

**NON-DELTA  
2018  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2017-06**

**October 2017**



## Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2018 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

## Acknowledgments

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

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

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

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

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# 2018 Planning Budgets

## Budgets for Agricultural Enterprises

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

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

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

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

## Methods and Procedures

### Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage. 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 2017. (Appendix Tables 1, 2, and 3).

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

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

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

### Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

### Estimates of Fixed Costs

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

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

where:

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

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

where:

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



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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

### Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2017 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

### Irrigation Costs

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

### Net Returns

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



## Enterprise Budgets

Table 1.A Estimated costs per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT  | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
|                          |       | dollars |           | dollars |           |
| DIRECT EXPENSES          |       |         |           |         |           |
| HARVEST AIDS             |       |         |           |         |           |
| Thidiazuron 4lb          | oz    | 1.50    | 2.3000    | 3.45    | _____     |
| Ethephon 6E              | pt    | 2.88    | 2.3125    | 6.66    | _____     |
| Tribufos 6lb             | pt    | 10.54   | 0.5000    | 5.27    | _____     |
| GINNING                  |       |         |           |         |           |
| Gin & Haul               | lb    | 0.11    | 1000.0000 | 110.00  | _____     |
| FERTILIZERS              |       |         |           |         |           |
| Potash (60% K2O)         | cwt   | 18.98   | 1.4000    | 26.57   | _____     |
| UAN (32%)                | gal   | 1.17    | 28.9332   | 33.85   | _____     |
| FUNGICIDES               |       |         |           |         |           |
| Cotton Seed Trt.         | acre  | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES               |       |         |           |         |           |
| Clarity                  | pt    | 11.55   | 0.5000    | 5.78    | _____     |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 128.0000  | 17.92   | _____     |
| Gramoxone SL 2.0         | oz    | 0.15    | 48.0000   | 7.20    | _____     |
| Cotoran                  | pt    | 6.42    | 2.0000    | 12.84   | _____     |
| Dual Magnum              | pt    | 13.80   | 2.0000    | 27.60   | _____     |
| Diuron                   | pt    | 3.90    | 1.6000    | 6.24    | _____     |
| INSECTICIDES             |       |         |           |         |           |
| Acephate 90%             | lb    | 7.43    | 1.7500    | 13.00   | _____     |
| Bidrin 8EC               | oz    | 1.17    | 0.2000    | 0.23    | _____     |
| Centric 40WG             | oz    | 5.38    | 2.0000    | 10.76   | _____     |
| IncidentalPestTrt\$22    | acre  | 22.00   | 1.0000    | 22.00   | _____     |
| SEED/PLANTS              |       |         |           |         |           |
| Cotton Seed B2XF         | thous | 3.00    | 45.0000   | 135.00  | _____     |
| GROWTH REGULATORS        |       |         |           |         |           |
| Mepiquat Chloride        | oz    | 0.07    | 32.0000   | 2.24    | _____     |
| ADJUVANTS                |       |         |           |         |           |
| Surfactant               | pt    | 3.28    | 0.4000    | 1.31    | _____     |
| CUSTOM FERTILIZE         |       |         |           |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE          |       |         |           |         |           |
| Eradication              | acre  | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME              |       |         |           |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660    | 30.64   | _____     |
| CROP CONSULTANT          |       |         |           |         |           |
| Cotton Consultant        | acre  | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                |       |         |           |         |           |
| Soil Test                | acre  | 10.00   | 0.3330    | 3.33    | _____     |
| OPERATOR LABOR           |       |         |           |         |           |
| Tractors                 | hour  | 13.51   | 0.9288    | 12.56   | _____     |
| Self-Propelled           | hour  | 13.51   | 0.3397    | 4.61    | _____     |
| HAND LABOR               |       |         |           |         |           |
| Implements               | hour  | 9.06    | 0.3579    | 3.24    | _____     |
| Self-Propelled           | hour  | 9.06    | 0.2560    | 2.32    | _____     |
| UNALLOCATED LABOR        |       |         |           |         |           |
|                          | hour  | 13.50   | 1.0149    | 13.71   | _____     |
| DIESEL FUEL              |       |         |           |         |           |
| Tractors                 | gal   | 1.80    | 9.0841    | 16.35   | _____     |
| Self-Propelled           | gal   | 1.80    | 4.6559    | 8.42    | _____     |
| REPAIR & MAINTENANCE     |       |         |           |         |           |
| Implements               | acre  | 10.43   | 1.0000    | 10.43   | _____     |
| Tractors                 | acre  | 5.01    | 1.0000    | 5.01    | _____     |
| Self-Propelled           | acre  | 14.23   | 1.0000    | 14.23   | _____     |
| INTEREST ON OP. CAP.     | acre  | 12.43   | 1.0000    | 12.43   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |           | 621.72  | _____     |
| FIXED EXPENSES           |       |         |           |         |           |
| Implements               | acre  | 16.13   | 1.0000    | 16.13   | _____     |
| Tractors                 | acre  | 31.62   | 1.0000    | 31.62   | _____     |
| Self-Propelled           | acre  | 60.80   | 1.0000    | 60.80   | _____     |
| TOTAL FIXED EXPENSES     |       |         |           | 108.55  | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |           | 730.27  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 1.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
|  |      | dollars |           | dollars |           |
| INCOME                                 |      |         |           |         |           |
| Cotton Lint                            | lb   | 0.66    | 1000.0000 | 660.00  | _____     |
| Cotton Seed                            | lb   | 0.10    | 1350.0000 | 135.00  | _____     |
|  |      |         |           | -----   |           |
| TOTAL INCOME                           |      |         |           | 795.00  | _____     |
| DIRECT EXPENSES                        |      |         |           |         |           |
| HARVEST AIDS                           | acre | 15.38   | 1.0000    | 15.38   | _____     |
| GINNING                                | acre | 110.00  | 1.0000    | 110.00  | _____     |
| FERTILIZERS                            | acre | 60.43   | 1.0000    | 60.43   | _____     |
| FUNGICIDES                             | acre | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES                             | acre | 77.58   | 1.0000    | 77.58   | _____     |
| INSECTICIDES                           | acre | 45.99   | 1.0000    | 45.99   | _____     |
| SEED/PLANTS                            | acre | 135.00  | 1.0000    | 135.00  | _____     |
| GROWTH REGULATORS                      | acre | 2.24    | 1.0000    | 2.24    | _____     |
| ADJUVANTS                              | acre | 1.32    | 1.0000    | 1.32    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE                        | acre | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000    | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000    | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.6139    | 5.56    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.2686    | 17.17   | _____     |
| UNALLOCATED LABOR                      | hour | 13.50   | 1.0149    | 13.71   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 13.7400   | 24.77   | _____     |
| REPAIR & MAINTENANCE                   | acre | 29.67   | 1.0000    | 29.67   | _____     |
| INTEREST ON OP. CAP.                   | acre | 12.43   | 1.0000    | 12.43   | _____     |
|  |      |         |           | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |           | 621.72  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |           | 173.28  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |           |         |           |
|  |      |         |           | 108.55  | _____     |
|  |      |         |           | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |           | 730.27  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |           | 64.73   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.C Estimated resource use for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours-----               |               |                    |              |               |     |                 |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.6660          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.4000          |           |               |                |                |
| Bed-Paratill Fold             | 8R-38         | MFWD 190           | 0.080        | 1.00          | Nov |                 | 0.08      | 0.08          | 0.08           | 0.06           |
| Bed/Disk (Hipper)Rd           | 8R-38         | MFWD 190           | 0.074        | 0.50          | Nov |                 | 0.03      | 0.03          | 0.03           | 0.02           |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Mar |                 |           | 0.01          | 0.02           | 0.01           |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Fert Appl (Liquid)            | 8R-38         | MFWD 190           | 0.077        | 1.00          | Apr |                 | 0.07      | 0.07          | 0.11           | 0.06           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Row Cond Rigid                | 26'           | MFWD 190           | 0.059        | 1.00          | May |                 | 0.05      | 0.05          | 0.05           | 0.04           |
| Plant - Folding               | 8R-38         | MFWD 190           | 0.074        | 1.00          | May |                 | 0.07      | 0.07          | 0.14           | 0.05           |
| Cotton Seed B2XF              | thous         |                    |              |               |     | 45.0000         |           |               |                |                |
| Cotton Seed Trt.              | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Cotoran                       | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Cotton Consultant             | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Eradication                   | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.2500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Bidrin 8EC                    | oz            |                    |              |               |     | 0.2000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Centric 40WG                  | oz            |                    |              |               |     | 2.0000          |           |               |                |                |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Fert Appl (Liquid)            | 8R-38         | MFWD 190           | 0.077        | 1.00          | Jun |                 | 0.07      | 0.07          | 0.11           | 0.06           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Spray (Direct/Layby)          | 8R-38         | MFWD 190           | 0.066        | 1.00          | Jul |                 | 0.06      | 0.06          | 0.10           | 0.05           |
| Diuron                        | pt            |                    |              |               |     | 1.6000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Jul |                 |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        |               |     |                 |           | 0.01          | 0.02           | 0.01           |
| IncidentalPestTrt\$22         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |           | 0.01          | 0.02           | 0.01           |
| Thidiazuron 4lb               | oz            |                    |              |               |     | 2.3000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.50          | Sep |                 |           | 0.00          | 0.01           | 0.00           |
| Tribufos 6lb                  | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 0.3125          |           |               |                |                |
| Cotton Picker                 | 6R-38(355)    |                    | 0.172        | 1.00          | Oct |                 |           | 0.17          | 0.34           | 0.13           |
| Boll Buggy                    | 6R-38(355)    | MFWD 190           | 0.172        | 1.00          | Oct |                 | 0.17      | 0.17          | 0.17           | 0.13           |
| Module Builder                | 6R-38(355)    | MFWD 190           | 0.172        | 1.00          | Oct |                 | 0.17      | 0.17          | 0.34           | 0.13           |
| Gin & Haul                    | lb            |                    |              | 1.00          | Oct | 1000.0000       |           |               |                |                |
| Stalk Shredder-Flail          | 15'           | MFWD 190           | 0.110        | 1.00          | Oct |                 | 0.11      | 0.11          | 0.11           | 0.08           |
| TOTALS                        |               |                    |              |               |     |                 | 1.26      | 0.92          | 1.88           | 1.01           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |        |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |        |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.16   | 3.49          |               | 3.49   |
| Lime (Spread)                 | ton           | 30.64                 |       |       |       |       |       | 1.46   | 32.10         |               | 32.10  |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.36   | 7.86          |               | 7.86   |
| Potash (60% K2O)              | cwt           | 26.57                 |       |       |       |       |       | 1.26   | 27.83         |               | 27.83  |
| Bed-Paratill Fold             | 8R-38         |                       | 1.42  | 2.03  | 1.96  |       |       | 0.26   | 5.67          | 5.50          | 11.17  |
| Bed/Disk (Hipper)Rd           | 8R-38         |                       | 0.65  | 0.34  | 0.90  |       |       | 0.09   | 1.98          | 1.64          | 3.62   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.03   | 1.01          | 1.20          | 2.21   |
| Clarity                       | pt            | 5.78                  |       |       |       |       |       | 0.18   | 5.96          |               | 5.96   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.14   | 4.62          |               | 4.62   |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.02   | 0.68          |               | 0.68   |
| Fert Appl (Liquid)            | 8R-38         |                       | 1.37  | 1.37  | 2.24  |       |       | 0.14   | 5.12          | 3.71          | 8.83   |
| UAN (32%)                     | gal           | 16.93                 |       |       |       |       |       | 0.47   | 17.40         |               | 17.40  |
| Row Cond Rigid                | 26'           |                       | 1.05  | 0.55  | 1.46  |       |       | 0.07   | 3.13          | 3.00          | 6.13   |
| Plant - Folding               | 8R-38         |                       | 1.31  | 1.70  | 2.50  |       |       | 0.13   | 5.64          | 5.03          | 10.67  |
| Cotton Seed B2XF              | thous         | 135.00                |       |       |       |       |       | 3.21   | 138.21        |               | 138.21 |
| Cotton Seed Trt.              | acre          | 20.00                 |       |       |       |       |       | 0.48   | 20.48         |               | 20.48  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.17   | 7.37          |               | 7.37   |
| Cotoran                       | pt            | 12.84                 |       |       |       |       |       | 0.30   | 13.14         |               | 13.14  |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.02   | 0.68          |               | 0.68   |
| Cotton Consultant             | acre          | 8.00                  |       |       |       |       |       | 0.19   | 8.19          |               | 8.19   |
| Eradication                   | acre          | 1.00                  |       |       |       |       |       | 0.02   | 1.02          |               | 1.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |       |       |       |       |       | 0.33   | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          |               | 4.59   |
| Acephate 90%                  | lb            | 1.86                  |       |       |       |       |       | 0.04   | 1.90          |               | 1.90   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |       |       |       |       |       | 0.33   | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          |               | 4.59   |
| Bidrin 8EC                    | oz            | 0.23                  |       |       |       |       |       | 0.01   | 0.24          |               | 0.24   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Centric 40WG                  | oz            | 10.76                 |       |       |       |       |       | 0.21   | 10.97         |               | 10.97  |
| Mepiquat Chloride             | oz            | 1.12                  |       |       |       |       |       | 0.02   | 1.14          |               | 1.14   |
| Fert Appl (Liquid)            | 8R-38         |                       | 1.37  | 1.37  | 2.24  |       |       | 0.10   | 5.08          | 3.71          | 8.79   |
| UAN (32%)                     | gal           | 16.93                 |       |       |       |       |       | 0.34   | 17.27         |               | 17.27  |
| Spray (Direct/Layby)          | 8R-38         |                       | 1.18  | 0.70  | 1.92  |       |       | 0.06   | 3.86          | 2.69          | 6.55   |
| Diuron                        | pt            | 6.24                  |       |       |       |       |       | 0.10   | 6.34          |               | 6.34   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.07   | 4.55          |               | 4.55   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Mepiquat Chloride             | oz            | 1.12                  |       |       |       |       |       | 0.02   | 1.14          |               | 1.14   |
| Acephate 90%                  | lb            | 5.57                  |       |       |       |       |       | 0.09   | 5.66          |               | 5.66   |
| Incidental Pest               |               |                       |       |       |       |       |       |        |               |               |        |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| IncidentalPestTrt\$22         | acre          | 22.00                 |       |       |       |       |       | 0.35   | 22.35         |               | 22.35  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Acephate 90%                  | lb            | 5.57                  |       |       |       |       |       | 0.07   | 5.64          |               | 5.64   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Thidiazuron 4lb               | oz            | 3.45                  |       |       |       |       |       | 0.03   | 3.48          |               | 3.48   |
| Ethephon 6E                   | pt            | 5.76                  |       |       |       |       |       | 0.05   | 5.81          |               | 5.81   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.14  | 0.09  | 0.26  |       |       |        | 0.49          | 0.60          | 1.09   |
| Tribufos 6lb                  | pt            | 5.27                  |       |       |       |       |       | 0.04   | 5.31          |               | 5.31   |
| Ethephon 6E                   | pt            | 0.90                  |       |       |       |       |       | 0.01   | 0.91          |               | 0.91   |
| Cotton Picker                 | 6R-38(355)    |                       | 5.67  | 12.52 | 5.75  |       |       | 0.09   | 24.03         | 49.40         | 73.43  |
| Boll Buggy                    | 6R-38(355)    |                       | 3.03  | 2.24  | 4.19  |       |       | 0.04   | 9.50          | 8.54          | 18.04  |
| Module Builder                | 6R-38(355)    |                       | 3.03  | 2.42  | 5.75  |       |       | 0.04   | 11.24         | 8.91          | 20.15  |
| Gin & Haul                    | lb            | 110.00                |       |       |       |       |       | 0.44   | 110.44        |               | 110.44 |
| Stalk Shredder-Flail          | 15'           |                       | 1.94  | 2.72  | 2.68  |       |       | 0.03   | 7.37          | 5.02          | 12.39  |
| TOTALS                        |               | 518.41                | 24.77 | 29.67 | 36.44 | 0.00  | 12.43 | 621.72 | 108.55        | 730.27        |        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 1.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 795.00 |
| DIRECT EXPENSES       |        |        |        |        |        |         |         |         |         |         |         |        |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.38   | 0.00   |
| GINNING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 110.00 |
| FERTILIZERS           | 26.57  | 0.00   | 0.00   | 0.00   | 0.00   | 16.93   | 0.00    | 16.93   | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 20.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 10.26  | 0.00    | 56.60   | 0.00    | 10.72   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 2.09    | 10.76   | 27.57   | 5.57    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 135.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| GROWTH REGULATORS     | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.12    | 1.12    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.66   | 0.00    | 0.66    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ERADICATION FEE       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 1.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 8.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 2.86   | 0.00   | 0.00   | 0.00   | 0.51   | 2.24    | 5.49    | 2.75    | 2.94    | 0.51    | 0.77    | 18.37  |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 2.07   | 0.00   | 0.00   | 0.00   | 0.29   | 1.37    | 3.23    | 1.66    | 1.76    | 0.29    | 0.43    | 13.67  |
| REPAIR & MAINTENANCE  | 2.37   | 0.00   | 0.00   | 0.00   | 0.18   | 1.37    | 2.79    | 1.55    | 1.06    | 0.18    | 0.27    | 19.90  |
| INTEREST ON OP. CAP.  | 3.59   | 0.00   | 0.00   | 0.00   | 0.37   | 0.61    | 5.58    | 0.69    | 0.73    | 0.08    | 0.14    | 0.64   |
| TOTAL DIRECT EXPENSES | 78.93  | 0.00   | 0.00   | 0.00   | 12.27  | 22.52   | 240.44  | 35.46   | 45.90   | 6.63    | 16.99   | 162.58 |
| NET INCOME            | -78.93 | 0.00   | 0.00   | 0.00   | -12.27 | -22.52  | -240.44 | -35.46  | -45.90  | -6.63   | -16.99  | 632.42 |
| NET INCOME TO DATE    | -78.93 | -78.93 | -78.93 | -78.93 | -91.20 | -113.72 | -354.16 | -389.62 | -435.52 | -442.15 | -459.14 | 173.28 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| PRODUCT     |         |      | PERCENT       |              |              |              |              |              |             |             |             |             |             |
|-------------|---------|------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
|             |         |      | 75            | 80           | 85           | 90           | 95           | 100          | 105         | 110         | 115         | 120         | 125         |
|             |         |      | PRODUCT PRICE |              |              |              |              |              |             |             |             |             |             |
| Cotton Lint |         |      | 0.49          | 0.52         | 0.56         | 0.59         | 0.62         | 0.66         | 0.69        | 0.72        | 0.75        | 0.79        | 0.82        |
| PERCENT     | YIELD   | UNIT | dollars       |              |              |              |              |              |             |             |             |             |             |
| 50          | 500.00  | lb   | -184<br>-292  | -167<br>-276 | -151<br>-259 | -134<br>-243 | -118<br>-226 | -101<br>-210 | -85<br>-193 | -68<br>-177 | -52<br>-160 | -35<br>-144 | -19<br>-127 |
| 60          | 600.00  | lb   | -145<br>-254  | -125<br>-234 | -105<br>-214 | -86<br>-194  | -66<br>-174  | -46<br>-155  | -26<br>-135 | -6<br>-115  | 12<br>-95   | 32<br>-75   | 52<br>-56   |
| 70          | 700.00  | lb   | -107<br>-215  | -83<br>-192  | -60<br>-169  | -37<br>-146  | -14<br>-123  | 8<br>-100    | 31<br>-77   | 54<br>-53   | 77<br>-30   | 100<br>-7   | 123<br>15   |
| 80          | 800.00  | lb   | -68<br>-177   | -42<br>-150  | -15<br>-124  | 10<br>-97    | 36<br>-71    | 63<br>-45    | 89<br>-18   | 116<br>7    | 142<br>34   | 168<br>60   | 195<br>86   |
| 90          | 900.00  | lb   | -30<br>-138   | -0<br>-109   | 29<br>-79    | 58<br>-49    | 88<br>-19    | 118<br>9     | 148<br>39   | 177<br>69   | 207<br>98   | 237<br>128  | 266<br>158  |
| 100         | 1000.00 | lb   | 8<br>-100     | 41<br>-67    | 74<br>-34    | 107<br>-1    | 140<br>31    | 173<br>64    | 206<br>97   | 239<br>130  | 272<br>163  | 305<br>196  | 338<br>229  |
| 110         | 1100.00 | lb   | 46<br>-61     | 83<br>-25    | 119<br>10    | 155<br>47    | 191<br>83    | 228<br>119   | 264<br>155  | 300<br>192  | 337<br>228  | 373<br>264  | 409<br>301  |
| 120         | 1200.00 | lb   | 85<br>-23     | 124<br>16    | 164<br>55    | 203<br>95    | 243<br>135   | 283<br>174   | 322<br>214  | 362<br>253  | 401<br>293  | 441<br>333  | 481<br>372  |
| 130         | 1300.00 | lb   | 123<br>15     | 166<br>57    | 209<br>100   | 252<br>143   | 295<br>186   | 338<br>229   | 381<br>272  | 423<br>315  | 466<br>358  | 509<br>401  | 552<br>444  |
| 140         | 1400.00 | lb   | 162<br>53     | 208<br>99    | 254<br>145   | 300<br>192   | 346<br>238   | 393<br>284   | 439<br>330  | 485<br>376  | 531<br>423  | 577<br>469  | 624<br>515  |
| 150         | 1500.00 | lb   | 200<br>92     | 250<br>141   | 299<br>191   | 349<br>240   | 398<br>290   | 448<br>339   | 497<br>389  | 547<br>438  | 596<br>488  | 646<br>537  | 695<br>587  |

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 2017 input prices.

Table 2.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT  | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
|                          |       | dollars |          | dollars |           |
| DIRECT EXPENSES          |       |         |          |         |           |
| HARVEST AIDS             |       |         |          |         |           |
| Thidiazuron 4lb          | oz    | 1.50    | 2.3000   | 3.45    | _____     |
| Ethephon 6E              | pt    | 2.88    | 2.3125   | 6.66    | _____     |
| Tribufos 6lb             | pt    | 10.54   | 0.5000   | 5.27    | _____     |
| GINNING                  |       |         |          |         |           |
| Gin & Haul               | lb    | 0.11    | 900.0000 | 99.00   | _____     |
| FERTILIZERS              |       |         |          |         |           |
| Potash (60% K2O)         | cwt   | 18.98   | 1.4000   | 26.57   | _____     |
| UAN (32%)                | gal   | 1.17    | 18.4000  | 21.53   | _____     |
| FUNGICIDES               |       |         |          |         |           |
| Cotton Seed Trt.         | acre  | 20.00   | 1.0000   | 20.00   | _____     |
| HERBICIDES               |       |         |          |         |           |
| Clarity                  | pt    | 11.55   | 0.5000   | 5.78    | _____     |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 128.0000 | 17.92   | _____     |
| Gramoxone SL 2.0         | oz    | 0.15    | 48.0000  | 7.20    | _____     |
| Cotoran                  | pt    | 6.42    | 2.0000   | 12.84   | _____     |
| Dual Magnum              | pt    | 13.80   | 2.0000   | 27.60   | _____     |
| Diuron                   | pt    | 3.90    | 1.6000   | 6.24    | _____     |
| INSECTICIDES             |       |         |          |         |           |
| Acephate 90%             | lb    | 7.43    | 1.7500   | 13.00   | _____     |
| Bidrin 8EC               | oz    | 1.17    | 0.2000   | 0.23    | _____     |
| Centric 40WG             | oz    | 5.38    | 2.0000   | 10.76   | _____     |
| IncidentalPestTrt\$22    | acre  | 22.00   | 1.0000   | 22.00   | _____     |
| SEED/PLANTS              |       |         |          |         |           |
| Cotton Seed B2XF         | thous | 3.00    | 45.0000  | 135.00  | _____     |
| GROWTH REGULATORS        |       |         |          |         |           |
| Mepiquat Chloride        | oz    | 0.07    | 32.0000  | 2.24    | _____     |
| ADJUVANTS                |       |         |          |         |           |
| Surfactant               | pt    | 3.28    | 0.4000   | 1.31    | _____     |
| CUSTOM FERTILIZE         |       |         |          |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000   | 7.50    | _____     |
| ERADICATION FEE          |       |         |          |         |           |
| Eradication              | acre  | 1.00    | 1.0000   | 1.00    | _____     |
| CUSTOM LIME              |       |         |          |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |       |         |          |         |           |
| Cotton Consultant        | acre  | 8.00    | 1.0000   | 8.00    | _____     |
| SOIL TEST                |       |         |          |         |           |
| Soil Test                | acre  | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |       |         |          |         |           |
| Tractors                 | hour  | 13.51   | 0.7365   | 9.96    | _____     |
| Self-Propelled           | hour  | 13.51   | 0.3397   | 4.61    | _____     |
| HAND LABOR               |       |         |          |         |           |
| Implements               | hour  | 9.06    | 0.3222   | 2.91    | _____     |
| Self-Propelled           | hour  | 9.06    | 0.2560   | 2.32    | _____     |
| UNALLOCATED LABOR        |       |         |          |         |           |
|                          | hour  | 13.50   | 0.8610   | 11.63   | _____     |
| DIESEL FUEL              |       |         |          |         |           |
| Tractors                 | gal   | 1.80    | 7.2030   | 12.97   | _____     |
| Self-Propelled           | gal   | 1.80    | 4.6559   | 8.42    | _____     |
| REPAIR & MAINTENANCE     |       |         |          |         |           |
| Implements               | acre  | 7.94    | 1.0000   | 7.94    | _____     |
| Tractors                 | acre  | 3.97    | 1.0000   | 3.97    | _____     |
| Self-Propelled           | acre  | 14.23   | 1.0000   | 14.23   | _____     |
| INTEREST ON OP. CAP.     | acre  | 11.58   | 1.0000   | 11.58   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |          | 585.62  | _____     |
| FIXED EXPENSES           |       |         |          |         |           |
| Implements               | acre  | 12.30   | 1.0000   | 12.30   | _____     |
| Tractors                 | acre  | 25.07   | 1.0000   | 25.07   | _____     |
| Self-Propelled           | acre  | 60.80   | 1.0000   | 60.80   | _____     |
| TOTAL FIXED EXPENSES     |       |         |          | 98.17   | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |          | 683.79  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

Table 2.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
|  |      | dollars |           | dollars |           |
| INCOME                                 |      |         |           |         |           |
| Cotton Lint                            | lb   | 0.66    | 900.0000  | 594.00  | _____     |
| Cotton Seed                            | lb   | 0.10    | 1215.0000 | 121.50  | _____     |
|  |      |         |           | -----   |           |
| TOTAL INCOME                           |      |         |           | 715.50  | _____     |
| DIRECT EXPENSES                        |      |         |           |         |           |
| HARVEST AIDS                           | acre | 15.38   | 1.0000    | 15.38   | _____     |
| GINNING                                | acre | 99.00   | 1.0000    | 99.00   | _____     |
| FERTILIZERS                            | acre | 48.10   | 1.0000    | 48.10   | _____     |
| FUNGICIDES                             | acre | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES                             | acre | 77.58   | 1.0000    | 77.58   | _____     |
| INSECTICIDES                           | acre | 45.99   | 1.0000    | 45.99   | _____     |
| SEED/PLANTS                            | acre | 135.00  | 1.0000    | 135.00  | _____     |
| GROWTH REGULATORS                      | acre | 2.24    | 1.0000    | 2.24    | _____     |
| ADJUVANTS                              | acre | 1.32    | 1.0000    | 1.32    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE                        | acre | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000    | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000    | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.5782    | 5.23    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.0763    | 14.57   | _____     |
| UNALLOCATED LABOR                      | hour | 13.50   | 0.8610    | 11.63   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 11.8590   | 21.39   | _____     |
| REPAIR & MAINTENANCE                   | acre | 26.14   | 1.0000    | 26.14   | _____     |
| INTEREST ON OP. CAP.                   | acre | 11.58   | 1.0000    | 11.58   | _____     |
|  |      |         |           | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |           | 585.62  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |           | 129.88  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |           |         |           |
|  |      |         |           | 98.17   | _____     |
|  |      |         |           | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |           | 683.79  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |           | 31.71   | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.C Estimated resource use for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.6660          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.4000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Mar |                 |           | 0.01          | 0.02           | 0.01           |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Row Cond Rigid                | 26'           | MFWD 190           | 0.059        | 1.00          | May |                 | 0.05      | 0.05          | 0.05           | 0.04           |
| NT Plant-Folding              | 8R-38         | MFWD 190           | 0.077        | 1.00          | May |                 | 0.07      | 0.07          | 0.15           | 0.06           |
| Cotton Seed B2XF              | thous         |                    |              |               |     | 45.0000         |           |               |                |                |
| Cotton Seed Trt.              | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Cotoran                       | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Cotton Consultant             | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Eradication                   | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.2500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Bidrin 8EC                    | oz            |                    |              |               |     | 0.2000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Centric 40WG                  | oz            |                    |              |               |     | 2.0000          |           |               |                |                |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Fert Appl (Liquid)            | 8R-38         | MFWD 190           | 0.077        | 1.00          | Jun |                 | 0.07      | 0.07          | 0.11           | 0.06           |
| UAN (32%)                     | gal           |                    |              |               |     | 18.4000         |           |               |                |                |
| Spray (Direct/Layby)          | 8R-38         | MFWD 190           | 0.066        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.10           | 0.05           |
| Diuron                        | pt            |                    |              |               |     | 1.6000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Jul |                 |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        |               |     |                 |           | 0.01          | 0.02           | 0.01           |
| IncidentalPestTrt\$22         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |           | 0.01          | 0.02           | 0.01           |
| Thidiazuron 4lb               | oz            |                    |              |               |     | 2.3000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.50          | Sep |                 |           | 0.00          | 0.01           | 0.00           |
| Tribufos 6lb                  | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 0.3125          |           |               |                |                |
| Cotton Picker                 | 6R-38(355)    |                    | 0.172        | 1.00          | Oct |                 |           | 0.17          | 0.34           | 0.13           |
| Boll Buggy                    | 6R-38(355)    | MFWD 190           | 0.172        | 1.00          | Oct |                 | 0.17      | 0.17          | 0.17           | 0.13           |
| Module Builder                | 6R-38(355)    | MFWD 190           | 0.172        | 1.00          | Oct |                 | 0.17      | 0.17          | 0.34           | 0.13           |
| Gin & Haul                    | lb            |                    |              | 1.00          | Oct | 900.0000        |           |               |                |                |
| Stalk Shredder-Flail          | 15'           | MFWD 190           | 0.110        | 1.00          | Oct |                 | 0.11      | 0.11          | 0.11           | 0.08           |
| TOTALS                        |               |                    |              |               |     |                 | 1.07      | 0.73          | 1.65           | 0.86           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |        |       |       |       |       |       | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|--------|-------|-------|-------|-------|-------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL   | R&M   | LABOR | LEASE | INTER | TOTAL |               |               |        |
| -----dollars-----             |               |                       |        |       |       |       |       |       |               |               |        |
| Soil Test                     | acre          | 3.33                  |        |       |       |       |       | 0.16  | 3.49          |               | 3.49   |
| Lime (Spread)                 | ton           | 30.64                 |        |       |       |       |       | 1.46  | 32.10         |               | 32.10  |
| Custom Apply Fert             | acre          | 7.50                  |        |       |       |       |       | 0.36  | 7.86          |               | 7.86   |
| Potash (60% K2O)              | cwt           | 26.57                 |        |       |       |       |       | 1.26  | 27.83         |               | 27.83  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.03  | 1.01          | 1.20          | 2.21   |
| Clarity                       | pt            | 5.78                  |        |       |       |       |       | 0.18  | 5.96          |               | 5.96   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.14  | 4.62          |               | 4.62   |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Row Cond Rigid                | 26'           |                       | 1.05   | 0.55  | 1.46  |       |       | 0.07  | 3.13          | 3.00          | 6.13   |
| NT Plant-Folding              | 8R-38         |                       | 1.37   | 1.91  | 2.59  |       |       | 0.14  | 6.01          | 5.50          | 11.51  |
| Cotton Seed B2XF              | thous         | 135.00                |        |       |       |       |       | 3.21  | 138.21        |               | 138.21 |
| Cotton Seed Trt.              | acre          | 20.00                 |        |       |       |       |       | 0.48  | 20.48         |               | 20.48  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Gramoxone SL 2.0              | oz            | 7.20                  |        |       |       |       |       | 0.17  | 7.37          |               | 7.37   |
| Cotoran                       | pt            | 12.84                 |        |       |       |       |       | 0.30  | 13.14         |               | 13.14  |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Cotton Consultant             | acre          | 8.00                  |        |       |       |       |       | 0.19  | 8.19          |               | 8.19   |
| Eradication                   | acre          | 1.00                  |        |       |       |       |       | 0.02  | 1.02          |               | 1.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Acephate 90%                  | lb            | 1.86                  |        |       |       |       |       | 0.04  | 1.90          |               | 1.90   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Bidrin 8EC                    | oz            | 0.23                  |        |       |       |       |       | 0.01  | 0.24          |               | 0.24   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Centric 40WG                  | oz            | 10.76                 |        |       |       |       |       | 0.21  | 10.97         |               | 10.97  |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Fert Appl (Liquid)            | 8R-38         |                       | 1.37   | 1.37  | 2.24  |       |       | 0.10  | 5.08          | 3.71          | 8.79   |
| UAN (32%)                     | gal           | 21.53                 |        |       |       |       |       | 0.43  | 21.96         |               | 21.96  |
| Spray (Direct/Layby)          | 8R-38         |                       | 1.18   | 0.70  | 1.92  |       |       | 0.08  | 3.88          | 2.69          | 6.57   |
| Diuron                        | pt            | 6.24                  |        |       |       |       |       | 0.12  | 6.36          |               | 6.36   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.09  | 4.57          |               | 4.57   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.09  | 5.66          |               | 5.66   |
| Incidental Pest               |               |                       |        |       |       |       |       |       |               |               |        |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| IncidentalPestTrt\$22         | acre          | 22.00                 |        |       |       |       |       | 0.35  | 22.35         |               | 22.35  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.07  | 5.64          |               | 5.64   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Thidiazuron 4lb               | oz            | 3.45                  |        |       |       |       |       | 0.03  | 3.48          |               | 3.48   |
| Ethephon 6E                   | pt            | 5.76                  |        |       |       |       |       | 0.05  | 5.81          |               | 5.81   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.14   | 0.09  | 0.26  |       |       |       | 0.49          | 0.60          | 1.09   |
| Tribufos 6lb                  | pt            | 5.27                  |        |       |       |       |       | 0.04  | 5.31          |               | 5.31   |
| Ethephon 6E                   | pt            | 0.90                  |        |       |       |       |       | 0.01  | 0.91          |               | 0.91   |
| Cotton Picker                 | 6R-38(355)    |                       | 5.67   | 12.52 | 5.75  |       |       | 0.09  | 24.03         | 49.40         | 73.43  |
| Boll Buggy                    | 6R-38(355)    |                       | 3.03   | 2.24  | 4.19  |       |       | 0.04  | 9.50          | 8.54          | 18.04  |
| Module Builder                | 6R-38(355)    |                       | 3.03   | 2.42  | 5.75  |       |       | 0.04  | 11.24         | 8.91          | 20.15  |
| Gin & Haul                    | lb            | 99.00                 |        |       |       |       |       | 0.39  | 99.39         |               | 99.39  |
| Stalk Shredder-Flail          | 15'           |                       | 1.94   | 2.72  | 2.68  |       |       | 0.03  | 7.37          | 5.02          | 12.39  |
| TOTALS                        |               |                       | 495.08 | 21.39 | 26.14 | 31.43 | 0.00  | 11.58 | 585.62        | 98.17         | 683.79 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 715.50 |
| DIRECT EXPENSES       |        |        |        |        |        |        |         |         |         |         |         |        |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 15.38   | 0.00   |
| GINNING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 99.00  |
| FERTILIZERS           | 26.57  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 21.53   | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 20.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 10.26  | 0.00   | 56.60   | 10.72   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.09    | 10.76   | 27.57   | 5.57    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 135.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| GROWTH REGULATORS     | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 1.12    | 1.12    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.66   | 0.00   | 0.66    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ERADICATION FEE       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 8.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.51   | 0.00   | 5.58    | 4.67    | 1.02    | 0.51    | 0.77    | 18.37  |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.29   | 0.00   | 3.29    | 2.84    | 0.58    | 0.29    | 0.43    | 13.67  |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.18   | 0.00   | 3.00    | 2.25    | 0.36    | 0.18    | 0.27    | 19.90  |
| INTEREST ON OP. CAP.  | 3.24   | 0.00   | 0.00   | 0.00   | 0.37   | 0.00   | 5.59    | 1.07    | 0.50    | 0.08    | 0.14    | 0.59   |
| TOTAL DIRECT EXPENSES | 71.28  | 0.00   | 0.00   | 0.00   | 12.27  | 0.00   | 240.81  | 54.96   | 31.15   | 6.63    | 16.99   | 151.53 |
| NET INCOME            | -71.28 | 0.00   | 0.00   | 0.00   | -12.27 | 0.00   | -240.81 | -54.96  | -31.15  | -6.63   | -16.99  | 563.97 |
| NET INCOME TO DATE    | -71.28 | -71.28 | -71.28 | -71.28 | -83.55 | -83.55 | -324.36 | -379.32 | -410.47 | -417.10 | -434.09 | 129.88 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| PRODUCT     | PERCENT       |      |         |      |      |      |      |      |      |      |      |      |      |
|-------------|---------------|------|---------|------|------|------|------|------|------|------|------|------|------|
|             | 75            | 80   | 85      | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  |      |      |
|             | PRODUCT PRICE |      |         |      |      |      |      |      |      |      |      |      |      |
| Cotton Lint | 0.49          | 0.52 | 0.56    | 0.59 | 0.62 | 0.66 | 0.69 | 0.72 | 0.75 | 0.79 | 0.82 |      |      |
| PERCENT     | YIELD         | UNIT | dollars |      |      |      |      |      |      |      |      |      |      |
| 50          | 450.00        | lb   | -191    | -176 | -161 | -147 | -132 | -117 | -102 | -87  | -72  | -58  | -43  |
|             |               |      | -289    | -274 | -260 | -245 | -230 | -215 | -200 | -185 | -171 | -156 | -141 |
| 60          | 540.00        | lb   | -157    | -139 | -121 | -103 | -85  | -67  | -50  | -32  | -14  | 3    | 21   |
|             |               |      | -255    | -237 | -219 | -201 | -183 | -166 | -148 | -130 | -112 | -94  | -77  |
| 70          | 630.00        | lb   | -122    | -101 | -80  | -60  | -39  | -18  | 2    | 23   | 43   | 64   | 85   |
|             |               |      | -220    | -199 | -179 | -158 | -137 | -116 | -95  | -75  | -54  | -33  | -12  |
| 80          | 720.00        | lb   | -87     | -64  | -40  | -16  | 7    | 30   | 54   | 78   | 102  | 125  | 149  |
|             |               |      | -186    | -162 | -138 | -114 | -90  | -67  | -43  | -19  | 4    | 27   | 51   |
| 90          | 810.00        | lb   | -53     | -26  | 0    | 26   | 53   | 80   | 107  | 133  | 160  | 187  | 214  |
|             |               |      | -151    | -124 | -97  | -71  | -44  | -17  | 8    | 35   | 62   | 89   | 115  |
| 100         | 900.00        | lb   | -18     | 11   | 40   | 70   | 100  | 129  | 159  | 189  | 218  | 248  | 278  |
|             |               |      | -116    | -87  | -57  | -27  | 2    | 31   | 61   | 91   | 120  | 150  | 180  |
| 110         | 990.00        | lb   | 15      | 48   | 81   | 114  | 146  | 179  | 212  | 244  | 277  | 310  | 342  |
|             |               |      | -82     | -49  | -16  | 15   | 48   | 81   | 113  | 146  | 179  | 211  | 244  |
| 120         | 1080.00       | lb   | 50      | 86   | 121  | 157  | 193  | 228  | 264  | 300  | 335  | 371  | 407  |
|             |               |      | -47     | -11  | 23   | 59   | 94   | 130  | 166  | 201  | 237  | 273  | 308  |
| 130         | 1170.00       | lb   | 85      | 123  | 162  | 201  | 239  | 278  | 316  | 355  | 394  | 432  | 471  |
|             |               |      | -12     | 25   | 64   | 102  | 141  | 180  | 218  | 257  | 295  | 334  | 373  |
| 140         | 1260.00       | lb   | 119     | 161  | 202  | 244  | 286  | 327  | 369  | 410  | 452  | 494  | 535  |
|             |               |      | 21      | 63   | 104  | 146  | 187  | 229  | 271  | 312  | 354  | 395  | 437  |
| 150         | 1350.00       | lb   | 154     | 198  | 243  | 288  | 332  | 377  | 421  | 466  | 510  | 555  | 599  |
|             |               |      | 56      | 100  | 145  | 189  | 234  | 279  | 323  | 368  | 412  | 457  | 501  |

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 2017 input prices.

Table 3.A Estimated costs per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT  | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
|                          |       | dollars |           | dollars |           |
| DIRECT EXPENSES          |       |         |           |         |           |
| HARVEST AIDS             |       |         |           |         |           |
| Thidiazuron 4lb          | oz    | 1.50    | 2.3000    | 3.45    | _____     |
| Ethephon 6E              | pt    | 2.88    | 2.3125    | 6.66    | _____     |
| Tribufos 6lb             | pt    | 10.54   | 0.5000    | 5.27    | _____     |
| GINNING                  |       |         |           |         |           |
| Gin & Haul               | lb    | 0.11    | 1000.0000 | 110.00  | _____     |
| FERTILIZERS              |       |         |           |         |           |
| Potash (60% K2O)         | cwt   | 18.98   | 1.4000    | 26.57   | _____     |
| UAN (32%)                | gal   | 1.17    | 28.9332   | 33.85   | _____     |
| FUNGICIDES               |       |         |           |         |           |
| Cotton Seed Trt.         | acre  | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES               |       |         |           |         |           |
| Clarity                  | pt    | 11.55   | 0.5000    | 5.78    | _____     |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 128.0000  | 17.92   | _____     |
| Gramoxone SL 2.0         | oz    | 0.15    | 48.0000   | 7.20    | _____     |
| Cotoran                  | pt    | 6.42    | 2.0000    | 12.84   | _____     |
| Dual Magnum              | pt    | 13.80   | 2.0000    | 27.60   | _____     |
| Diuron                   | pt    | 3.90    | 1.6000    | 6.24    | _____     |
| INSECTICIDES             |       |         |           |         |           |
| Acephate 90%             | lb    | 7.43    | 1.7500    | 13.00   | _____     |
| Bidrin 8EC               | oz    | 1.17    | 0.2000    | 0.23    | _____     |
| Centric 40WG             | oz    | 5.38    | 2.0000    | 10.76   | _____     |
| IncidentalPestTrt\$22    | acre  | 22.00   | 1.0000    | 22.00   | _____     |
| SEED/PLANTS              |       |         |           |         |           |
| Cotton Seed B2XF         | thous | 3.00    | 45.0000   | 135.00  | _____     |
| GROWTH REGULATORS        |       |         |           |         |           |
| Mepiquat Chloride        | oz    | 0.07    | 32.0000   | 2.24    | _____     |
| ADJUVANTS                |       |         |           |         |           |
| Surfactant               | pt    | 3.28    | 0.4000    | 1.31    | _____     |
| CUSTOM FERTILIZE         |       |         |           |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE          |       |         |           |         |           |
| Eradication              | acre  | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME              |       |         |           |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660    | 30.64   | _____     |
| CROP CONSULTANT          |       |         |           |         |           |
| Cotton Consultant        | acre  | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                |       |         |           |         |           |
| Soil Test                | acre  | 10.00   | 0.3330    | 3.33    | _____     |
| OPERATOR LABOR           |       |         |           |         |           |
| Tractors                 | hour  | 13.51   | 0.4268    | 5.77    | _____     |
| Self-Propelled           | hour  | 13.51   | 0.3397    | 4.61    | _____     |
| HAND LABOR               |       |         |           |         |           |
| Implements               | hour  | 9.06    | 0.1235    | 1.11    | _____     |
| Self-Propelled           | hour  | 9.06    | 0.2560    | 2.32    | _____     |
| UNALLOCATED LABOR        |       |         |           |         |           |
|                          | hour  | 13.51   | 0.6133    | 8.29    | _____     |
| DIESEL FUEL              |       |         |           |         |           |
| Tractors                 | gal   | 1.80    | 4.7451    | 8.54    | _____     |
| Self-Propelled           | gal   | 1.80    | 5.9419    | 10.73   | _____     |
| REPAIR & MAINTENANCE     |       |         |           |         |           |
| Implements               | acre  | 6.90    | 1.0000    | 6.90    | _____     |
| Tractors                 | acre  | 2.67    | 1.0000    | 2.67    | _____     |
| Self-Propelled           | acre  | 22.31   | 1.0000    | 22.31   | _____     |
| INTEREST ON OP. CAP.     | acre  | 12.19   | 1.0000    | 12.19   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |           | 603.85  | _____     |
| FIXED EXPENSES           |       |         |           |         |           |
| Implements               | acre  | 9.70    | 1.0000    | 9.70    | _____     |
| Tractors                 | acre  | 16.84   | 1.0000    | 16.84   | _____     |
| Self-Propelled           | acre  | 92.67   | 1.0000    | 92.67   | _____     |
| TOTAL FIXED EXPENSES     |       |         |           | 119.21  | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |           | 723.06  | _____     |

Note: Cost of production estimates are based on 2017 input prices.



Table 3.B Summary of estimated costs and returns per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
|  |      | dollars |           | dollars |           |
| INCOME                                 |      |         |           |         |           |
| Cotton Lint                            | lb   | 0.66    | 1000.0000 | 660.00  | _____     |
| Cotton Seed                            | lb   | 0.10    | 1350.0000 | 135.00  | _____     |
|  |      |         |           | -----   |           |
| TOTAL INCOME                           |      |         |           | 795.00  | _____     |
| DIRECT EXPENSES                        |      |         |           |         |           |
| HARVEST AIDS                           | acre | 15.38   | 1.0000    | 15.38   | _____     |
| GINNING                                | acre | 110.00  | 1.0000    | 110.00  | _____     |
| FERTILIZERS                            | acre | 60.43   | 1.0000    | 60.43   | _____     |
| FUNGICIDES                             | acre | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES                             | acre | 77.58   | 1.0000    | 77.58   | _____     |
| INSECTICIDES                           | acre | 45.99   | 1.0000    | 45.99   | _____     |
| SEED/PLANTS                            | acre | 135.00  | 1.0000    | 135.00  | _____     |
| GROWTH REGULATORS                      | acre | 2.24    | 1.0000    | 2.24    | _____     |
| ADJUVANTS                              | acre | 1.32    | 1.0000    | 1.32    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE                        | acre | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000    | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000    | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.3796    | 3.43    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.7666    | 10.38   | _____     |
| UNALLOCATED LABOR                      | hour | 13.51   | 0.6133    | 8.29    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 10.6871   | 19.27   | _____     |
| REPAIR & MAINTENANCE                   | acre | 31.88   | 1.0000    | 31.88   | _____     |
| INTEREST ON OP. CAP.                   | acre | 12.19   | 1.0000    | 12.19   | _____     |
|  |      |         |           | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |           | 603.85  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |           | 191.15  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |           |         |           |
|  |      |         |           | 119.21  | _____     |
|  |      |         |           | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |           | 723.06  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |           | 71.94   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 3.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours-----               |               |                    |              |               |     |                 |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.6660          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.4000          |           |               |                |                |
| Bed-Paratill Fold             | 12R-38        | MFWD 225           | 0.053        | 1.00          | Nov |                 | 0.05      | 0.05          | 0.05           | 0.04           |
| Bed/Disk (Hipper)             | 12R-38        | MFWD 225           | 0.049        | 0.50          | Nov |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Mar |                 |           | 0.01          | 0.02           | 0.01           |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Fert Appl (Liquid)            | 12R-38        | MFWD 225           | 0.051        | 1.00          | Apr |                 | 0.05      | 0.05          | 0.07           | 0.04           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Row Cond Folding              | 38'           | MFWD 225           | 0.040        | 1.00          | May |                 | 0.04      | 0.04          | 0.04           | 0.03           |
| Plant - Folding               | 12R-38        | MFWD 225           | 0.049        | 1.00          | May |                 | 0.04      | 0.04          | 0.09           | 0.03           |
| Cotton Seed B2XF              | thous         |                    |              |               |     | 45.0000         |           |               |                |                |
| Cotton Seed Trt.              | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Cotoran                       | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Cotton Consultant             | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Eradication                   | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.2500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Bidrin 8EC                    | oz            |                    |              |               |     | 0.2000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Centric 40WG                  | oz            |                    |              |               |     | 2.0000          |           |               |                |                |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Fert Appl (Liquid)            | 12R-38        | MFWD 225           | 0.051        | 1.00          | Jun |                 | 0.05      | 0.05          | 0.07           | 0.04           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Spray (Direct/Layby)          | 12R-38        | MFWD 225           | 0.044        | 1.00          | Jul |                 | 0.04      | 0.04          | 0.06           | 0.03           |
| Diuron                        | pt            |                    |              |               |     | 1.6000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Jul |                 |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        |               |     |                 |           | 0.01          | 0.02           | 0.01           |
| IncidentalPestTrt\$22         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |           | 0.01          | 0.02           | 0.01           |
| Thidiazuron 4lb               | oz            |                    |              |               |     | 2.3000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.50          | Sep |                 |           | 0.00          | 0.01           | 0.00           |
| Tribufos 6lb                  | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 0.3125          |           |               |                |                |
| Cotton Picker/Module          | 6R-38(500)    |                    | 0.172        | 1.00          | Oct |                 |           | 0.17          | 0.34           | 0.13           |
| Gin & Haul                    | lb            |                    |              | 1.00          | Oct | 1000.0000       |           |               |                |                |
| Stalk Shredder-Flail          | 15'           | MFWD 190           | 0.110        | 1.00          | Oct |                 | 0.11      | 0.11          | 0.11           | 0.08           |
| TOTALS                        |               |                    |              |               |     |                 | 0.76      | 0.42          | 1.14           | 0.61           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 3.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |        |       |       |       |       |       | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|--------|-------|-------|-------|-------|-------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL   | R&M   | LABOR | LEASE | INTER | TOTAL |               |               |        |
| -----dollars-----             |               |                       |        |       |       |       |       |       |               |               |        |
| Soil Test                     | acre          | 3.33                  |        |       |       |       |       | 0.16  | 3.49          |               | 3.49   |
| Lime (Spread)                 | ton           | 30.64                 |        |       |       |       |       | 1.46  | 32.10         |               | 32.10  |
| Custom Apply Fert             | acre          | 7.50                  |        |       |       |       |       | 0.36  | 7.86          |               | 7.86   |
| Potash (60% K2O)              | cwt           | 26.57                 |        |       |       |       |       | 1.26  | 27.83         |               | 27.83  |
| Bed-Paratill Fold             | 12R-38        |                       | 1.12   | 1.69  | 1.31  |       |       | 0.20  | 4.32          | 4.55          | 8.87   |
| Bed/Disk (Hipper)             | 12R-38        |                       | 0.51   | 0.34  | 0.60  |       |       | 0.07  | 1.52          | 1.50          | 3.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.03  | 1.01          | 1.20          | 2.21   |
| Clarity                       | pt            | 5.78                  |        |       |       |       |       | 0.18  | 5.96          |               | 5.96   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.14  | 4.62          |               | 4.62   |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Fert Appl (Liquid)            | 12R-38        |                       | 1.08   | 0.99  | 1.49  |       |       | 0.10  | 3.66          | 2.88          | 6.54   |
| UAN (32%)                     | gal           | 16.93                 |        |       |       |       |       | 0.47  | 17.40         |               | 17.40  |
| Row Cond Folding              | 38'           |                       | 0.85   | 0.54  | 0.99  |       |       | 0.06  | 2.44          | 2.82          | 5.26   |
| Plant - Folding               | 12R-38        |                       | 1.03   | 1.71  | 1.66  |       |       | 0.10  | 4.50          | 4.69          | 9.19   |
| Cotton Seed B2XF              | thous         | 135.00                |        |       |       |       |       | 3.21  | 138.21        |               | 138.21 |
| Cotton Seed Trt.              | acre          | 20.00                 |        |       |       |       |       | 0.48  | 20.48         |               | 20.48  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Gramoxone SL 2.0              | oz            | 7.20                  |        |       |       |       |       | 0.17  | 7.37          |               | 7.37   |
| Cotoran                       | pt            | 12.84                 |        |       |       |       |       | 0.30  | 13.14         |               | 13.14  |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Cotton Consultant             | acre          | 8.00                  |        |       |       |       |       | 0.19  | 8.19          |               | 8.19   |
| Eradication                   | acre          | 1.00                  |        |       |       |       |       | 0.02  | 1.02          |               | 1.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Acephate 90%                  | lb            | 1.86                  |        |       |       |       |       | 0.04  | 1.90          |               | 1.90   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Bidrin 8EC                    | oz            | 0.23                  |        |       |       |       |       | 0.01  | 0.24          |               | 0.24   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Centric 40WG                  | oz            | 10.76                 |        |       |       |       |       | 0.21  | 10.97         |               | 10.97  |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Fert Appl (Liquid)            | 12R-38        |                       | 1.08   | 0.99  | 1.49  |       |       | 0.07  | 3.63          | 2.88          | 6.51   |
| UAN (32%)                     | gal           | 16.93                 |        |       |       |       |       | 0.34  | 17.27         |               | 17.27  |
| Spray (Direct/Layby)          | 12R-38        |                       | 0.93   | 0.59  | 1.28  |       |       | 0.04  | 2.84          | 2.20          | 5.04   |
| Diuron                        | pt            | 6.24                  |        |       |       |       |       | 0.10  | 6.34          |               | 6.34   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.07  | 4.55          |               | 4.55   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.09  | 5.66          |               | 5.66   |
| Incidental Pest               |               |                       |        |       |       |       |       |       |               |               |        |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| IncidentalPestTrt\$22         | acre          | 22.00                 |        |       |       |       |       | 0.35  | 22.35         |               | 22.35  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.07  | 5.64          |               | 5.64   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Thidiazuron 4lb               | oz            | 3.45                  |        |       |       |       |       | 0.03  | 3.48          |               | 3.48   |
| Ethephon 6E                   | pt            | 5.76                  |        |       |       |       |       | 0.05  | 5.81          |               | 5.81   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.14   | 0.09  | 0.26  |       |       |       | 0.49          | 0.60          | 1.09   |
| Tribufos 6lb                  | pt            | 5.27                  |        |       |       |       |       | 0.04  | 5.31          |               | 5.31   |
| Ethephon 6E                   | pt            | 0.90                  |        |       |       |       |       | 0.01  | 0.91          |               | 0.91   |
| Cotton Picker/Module          | 6R-38(500)    |                       | 7.98   | 20.60 | 5.75  |       |       | 0.14  | 34.47         | 81.27         | 115.74 |
| Gin & Haul                    | lb            | 110.00                |        |       |       |       |       | 0.44  | 110.44        |               | 110.44 |
| Stalk Shredder-Flail          | 15'           |                       | 1.94   | 2.72  | 2.68  |       |       | 0.03  | 7.37          | 5.02          | 12.39  |
| TOTALS                        |               |                       | 518.41 | 19.27 | 31.88 | 22.10 | 0.00  | 12.19 | 603.85        | 119.21        | 723.06 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 3.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 795.00 |
| DIRECT EXPENSES       |        |        |        |        |        |         |         |         |         |         |         |        |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.38   | 0.00   |
| GINNING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 110.00 |
| FERTILIZERS           | 26.57  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 16.93   | 0.00    | 16.93   | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 20.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 10.26  | 0.00    | 56.60   | 0.00    | 10.72   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 2.09    | 10.76   | 27.57   | 5.57    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 135.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| GROWTH REGULATORS     | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.12    | 1.12    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.66   | 0.00    | 0.66    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ERADICATION FEE       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 1.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 8.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 1.91   | 0.00   | 0.00   | 0.00   | 0.51   | 1.49    | 4.18    | 2.00    | 2.30    | 0.51    | 0.77    | 8.43   |
| 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                  | 1.63   | 0.00   | 0.00   | 0.00   | 0.29   | 1.08    | 2.75    | 1.37    | 1.51    | 0.29    | 0.43    | 9.92   |
| REPAIR & MAINTENANCE  | 2.03   | 0.00   | 0.00   | 0.00   | 0.18   | 0.99    | 2.79    | 1.17    | 0.95    | 0.18    | 0.27    | 23.32  |
| INTEREST ON OP. CAP.  | 3.51   | 0.00   | 0.00   | 0.00   | 0.37   | 0.57    | 5.54    | 0.66    | 0.71    | 0.08    | 0.14    | 0.61   |
| TOTAL DIRECT EXPENSES | 77.12  | 0.00   | 0.00   | 0.00   | 12.27  | 21.06   | 238.61  | 34.01   | 44.88   | 6.63    | 16.99   | 152.28 |
| NET INCOME            | -77.12 | 0.00   | 0.00   | 0.00   | -12.27 | -21.06  | -238.61 | -34.01  | -44.88  | -6.63   | -16.99  | 642.72 |
| NET INCOME TO DATE    | -77.12 | -77.12 | -77.12 | -77.12 | -89.39 | -110.45 | -349.06 | -383.07 | -427.95 | -434.58 | -451.57 | 191.15 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| PRODUCT     |         |      | PERCENT       |              |              |              |              |             |             |             |             |             |            |
|-------------|---------|------|---------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|
|             |         |      | 75            | 80           | 85           | 90           | 95           | 100         | 105         | 110         | 115         | 120         | 125        |
|             |         |      | PRODUCT PRICE |              |              |              |              |             |             |             |             |             |            |
| Cotton Lint |         |      | 0.49          | 0.52         | 0.56         | 0.59         | 0.62         | 0.66        | 0.69        | 0.72        | 0.75        | 0.79        | 0.82       |
| PERCENT     | YIELD   | UNIT | dollars       |              |              |              |              |             |             |             |             |             |            |
| 50          | 500.00  | lb   | -166<br>-285  | -149<br>-268 | -133<br>-252 | -116<br>-235 | -100<br>-219 | -83<br>-202 | -67<br>-186 | -50<br>-169 | -34<br>-153 | -17<br>-136 | -1<br>-120 |
| 60          | 600.00  | lb   | -127<br>-246  | -107<br>-227 | -88<br>-207  | -68<br>-187  | -48<br>-167  | -28<br>-147 | -8<br>-128  | 10<br>-108  | 30<br>-88   | 50<br>-68   | 70<br>-48  |
| 70          | 700.00  | lb   | -89<br>-208   | -66<br>-185  | -43<br>-162  | -19<br>-139  | 3<br>-116    | 26<br>-92   | 49<br>-69   | 72<br>-46   | 95<br>-23   | 118<br>-0   | 141<br>22  |
| 80          | 800.00  | lb   | -50<br>-169   | -24<br>-143  | 2<br>-117    | 28<br>-90    | 54<br>-64    | 81<br>-37   | 107<br>-11  | 134<br>14   | 160<br>41   | 186<br>67   | 213<br>94  |
| 90          | 900.00  | lb   | -12<br>-131   | 17<br>-101   | 47<br>-72    | 76<br>-42    | 106<br>-12   | 136<br>16   | 165<br>46   | 195<br>76   | 225<br>106  | 254<br>135  | 284<br>165 |
| 100         | 1000.00 | lb   | 26<br>-93     | 59<br>-60    | 92<br>-27    | 125<br>5     | 158<br>38    | 191<br>71   | 224<br>104  | 257<br>137  | 290<br>170  | 323<br>203  | 356<br>236 |
| 110         | 1100.00 | lb   | 64<br>-54     | 100<br>-18   | 137<br>17    | 173<br>54    | 209<br>90    | 246<br>126  | 282<br>163  | 318<br>199  | 355<br>235  | 391<br>272  | 427<br>308 |
| 120         | 1200.00 | lb   | 103<br>-16    | 142<br>23    | 182<br>63    | 221<br>102   | 261<br>142   | 301<br>181  | 340<br>221  | 380<br>261  | 419<br>300  | 459<br>340  | 499<br>379 |
| 130         | 1300.00 | lb   | 141<br>22     | 184<br>65    | 227<br>108   | 270<br>151   | 313<br>193   | 356<br>236  | 398<br>279  | 441<br>322  | 484<br>365  | 527<br>408  | 570<br>451 |
| 140         | 1400.00 | lb   | 179<br>60     | 226<br>106   | 272<br>153   | 318<br>199   | 364<br>245   | 410<br>291  | 457<br>337  | 503<br>384  | 549<br>430  | 595<br>476  | 641<br>522 |
| 150         | 1500.00 | lb   | 218<br>99     | 267<br>148   | 317<br>198   | 366<br>247   | 416<br>297   | 465<br>346  | 515<br>396  | 564<br>445  | 614<br>495  | 663<br>544  | 713<br>594 |

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 2017 input prices.

Table 4.A Estimated costs per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT  | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
|                          |       | dollars |          | dollars |           |
| DIRECT EXPENSES          |       |         |          |         |           |
| HARVEST AIDS             |       |         |          |         |           |
| Thidiazuron 4lb          | oz    | 1.50    | 2.3000   | 3.45    | _____     |
| Ethephon 6E              | pt    | 2.88    | 2.3125   | 6.66    | _____     |
| Tribufos 6lb             | pt    | 10.54   | 0.5000   | 5.27    | _____     |
| GINNING                  |       |         |          |         |           |
| Gin & Haul               | lb    | 0.11    | 900.0000 | 99.00   | _____     |
| FERTILIZERS              |       |         |          |         |           |
| Potash (60% K2O)         | cwt   | 18.98   | 1.4000   | 26.57   | _____     |
| UAN (32%)                | gal   | 1.17    | 18.4000  | 21.53   | _____     |
| FUNGICIDES               |       |         |          |         |           |
| Cotton Seed Trt.         | acre  | 20.00   | 1.0000   | 20.00   | _____     |
| HERBICIDES               |       |         |          |         |           |
| Clarity                  | pt    | 11.55   | 0.5000   | 5.78    | _____     |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 128.0000 | 17.92   | _____     |
| Gramoxone SL 2.0         | oz    | 0.15    | 48.0000  | 7.20    | _____     |
| Cotoran                  | pt    | 6.42    | 2.0000   | 12.84   | _____     |
| Dual Magnum              | pt    | 13.80   | 2.0000   | 27.60   | _____     |
| Diuron                   | pt    | 3.90    | 1.6000   | 6.24    | _____     |
| INSECTICIDES             |       |         |          |         |           |
| Acephate 90%             | lb    | 7.43    | 1.7500   | 13.00   | _____     |
| Bidrin 8EC               | oz    | 1.17    | 0.2000   | 0.23    | _____     |
| Centric 40WG             | oz    | 5.38    | 2.0000   | 10.76   | _____     |
| IncidentalPestTrt\$22    | acre  | 22.00   | 1.0000   | 22.00   | _____     |
| SEED/PLANTS              |       |         |          |         |           |
| Cotton Seed B2XF         | thous | 3.00    | 45.0000  | 135.00  | _____     |
| GROWTH REGULATORS        |       |         |          |         |           |
| Mepiquat Chloride        | oz    | 0.07    | 32.0000  | 2.24    | _____     |
| ADJUVANTS                |       |         |          |         |           |
| Surfactant               | pt    | 3.28    | 0.4000   | 1.31    | _____     |
| CUSTOM FERTILIZE         |       |         |          |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000   | 7.50    | _____     |
| ERADICATION FEE          |       |         |          |         |           |
| Eradiation               | acre  | 1.00    | 1.0000   | 1.00    | _____     |
| CUSTOM LIME              |       |         |          |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |       |         |          |         |           |
| Cotton Consultant        | acre  | 8.00    | 1.0000   | 8.00    | _____     |
| SOIL TEST                |       |         |          |         |           |
| Soil Test                | acre  | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |       |         |          |         |           |
| Tractors                 | hour  | 13.51   | 0.2987   | 4.04    | _____     |
| Self-Propelled           | hour  | 13.51   | 0.3397   | 4.61    | _____     |
| HAND LABOR               |       |         |          |         |           |
| Implements               | hour  | 9.06    | 0.0998   | 0.90    | _____     |
| Self-Propelled           | hour  | 9.06    | 0.2560   | 2.32    | _____     |
| UNALLOCATED LABOR        |       |         |          |         |           |
|                          | hour  | 13.50   | 0.5108   | 6.90    | _____     |
| DIESEL FUEL              |       |         |          |         |           |
| Tractors                 | gal   | 1.80    | 3.2620   | 5.88    | _____     |
| Self-Propelled           | gal   | 1.80    | 5.9419   | 10.73   | _____     |
| REPAIR & MAINTENANCE     |       |         |          |         |           |
| Implements               | acre  | 4.92    | 1.0000   | 4.92    | _____     |
| Tractors                 | acre  | 1.83    | 1.0000   | 1.83    | _____     |
| Self-Propelled           | acre  | 22.31   | 1.0000   | 22.31   | _____     |
| INTEREST ON OP. CAP.     | acre  | 11.46   | 1.0000   | 11.46   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |          | 570.98  | _____     |
| FIXED EXPENSES           |       |         |          |         |           |
| Implements               | acre  | 6.52    | 1.0000   | 6.52    | _____     |
| Tractors                 | acre  | 11.55   | 1.0000   | 11.55   | _____     |
| Self-Propelled           | acre  | 92.67   | 1.0000   | 92.67   | _____     |
| TOTAL FIXED EXPENSES     |       |         |          | 110.74  | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |          | 681.72  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

Table 4.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
|  |      | dollars |           | dollars |           |
| INCOME                                 |      |         |           |         |           |
| Cotton Lint                            | lb   | 0.66    | 900.0000  | 594.00  | _____     |
| Cotton Seed                            | lb   | 0.10    | 1215.0000 | 121.50  | _____     |
|  |      |         |           | -----   |           |
| TOTAL INCOME                           |      |         |           | 715.50  | _____     |
| DIRECT EXPENSES                        |      |         |           |         |           |
| HARVEST AIDS                           | acre | 15.38   | 1.0000    | 15.38   | _____     |
| GINNING                                | acre | 99.00   | 1.0000    | 99.00   | _____     |
| FERTILIZERS                            | acre | 48.10   | 1.0000    | 48.10   | _____     |
| FUNGICIDES                             | acre | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES                             | acre | 77.58   | 1.0000    | 77.58   | _____     |
| INSECTICIDES                           | acre | 45.99   | 1.0000    | 45.99   | _____     |
| SEED/PLANTS                            | acre | 135.00  | 1.0000    | 135.00  | _____     |
| GROWTH REGULATORS                      | acre | 2.24    | 1.0000    | 2.24    | _____     |
| ADJUVANTS                              | acre | 1.32    | 1.0000    | 1.32    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE                        | acre | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000    | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000    | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.3558    | 3.22    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.6385    | 8.65    | _____     |
| UNALLOCATED LABOR                      | hour | 13.50   | 0.5108    | 6.90    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 9.2040    | 16.61   | _____     |
| REPAIR & MAINTENANCE                   | acre | 29.06   | 1.0000    | 29.06   | _____     |
| INTEREST ON OP. CAP.                   | acre | 11.46   | 1.0000    | 11.46   | _____     |
|  |      |         |           | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |           | 570.98  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |           | 144.52  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |           |         |           |
|  |      |         |           | 110.74  | _____     |
|  |      |         |           | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |           | 681.72  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |           | 33.78   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 4.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | POWER<br>IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |                    |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |                    |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.6660          |                    |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |                    |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.4000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Mar |                 |                    | 0.01          | 0.02           | 0.01           |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |                    |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |                    |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |                    |               |                |                |
| Row Cond Folding              | 38'           | MFWD 225           | 0.040        | 1.00          | May |                 | 0.04               | 0.04          | 0.04           | 0.03           |
| NT Plant-Folding              | 12R-38        | MFWD 225           | 0.051        | 1.00          | May |                 | 0.05               | 0.05          | 0.10           | 0.04           |
| Cotton Seed B2XF              | thous         |                    |              |               |     | 45.0000         |                    |               |                |                |
| Cotton Seed Trt.              | acre          |                    |              |               |     | 1.0000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |                    | 0.01          | 0.02           | 0.01           |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |                    |               |                |                |
| Cotoran                       | pt            |                    |              |               |     | 2.0000          |                    |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |                    |               |                |                |
| Cotton Consultant             | acre          |                    |              | 1.00          | May | 1.0000          |                    |               |                |                |
| Eradication                   | acre          |                    |              |               |     | 1.0000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |                    | 0.01          | 0.02           | 0.01           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |                    |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |                    |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.2500          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |                    | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |                    |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |                    |               |                |                |
| Bidrin 8EC                    | oz            |                    |              |               |     | 0.2000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |                    | 0.01          | 0.02           | 0.01           |
| Centric 40WG                  | oz            |                    |              |               |     | 2.0000          |                    |               |                |                |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |                    |               |                |                |
| Fert Appl (Liquid)            | 12R-38        | MFWD 225           | 0.051        | 1.00          | Jun |                 | 0.05               | 0.05          | 0.07           | 0.04           |
| UAN (32%)                     | gal           |                    |              |               |     | 18.4000         |                    |               |                |                |
| Spray (Direct/Layby)          | 12R-38        | MFWD 225           | 0.044        | 1.00          | Jun |                 | 0.04               | 0.04          | 0.06           | 0.03           |
| Diuron                        | pt            |                    |              |               |     | 1.6000          |                    |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |                    | 0.01          | 0.02           | 0.01           |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |                    |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |                    |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Jul |                 |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        |               |     |                 |                    | 0.01          | 0.02           | 0.01           |
| IncidentalPestTrt\$22         | acre          |                    |              |               |     | 1.0000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |                    | 0.01          | 0.02           | 0.01           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |                    | 0.01          | 0.02           | 0.01           |
| Thidiazuron 4lb               | oz            |                    |              |               |     | 2.3000          |                    |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 2.0000          |                    |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.50          | Sep |                 |                    | 0.00          | 0.01           | 0.00           |
| Tribufos 6lb                  | pt            |                    |              |               |     | 0.5000          |                    |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 0.3125          |                    |               |                |                |
| Cotton Picker/Module          | 6R-38 (500)   |                    | 0.172        | 1.00          | Oct |                 |                    | 0.17          | 0.34           | 0.13           |
| Gin & Haul                    | lb            |                    |              | 1.00          | Oct | 900.0000        |                    |               |                |                |
| Stalk Shredder-Flail          | 15'           | MFWD 190           | 0.110        | 1.00          | Oct |                 | 0.11               | 0.11          | 0.11           | 0.08           |
| TOTALS                        |               |                    |              |               |     |                 | 0.63               | 0.29          | 0.99           | 0.51           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 4.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 30.64                 |       |       |       |       |       | 1.46   | 32.10         | 32.10         |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.36   | 7.86          | 7.86          |
| Potash (60% K2O)              | cwt           | 26.57                 |       |       |       |       |       | 1.26   | 27.83         | 27.83         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.03   | 1.01          | 1.20          |
| Clarity                       | pt            | 5.78                  |       |       |       |       |       | 0.18   | 5.96          | 5.96          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.14   | 4.62          | 4.62          |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.02   | 0.68          | 0.68          |
| Row Cond Folding              | 38'           |                       | 0.85  | 0.54  | 0.99  |       |       | 0.06   | 2.44          | 2.82          |
| NT Plant-Folding              | 12R-38        |                       | 1.08  | 1.91  | 1.73  |       |       | 0.11   | 4.83          | 5.15          |
| Cotton Seed B2XF              | thous         | 135.00                |       |       |       |       |       | 3.21   | 138.21        | 138.21        |
| Cotton Seed Trt.              | acre          | 20.00                 |       |       |       |       |       | 0.48   | 20.48         | 20.48         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.17   | 7.37          | 7.37          |
| Cotoran                       | pt            | 12.84                 |       |       |       |       |       | 0.30   | 13.14         | 13.14         |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.02   | 0.68          | 0.68          |
| Cotton Consultant             | acre          | 8.00                  |       |       |       |       |       | 0.19   | 8.19          | 8.19          |
| Eradication                   | acre          | 1.00                  |       |       |       |       |       | 0.02   | 1.02          | 1.02          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          | 4.59          |
| Dual Magnum                   | pt            | 13.80                 |       |       |       |       |       | 0.33   | 14.13         | 14.13         |
| Acephate 90%                  | lb            | 1.86                  |       |       |       |       |       | 0.04   | 1.90          | 1.90          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Dual Magnum                   | pt            | 13.80                 |       |       |       |       |       | 0.33   | 14.13         | 14.13         |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          | 4.59          |
| Bidrin 8EC                    | oz            | 0.23                  |       |       |       |       |       | 0.01   | 0.24          | 0.24          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Centric 40WG                  | oz            | 10.76                 |       |       |       |       |       | 0.21   | 10.97         | 10.97         |
| Mepiquat Chloride             | oz            | 1.12                  |       |       |       |       |       | 0.02   | 1.14          | 1.14          |
| Fert Appl (Liquid)            | 12R-38        |                       | 1.08  | 0.99  | 1.49  |       |       | 0.07   | 3.63          | 2.88          |
| UAN (32%)                     | gal           | 21.53                 |       |       |       |       |       | 0.43   | 21.96         | 21.96         |
| Spray (Direct/Layby)          | 12R-38        |                       | 0.93  | 0.59  | 1.28  |       |       | 0.06   | 2.86          | 2.20          |
| Diuron                        | pt            | 6.24                  |       |       |       |       |       | 0.12   | 6.36          | 6.36          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.09   | 4.57          | 4.57          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Mepiquat Chloride             | oz            | 1.12                  |       |       |       |       |       | 0.02   | 1.14          | 1.14          |
| Acephate 90%                  | lb            | 5.57                  |       |       |       |       |       | 0.09   | 5.66          | 5.66          |
| Incidental Pest               |               |                       |       |       |       |       |       |        |               |               |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| IncidentalPestTrt\$22         | acre          | 22.00                 |       |       |       |       |       | 0.35   | 22.35         | 22.35         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Acephate 90%                  | lb            | 5.57                  |       |       |       |       |       | 0.07   | 5.64          | 5.64          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Thidiazuron 4lb               | oz            | 3.45                  |       |       |       |       |       | 0.03   | 3.48          | 3.48          |
| Ethephon 6E                   | pt            | 5.76                  |       |       |       |       |       | 0.05   | 5.81          | 5.81          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.14  | 0.09  | 0.26  |       |       |        | 0.49          | 0.60          |
| Tribufos 6lb                  | pt            | 5.27                  |       |       |       |       |       | 0.04   | 5.31          | 5.31          |
| Ethephon 6E                   | pt            | 0.90                  |       |       |       |       |       | 0.01   | 0.91          | 0.91          |
| Cotton Picker/Module          | 6R-38(500)    |                       | 7.98  | 20.60 | 5.75  |       |       | 0.14   | 34.47         | 81.27         |
| Gin & Haul                    | lb            | 99.00                 |       |       |       |       |       | 0.39   | 99.39         | 99.39         |
| Stalk Shredder-Flail          | 15'           |                       | 1.94  | 2.72  | 2.68  |       |       | 0.03   | 7.37          | 5.02          |
| TOTALS                        |               | 495.08                | 16.61 | 29.06 | 18.77 | 0.00  | 11.46 | 570.98 | 110.74        | 681.72        |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 4.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 715.50 |
| DIRECT EXPENSES       |        |        |        |        |        |        |         |         |         |         |         |        |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 15.38   | 0.00   |
| GINNING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 99.00  |
| FERTILIZERS           | 26.57  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 21.53   | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 20.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 10.26  | 0.00   | 56.60   | 10.72   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.09    | 10.76   | 27.57   | 5.57    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 135.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| GROWTH REGULATORS     | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 1.12    | 1.12    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.66   | 0.00   | 0.66    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ERADICATION FEE       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 8.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.51   | 0.00   | 4.25    | 3.28    | 1.02    | 0.51    | 0.77    | 8.43   |
| 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   | 0.29   | 0.00   | 2.80    | 2.30    | 0.58    | 0.29    | 0.43    | 9.92   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.18   | 0.00   | 2.99    | 1.76    | 0.36    | 0.18    | 0.27    | 23.32  |
| INTEREST ON OP. CAP.  | 3.24   | 0.00   | 0.00   | 0.00   | 0.37   | 0.00   | 5.55    | 1.02    | 0.50    | 0.08    | 0.14    | 0.56   |
| TOTAL DIRECT EXPENSES | 71.28  | 0.00   | 0.00   | 0.00   | 12.27  | 0.00   | 238.94  | 52.49   | 31.15   | 6.63    | 16.99   | 141.23 |
| NET INCOME            | -71.28 | 0.00   | 0.00   | 0.00   | -12.27 | 0.00   | -238.94 | -52.49  | -31.15  | -6.63   | -16.99  | 574.27 |
| NET INCOME TO DATE    | -71.28 | -71.28 | -71.28 | -71.28 | -83.55 | -83.55 | -322.49 | -374.98 | -406.13 | -412.76 | -429.75 | 144.52 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

| PRODUCT     | PERCENT       |      |         |      |      |      |      |      |      |      |      |      |      |
|-------------|---------------|------|---------|------|------|------|------|------|------|------|------|------|------|
|             | 75            | 80   | 85      | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  |      |      |
|             | PRODUCT PRICE |      |         |      |      |      |      |      |      |      |      |      |      |
| Cotton Lint | 0.49          | 0.52 | 0.56    | 0.59 | 0.62 | 0.66 | 0.69 | 0.72 | 0.75 | 0.79 | 0.82 |      |      |
| PERCENT     | YIELD         | UNIT | dollars |      |      |      |      |      |      |      |      |      |      |
| 50          | 450.00        | lb   | -177    | -162 | -147 | -132 | -117 | -102 | -87  | -73  | -58  | -43  | -28  |
|             |               |      | -287    | -272 | -258 | -243 | -228 | -213 | -198 | -183 | -168 | -154 | -139 |
| 60          | 540.00        | lb   | -142    | -124 | -106 | -88  | -71  | -53  | -35  | -17  | 0    | 17   | 35   |
|             |               |      | -253    | -235 | -217 | -199 | -181 | -164 | -146 | -128 | -110 | -92  | -74  |
| 70          | 630.00        | lb   | -107    | -87  | -66  | -45  | -24  | -3   | 16   | 37   | 58   | 79   | 100  |
|             |               |      | -218    | -197 | -176 | -156 | -135 | -114 | -93  | -73  | -52  | -31  | -10  |
| 80          | 720.00        | lb   | -73     | -49  | -25  | -1   | 21   | 45   | 69   | 93   | 116  | 140  | 164  |
|             |               |      | -183    | -160 | -136 | -112 | -88  | -65  | -41  | -17  | 6    | 29   | 53   |
| 90          | 810.00        | lb   | -38     | -11  | 14   | 41   | 68   | 95   | 121  | 148  | 175  | 201  | 228  |
|             |               |      | -149    | -122 | -95  | -69  | -42  | -15  | 11   | 37   | 64   | 91   | 117  |
| 100         | 900.00        | lb   | -3      | 25   | 55   | 85   | 114  | 144  | 174  | 203  | 233  | 263  | 293  |
|             |               |      | -114    | -85  | -55  | -25  | 4    | 33   | 63   | 93   | 122  | 152  | 182  |
| 110         | 990.00        | lb   | 30      | 63   | 95   | 128  | 161  | 193  | 226  | 259  | 291  | 324  | 357  |
|             |               |      | -80     | -47  | -14  | 17   | 50   | 83   | 115  | 148  | 181  | 213  | 246  |
| 120         | 1080.00       | lb   | 65      | 100  | 136  | 172  | 207  | 243  | 279  | 314  | 350  | 386  | 421  |
|             |               |      | -45     | -9   | 25   | 61   | 97   | 132  | 168  | 203  | 239  | 275  | 310  |
| 130         | 1170.00       | lb   | 99      | 138  | 177  | 215  | 254  | 292  | 331  | 370  | 408  | 447  | 485  |
|             |               |      | -10     | 27   | 66   | 104  | 143  | 182  | 220  | 259  | 297  | 336  | 375  |
| 140         | 1260.00       | lb   | 134     | 176  | 217  | 259  | 300  | 342  | 383  | 425  | 467  | 508  | 550  |
|             |               |      | 23      | 65   | 106  | 148  | 190  | 231  | 273  | 314  | 356  | 397  | 439  |
| 150         | 1350.00       | lb   | 169     | 213  | 258  | 302  | 347  | 391  | 436  | 480  | 525  | 570  | 614  |
|             |               |      | 58      | 102  | 147  | 191  | 236  | 281  | 325  | 370  | 414  | 459  | 503  |

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 2017 input prices.

Table 5.A Estimated costs per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT  | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
|                          |       | dollars |           | dollars |           |
| DIRECT EXPENSES          |       |         |           |         |           |
| HARVEST AIDS             |       |         |           |         |           |
| Thidiazuron 4lb          | oz    | 1.50    | 2.3000    | 3.45    | _____     |
| Ethephon 6E              | pt    | 2.88    | 2.3125    | 6.66    | _____     |
| Tribufos 6lb             | pt    | 10.54   | 0.5000    | 5.27    | _____     |
| GINNING                  |       |         |           |         |           |
| Gin & Haul               | lb    | 0.11    | 1200.0000 | 132.00  | _____     |
| FERTILIZERS              |       |         |           |         |           |
| Potash (60% K2O)         | cwt   | 18.98   | 1.4000    | 26.57   | _____     |
| UAN (32%)                | gal   | 1.17    | 28.9332   | 33.85   | _____     |
| FUNGICIDES               |       |         |           |         |           |
| Cotton Seed Trt.         | acre  | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES               |       |         |           |         |           |
| Clarity                  | pt    | 11.55   | 0.5000    | 5.78    | _____     |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 128.0000  | 17.92   | _____     |
| Gramoxone SL 2.0         | oz    | 0.15    | 48.0000   | 7.20    | _____     |
| Cotoran                  | pt    | 6.42    | 2.0000    | 12.84   | _____     |
| Dual Magnum              | pt    | 13.80   | 2.0000    | 27.60   | _____     |
| Diuron                   | pt    | 3.90    | 1.6000    | 6.24    | _____     |
| INSECTICIDES             |       |         |           |         |           |
| Acephate 90%             | lb    | 7.43    | 1.7500    | 13.00   | _____     |
| Bidrin 8EC               | oz    | 1.17    | 0.2000    | 0.23    | _____     |
| Centric 40WG             | oz    | 5.38    | 2.0000    | 10.76   | _____     |
| IncidentalPestTrt\$22    | acre  | 22.00   | 1.0000    | 22.00   | _____     |
| SEED/PLANTS              |       |         |           |         |           |
| Cotton Seed B2XF         | thous | 3.00    | 45.0000   | 135.00  | _____     |
| GROWTH REGULATORS        |       |         |           |         |           |
| Mepiquat Chloride        | oz    | 0.07    | 32.0000   | 2.24    | _____     |
| ADJUVANTS                |       |         |           |         |           |
| Surfactant               | pt    | 3.28    | 0.4000    | 1.31    | _____     |
| CUSTOM FERTILIZE         |       |         |           |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE          |       |         |           |         |           |
| Eradication              | acre  | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME              |       |         |           |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660    | 30.64   | _____     |
| CROP CONSULTANT          |       |         |           |         |           |
| Cotton Consultant        | acre  | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                |       |         |           |         |           |
| Soil Test                | acre  | 10.00   | 0.3330    | 3.33    | _____     |
| OPERATOR LABOR           |       |         |           |         |           |
| Tractors                 | hour  | 13.51   | 0.4268    | 5.77    | _____     |
| Self-Propelled           | hour  | 13.51   | 0.3397    | 4.61    | _____     |
| IRRIGATE LABOR           |       |         |           |         |           |
| Special Labor            | hour  | 9.06    | 0.2036    | 1.84    | _____     |
| HAND LABOR               |       |         |           |         |           |
| Implements               | hour  | 9.06    | 0.1235    | 1.11    | _____     |
| Self-Propelled           | hour  | 9.06    | 0.2560    | 2.32    | _____     |
| UNALLOCATED LABOR        |       |         |           |         |           |
|                          | hour  | 13.51   | 0.6133    | 8.29    | _____     |
| DIESEL FUEL              |       |         |           |         |           |
| Tractors                 | gal   | 1.80    | 4.7451    | 8.54    | _____     |
| Self-Propelled           | gal   | 1.80    | 5.9419    | 10.73   | _____     |
| 1/4-mi. Pivot Irr.       | gal   | 1.80    | 11.2011   | 20.16   | _____     |
| REPAIR & MAINTENANCE     |       |         |           |         |           |
| Implements               | acre  | 6.90    | 1.0000    | 6.90    | _____     |
| Tractors                 | acre  | 2.67    | 1.0000    | 2.67    | _____     |
| Self-Propelled           | acre  | 22.31   | 1.0000    | 22.31   | _____     |
| 1/4-mi. Pivot Irr.       | acre  | 21.65   | 1.0000    | 21.65   | _____     |
| INTEREST ON OP. CAP.     |       |         |           |         |           |
|                          | acre  | 13.05   | 1.0000    | 13.05   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |           | 670.36  | _____     |
| FIXED EXPENSES           |       |         |           |         |           |
| Implements               | acre  | 9.70    | 1.0000    | 9.70    | _____     |
| Tractors                 | acre  | 16.84   | 1.0000    | 16.84   | _____     |
| Self-Propelled           | acre  | 92.67   | 1.0000    | 92.67   | _____     |
| 1/4-mi. Pivot Irr.       | acre  | 74.43   | 1.0000    | 74.43   | _____     |
| TOTAL FIXED EXPENSES     |       |         |           | 193.64  | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |           | 864.00  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY  | AMOUNT  | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
|  |      | dollars |           | dollars |           |
| INCOME                                 |      |         |           |         |           |
| Cotton Lint                            | lb   | 0.66    | 1200.0000 | 792.00  | _____     |
| Cotton Seed                            | lb   | 0.10    | 1620.0000 | 162.00  | _____     |
|  |      |         |           | -----   |           |
| TOTAL INCOME                           |      |         |           | 954.00  | _____     |
| DIRECT EXPENSES                        |      |         |           |         |           |
| HARVEST AIDS                           | acre | 15.38   | 1.0000    | 15.38   | _____     |
| GINNING                                | acre | 132.00  | 1.0000    | 132.00  | _____     |
| FERTILIZERS                            | acre | 60.43   | 1.0000    | 60.43   | _____     |
| FUNGICIDES                             | acre | 20.00   | 1.0000    | 20.00   | _____     |
| HERBICIDES                             | acre | 77.58   | 1.0000    | 77.58   | _____     |
| INSECTICIDES                           | acre | 45.99   | 1.0000    | 45.99   | _____     |
| SEED/PLANTS                            | acre | 135.00  | 1.0000    | 135.00  | _____     |
| GROWTH REGULATORS                      | acre | 2.24    | 1.0000    | 2.24    | _____     |
| ADJUVANTS                              | acre | 1.32    | 1.0000    | 1.32    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000    | 7.50    | _____     |
| ERADICATION FEE                        | acre | 1.00    | 1.0000    | 1.00    | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000    | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 8.00    | 1.0000    | 8.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000    | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.3796    | 3.43    | _____     |
| IRRIGATE LABOR                         | hour | 9.06    | 0.2036    | 1.84    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.7666    | 10.38   | _____     |
| UNALLOCATED LABOR                      | hour | 13.51   | 0.6133    | 8.29    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 21.8882   | 39.43   | _____     |
| REPAIR & MAINTENANCE                   | acre | 53.53   | 1.0000    | 53.53   | _____     |
| INTEREST ON OP. CAP.                   | acre | 13.05   | 1.0000    | 13.05   | _____     |
|  |      |         |           | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |           | 670.36  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |           | 283.64  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |           | 193.64  | _____     |
|  |      |         |           | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |           | 864.00  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |           | 90.00   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.6660          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.4000          |           |               |                |                |
| Bed-Paratill Fold             | 12R-38        | MFWD 225           | 0.053        | 1.00          | Nov |                 | 0.05      | 0.05          | 0.05           | 0.04           |
| Bed/Disk (Hipper)             | 12R-38        | MFWD 225           | 0.049        | 0.50          | Nov |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Mar |                 |           | 0.01          | 0.02           | 0.01           |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Fert Appl (Liquid)            | 12R-38        | MFWD 225           | 0.051        | 1.00          | Apr |                 | 0.05      | 0.05          | 0.07           | 0.04           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Row Cond Folding              | 38'           | MFWD 225           | 0.040        | 1.00          | May |                 | 0.04      | 0.04          | 0.04           | 0.03           |
| Plant - Folding               | 12R-38        | MFWD 225           | 0.049        | 1.00          | May |                 | 0.04      | 0.04          | 0.09           | 0.03           |
| Cotton Seed B2XF              | thous         |                    |              |               |     | 45.0000         |           |               |                |                |
| Cotton Seed Trt.              | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Cotoran                       | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Cotton Consultant             | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Eradication                   | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.2500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Bidrin 8EC                    | oz            |                    |              |               |     | 0.2000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Centric 40WG                  | oz            |                    |              |               |     | 2.0000          |           |               |                |                |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Fert Appl (Liquid)            | 12R-38        | MFWD 225           | 0.051        | 1.00          | Jun |                 | 0.05      | 0.05          | 0.07           | 0.04           |
| UAN (32%)                     | gal           |                    |              |               |     | 14.4666         |           |               |                |                |
| Spray (Direct/Layby)          | 12R-38        | MFWD 225           | 0.044        | 1.00          | Jul |                 | 0.04      | 0.04          | 0.06           | 0.03           |
| Diuron                        | pt            |                    |              |               |     | 1.6000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Mepiquat Chloride             | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Jul |                 |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        |               |     |                 |           | 0.01          | 0.02           | 0.01           |
| IncidentalPestTrt\$22         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |           | 0.01          | 0.02           | 0.01           |
| Thidiazuron 4lb               | oz            |                    |              |               |     | 2.3000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.50          | Sep |                 |           | 0.00          | 0.01           | 0.00           |
| Tribufos 6lb                  | pt            |                    |              |               |     | 0.5000          |           |               |                |                |
| Ethephon 6E                   | pt            |                    |              |               |     | 0.3125          |           |               |                |                |
| Cotton Picker/Module          | 6R-38(500)    |                    | 0.172        | 1.00          | Oct |                 |           | 0.17          | 0.34           | 0.13           |
| Gin & Haul                    | lb            |                    |              | 1.00          | Oct | 1200.0000       |           |               |                |                |
| Stalk Shredder-Flail          | 15'           | MFWD 190           | 0.110        | 1.00          | Oct |                 | 0.11      | 0.11          | 0.11           | 0.08           |
| 1/4-mi. Pivot Irr.            | acre          |                    |              |               | Jan | 1.0000          |           |               | 0.20           |                |
| TOTALS                        |               |                    |              |               |     |                 | 0.76      | 0.42          | 1.34           | 0.61           |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |        |       |       |       |       |       | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|--------|-------|-------|-------|-------|-------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL   | R&M   | LABOR | LEASE | INTER | TOTAL |               |               |        |
| -----dollars-----             |               |                       |        |       |       |       |       |       |               |               |        |
| Soil Test                     | acre          | 3.33                  |        |       |       |       |       | 0.16  | 3.49          |               | 3.49   |
| Lime (Spread)                 | ton           | 30.64                 |        |       |       |       |       | 1.46  | 32.10         |               | 32.10  |
| Custom Apply Fert             | acre          | 7.50                  |        |       |       |       |       | 0.36  | 7.86          |               | 7.86   |
| Potash (60% K2O)              | cwt           | 26.57                 |        |       |       |       |       | 1.26  | 27.83         |               | 27.83  |
| Bed-Paratill Fold             | 12R-38        |                       | 1.12   | 1.69  | 1.31  |       |       | 0.20  | 4.32          | 4.55          | 8.87   |
| Bed/Disk (Hipper)             | 12R-38        |                       | 0.51   | 0.34  | 0.60  |       |       | 0.07  | 1.52          | 1.50          | 3.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.03  | 1.01          | 1.20          | 2.21   |
| Clarity                       | pt            | 5.78                  |        |       |       |       |       | 0.18  | 5.96          |               | 5.96   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.14  | 4.62          |               | 4.62   |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Fert Appl (Liquid)            | 12R-38        |                       | 1.08   | 0.99  | 1.49  |       |       | 0.10  | 3.66          | 2.88          | 6.54   |
| UAN (32%)                     | gal           | 16.93                 |        |       |       |       |       | 0.47  | 17.40         |               | 17.40  |
| Row Cond Folding              | 38'           |                       | 0.85   | 0.54  | 0.99  |       |       | 0.06  | 2.44          | 2.82          | 5.26   |
| Plant - Folding               | 12R-38        |                       | 1.03   | 1.71  | 1.66  |       |       | 0.10  | 4.50          | 4.69          | 9.19   |
| Cotton Seed B2XF              | thous         | 135.00                |        |       |       |       |       | 3.21  | 138.21        |               | 138.21 |
| Cotton Seed Trt.              | acre          | 20.00                 |        |       |       |       |       | 0.48  | 20.48         |               | 20.48  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Gramoxone SL 2.0              | oz            | 7.20                  |        |       |       |       |       | 0.17  | 7.37          |               | 7.37   |
| Cotoran                       | pt            | 12.84                 |        |       |       |       |       | 0.30  | 13.14         |               | 13.14  |
| Surfactant                    | pt            | 0.66                  |        |       |       |       |       | 0.02  | 0.68          |               | 0.68   |
| Cotton Consultant             | acre          | 8.00                  |        |       |       |       |       | 0.19  | 8.19          |               | 8.19   |
| Eradication                   | acre          | 1.00                  |        |       |       |       |       | 0.02  | 1.02          |               | 1.02   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Acephate 90%                  | lb            | 1.86                  |        |       |       |       |       | 0.04  | 1.90          |               | 1.90   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Dual Magnum                   | pt            | 13.80                 |        |       |       |       |       | 0.33  | 14.13         |               | 14.13  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.11  | 4.59          |               | 4.59   |
| Bidrin 8EC                    | oz            | 0.23                  |        |       |       |       |       | 0.01  | 0.24          |               | 0.24   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Centric 40WG                  | oz            | 10.76                 |        |       |       |       |       | 0.21  | 10.97         |               | 10.97  |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Fert Appl (Liquid)            | 12R-38        |                       | 1.08   | 0.99  | 1.49  |       |       | 0.07  | 3.63          | 2.88          | 6.51   |
| UAN (32%)                     | gal           | 16.93                 |        |       |       |       |       | 0.34  | 17.27         |               | 17.27  |
| Spray (Direct/Layby)          | 12R-38        |                       | 0.93   | 0.59  | 1.28  |       |       | 0.04  | 2.84          | 2.20          | 5.04   |
| Diuron                        | pt            | 6.24                  |        |       |       |       |       | 0.10  | 6.34          |               | 6.34   |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |        |       |       |       |       | 0.07  | 4.55          |               | 4.55   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| Mepiquat Chloride             | oz            | 1.12                  |        |       |       |       |       | 0.02  | 1.14          |               | 1.14   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.09  | 5.66          |               | 5.66   |
| Incidental Pest               |               |                       |        |       |       |       |       |       |               |               |        |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.02  | 1.00          | 1.20          | 2.20   |
| IncidentalPestTrt\$22         | acre          | 22.00                 |        |       |       |       |       | 0.35  | 22.35         |               | 22.35  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Acephate 90%                  | lb            | 5.57                  |        |       |       |       |       | 0.07  | 5.64          |               | 5.64   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29   | 0.18  | 0.51  |       |       | 0.01  | 0.99          | 1.20          | 2.19   |
| Thidiazuron 4lb               | oz            | 3.45                  |        |       |       |       |       | 0.03  | 3.48          |               | 3.48   |
| Ethephon 6E                   | pt            | 5.76                  |        |       |       |       |       | 0.05  | 5.81          |               | 5.81   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.14   | 0.09  | 0.26  |       |       |       | 0.49          | 0.60          | 1.09   |
| Tribufos 6lb                  | pt            | 5.27                  |        |       |       |       |       | 0.04  | 5.31          |               | 5.31   |
| Ethephon 6E                   | pt            | 0.90                  |        |       |       |       |       | 0.01  | 0.91          |               | 0.91   |
| Cotton Picker/Module          | 6R-38(500)    |                       | 7.98   | 20.60 | 5.75  |       |       | 0.14  | 34.47         | 81.27         | 115.74 |
| Bin & Haul                    | lb            | 132.00                |        |       |       |       |       | 0.52  | 132.52        |               | 132.52 |
| Stalk Shredder-Flail          | 15'           |                       | 1.94   | 2.72  | 2.68  |       |       | 0.03  | 7.37          | 5.02          | 12.39  |
| 1/4-mi. Pivot Irr.            | acre          |                       | 20.16  | 21.65 | 1.84  |       |       | 0.78  | 44.43         | 74.43         | 118.86 |
| TOTALS                        |               |                       | 540.41 | 39.43 | 53.53 | 23.94 | 0.00  | 13.05 | 670.36        | 193.64        | 864.00 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 954.00 |
| DIRECT EXPENSES       |        |        |        |        |        |         |         |         |         |         |         |        |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.38   | 0.00   |
| GINNING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 132.00 |
| FERTILIZERS           | 26.57  | 0.00   | 0.00   | 0.00   | 0.00   | 16.93   | 0.00    | 16.93   | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 20.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 10.26  | 0.00    | 56.60   | 0.00    | 10.72   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 2.09    | 10.76   | 27.57   | 5.57    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 135.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| GROWTH REGULATORS     | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.12    | 1.12    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.66   | 0.00    | 0.66    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ERADICATION FEE       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 1.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 8.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 1.91   | 0.00   | 0.00   | 0.00   | 0.51   | 1.49    | 5.52    | 2.15    | 2.50    | 0.66    | 0.77    | 8.43   |
| 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                  | 1.63   | 0.00   | 0.00   | 0.00   | 0.29   | 1.08    | 2.75    | 7.42    | 9.57    | 6.34    | 0.43    | 9.92   |
| REPAIR & MAINTENANCE  | 2.03   | 0.00   | 0.00   | 0.00   | 0.18   | 0.99    | 2.79    | 19.55   | 2.82    | 1.58    | 0.27    | 23.32  |
| INTEREST ON OP. CAP.  | 3.51   | 0.00   | 0.00   | 0.00   | 0.37   | 0.57    | 5.58    | 1.15    | 0.87    | 0.17    | 0.14    | 0.69   |
| TOTAL DIRECT EXPENSES | 77.12  | 0.00   | 0.00   | 0.00   | 12.27  | 21.06   | 239.99  | 59.08   | 55.17   | 14.32   | 16.99   | 174.36 |
| NET INCOME            | -77.12 | 0.00   | 0.00   | 0.00   | -12.27 | -21.06  | -239.99 | -59.08  | -55.17  | -14.32  | -16.99  | 779.64 |
| NET INCOME TO DATE    | -77.12 | -77.12 | -77.12 | -77.12 | -89.39 | -110.45 | -350.44 | -409.52 | -464.69 | -479.01 | -496.00 | 283.64 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.



Table 5.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

| PRODUCT     | PERCENT       |      |              |              |              |             |             |             |             |            |            |            |            |
|-------------|---------------|------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
|             | 75            | 80   | 85           | 90           | 95           | 100         | 105         | 110         | 115         | 120        | 125        |            |            |
|             | PRODUCT PRICE |      |              |              |              |             |             |             |             |            |            |            |            |
| Cotton Lint | 0.49          | 0.52 | 0.56         | 0.59         | 0.62         | 0.66        | 0.69        | 0.72        | 0.75        | 0.79       | 0.82       |            |            |
| PERCENT     | YIELD         | UNIT | dollars      |              |              |             |             |             |             |            |            |            |            |
| 50          | 600.00        | lb   | -145<br>-338 | -125<br>-318 | -105<br>-299 | -85<br>-279 | -65<br>-259 | -46<br>-239 | -26<br>-219 | -6<br>-200 | 13<br>-180 | 33<br>-160 | 52<br>-140 |
| 60          | 720.00        | lb   | -98<br>-292  | -75<br>-268  | -51<br>-245  | -27<br>-221 | -3<br>-197  | 19<br>-173  | 43<br>-150  | 67<br>-126 | 91<br>-102 | 114<br>-78 | 138<br>-54 |
| 70          | 840.00        | lb   | -52<br>-246  | -25<br>-218  | 2<br>-191    | 30<br>-163  | 58<br>-135  | 85<br>-107  | 113<br>-80  | 141<br>-52 | 168<br>-24 | 196<br>3   | 224<br>30  |
| 80          | 960.00        | lb   | -6<br>-200   | 25<br>-168   | 56<br>-136   | 88<br>-105  | 120<br>-73  | 151<br>-41  | 183<br>-10  | 215<br>21  | 246<br>53  | 278<br>84  | 310<br>116 |
| 90          | 1080.00       | lb   | 39<br>-154   | 75<br>-118   | 110<br>-82   | 146<br>-47  | 182<br>-11  | 217<br>24   | 253<br>59   | 288<br>95  | 324<br>130 | 360<br>166 | 395<br>202 |
| 100         | 1200.00       | lb   | 85<br>-108   | 125<br>-68   | 164<br>-28   | 204<br>10   | 244<br>50   | 283<br>90   | 323<br>129  | 362<br>169 | 402<br>208 | 442<br>248 | 481<br>288 |
| 110         | 1320.00       | lb   | 131<br>-61   | 175<br>-18   | 218<br>25    | 262<br>68   | 306<br>112  | 349<br>155  | 393<br>199  | 436<br>243 | 480<br>286 | 523<br>330 | 567<br>373 |
| 120         | 1440.00       | lb   | 177<br>-15   | 225<br>31    | 272<br>79    | 320<br>126  | 368<br>174  | 415<br>221  | 463<br>269  | 510<br>316 | 558<br>364 | 605<br>411 | 653<br>459 |
| 130         | 1560.00       | lb   | 224<br>30    | 275<br>81    | 327<br>133   | 378<br>184  | 430<br>236  | 481<br>287  | 532<br>339  | 584<br>390 | 635<br>442 | 687<br>493 | 738<br>545 |
| 140         | 1680.00       | lb   | 270<br>76    | 325<br>132   | 381<br>187   | 436<br>242  | 491<br>298  | 547<br>353  | 602<br>409  | 658<br>464 | 713<br>520 | 769<br>575 | 824<br>630 |
| 150         | 1800.00       | lb   | 316<br>122   | 375<br>182   | 435<br>241   | 494<br>300  | 553<br>360  | 613<br>419  | 672<br>479  | 732<br>538 | 791<br>597 | 850<br>657 | 910<br>716 |

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 2017 input prices.

Table 6.A Estimated costs per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 4.0000   | 26.00   | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| Quadris Top SBX          | oz   | 2.75    | 7.0000   | 19.25   | _____     |
| HERBICIDES               |      |         |          |         |           |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz   | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt \$8    | acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2         | lb   | 1.51    | 50.0000  | 75.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 50.0000  | 13.50   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize                 | oz   | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.12    | 1.0000   | 7.12    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 330.11  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 354.13  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.B Summary of estimated costs and returns per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 50.0000  | 495.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 495.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 26.00   | 1.0000   | 26.00   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 26.05   | 1.0000   | 26.05   | _____     |
| HERBICIDES                             | acre | 47.14   | 1.0000   | 47.14   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 75.50   | 1.0000   | 75.50   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 13.50   | 1.0000   | 13.50   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.12    | 1.0000   | 7.12    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 330.11  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 164.89  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 354.13  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 140.87  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.C Estimated resource use for field operations, per acre  
 Soybeans, double crop after wheat, RR, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed RR2              | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Quadris Top SBX               | oz            |                    |              |               |     | 7.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 50.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.21      | 0.21          | 0.30           | 0.18           |

Note: Cost of production estimates are based on 2017 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         | 17.08         |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         | 26.44         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          |
| Soybean Seed RR2              | lb            | 75.50                 |      |      |       |       |       | 1.49   | 76.99         | 76.99         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          | 6.93          |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          | 3.06          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         | 22.84         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          | 7.34          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.07   | 4.55          | 4.55          |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.21   | 13.27         | 13.27         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Quadris Top SBX               | oz            | 19.25                 |      |      |       |       |       | 0.23   | 19.48         | 19.48         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          | 5.64          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         | 18.70         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          | 5.05          |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          | 8.06          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         |
| Haul Soybeans                 | bu            | 13.50                 |      |      |       |       |       | 0.05   | 13.55         | 13.55         |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          |
| TOTALS                        |               | 304.40                | 4.95 | 7.38 | 6.26  | 0.00  | 7.12  | 330.11 | 24.02         | 354.13        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 6.E Estimated monthly income and expense flows per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 495.00 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 19.50   | 6.50    | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 19.25   | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60   | 17.54   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 29.04   | 8.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 75.50   | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.66    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 13.50  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31    | 0.84    | 0.00    | 0.00    | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41    | 0.59    | 0.00    | 0.00    | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23    | 0.43    | 0.00    | 0.00    | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.41    | 0.31    | 0.82    | 0.11    | 0.10   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 124.57  | 19.71   | 69.27   | 14.61   | 24.38  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | -124.57 | -19.71  | -69.27  | -14.61  | 470.62 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | -202.14 | -221.85 | -291.12 | -305.73 | 164.89 |

Note: Cost of production estimates are based on 2017 input prices.

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

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

\* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, double crop after wheat, RR, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

|          |       |      | PERCENT       |              |              |              |             |            |            |            |            |            |            |
|----------|-------|------|---------------|--------------|--------------|--------------|-------------|------------|------------|------------|------------|------------|------------|
| PRODUCT  |       |      | 75            | 80           | 85           | 90           | 95          | 100        | 105        | 110        | 115        | 120        | 125        |
|          |       |      | PRODUCT PRICE |              |              |              |             |            |            |            |            |            |            |
| Soybeans |       |      | 7.42          | 7.92         | 8.41         | 8.91         | 9.40        | 9.90       | 10.39      | 10.89      | 11.38      | 11.88      | 12.37      |
| PERCENT  | YIELD | UNIT | dollars       |              |              |              |             |            |            |            |            |            |            |
| 50       | 25.00 | bu   | -137<br>-161  | -125<br>-149 | -112<br>-136 | -100<br>-124 | -88<br>-112 | -75<br>-99 | -63<br>-87 | -51<br>-75 | -38<br>-62 | -26<br>-50 | -13<br>-37 |
| 60       | 30.00 | bu   | -101<br>-125  | -87<br>-111  | -72<br>-96   | -57<br>-81   | -42<br>-66  | -27<br>-51 | -12<br>-36 | 2<br>-22   | 16<br>-7   | 31<br>7    | 46<br>22   |
| 70       | 35.00 | bu   | -66<br>-90    | -48<br>-72   | -31<br>-55   | -14<br>-38   | 3<br>-20    | 20<br>-3   | 37<br>13   | 55<br>31   | 72<br>48   | 89<br>65   | 107<br>83  |
| 80       | 40.00 | bu   | -30<br>-54    | -10<br>-34   | 9<br>-14     | 29<br>4      | 48<br>24    | 68<br>44   | 88<br>64   | 108<br>84  | 128<br>103 | 147<br>123 | 167<br>143 |
| 90       | 45.00 | bu   | 5<br>-18      | 27<br>3      | 49<br>25     | 72<br>48     | 94<br>70    | 116<br>92  | 139<br>115 | 161<br>137 | 183<br>159 | 205<br>181 | 228<br>204 |
| 100      | 50.00 | bu   | 41<br>17      | 65<br>41     | 90<br>66     | 115<br>91    | 140<br>116  | 164<br>140 | 189<br>165 | 214<br>190 | 239<br>215 | 263<br>239 | 288<br>264 |
| 110      | 55.00 | bu   | 76<br>52      | 104<br>80    | 131<br>107   | 158<br>134   | 185<br>161  | 213<br>189 | 240<br>216 | 267<br>243 | 294<br>270 | 321<br>297 | 349<br>325 |
| 120      | 60.00 | bu   | 112<br>88     | 142<br>118   | 172<br>148   | 201<br>177   | 231<br>207  | 261<br>237 | 290<br>266 | 320<br>296 | 350<br>326 | 379<br>355 | 409<br>385 |
| 130      | 65.00 | bu   | 148<br>124    | 180<br>156   | 212<br>188   | 244<br>220   | 277<br>253  | 309<br>285 | 341<br>317 | 373<br>349 | 405<br>381 | 438<br>414 | 470<br>446 |
| 140      | 70.00 | bu   | 184<br>160    | 218<br>194   | 253<br>229   | 288<br>264   | 322<br>298  | 357<br>333 | 392<br>368 | 426<br>402 | 461<br>437 | 496<br>472 | 530<br>506 |
| 150      | 75.00 | bu   | 219<br>195    | 257<br>233   | 294<br>270   | 331<br>307   | 368<br>344  | 405<br>381 | 442<br>418 | 479<br>455 | 516<br>492 | 554<br>530 | 591<br>567 |

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 2017 input prices.

Table 7.A Estimated costs per acre  
Soybeans, full-season, RR, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 2.0000   | 13.00   | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 96.0000  | 13.44   | _____     |
| 2,4-D Amine 4            | pt   | 2.40    | 2.0000   | 4.80    | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2         | lb   | 1.51    | 50.0000  | 75.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 43.0000  | 11.61   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.3128   | 4.23    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1051   | 0.96    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 3.0592   | 5.52    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 4.69    | 1.0000   | 4.69    | _____     |
| Tractors                 | acre | 1.68    | 1.0000   | 1.68    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.22    | 1.0000   | 7.22    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 278.48  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 9.30    | 1.0000   | 9.30    | _____     |
| Tractors                 | acre | 10.65   | 1.0000   | 10.65   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 33.72   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 312.20  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.



Table 7.B Summary of estimated costs and returns per acre  
Soybeans, full-season, RR, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 43.0000  | 425.70  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 425.70  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 13.00   | 1.0000   | 13.00   | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 60.90   | 1.0000   | 60.90   | _____     |
| INSECTICIDES                           | acre | 5.57    | 1.0000   | 5.57    | _____     |
| SEED/PLANTS                            | acre | 75.50   | 1.0000   | 75.50   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 11.61   | 1.0000   | 11.61   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1051   | 0.96    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.4149   | 5.61    | _____     |
| UNALLOCATED LABOR                      | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 4.4528   | 8.03    | _____     |
| REPAIR & MAINTENANCE                   | acre | 9.86    | 1.0000   | 9.86    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.22    | 1.0000   | 7.22    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 278.48  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 147.22  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 33.72   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 312.20  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 113.50  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.C Estimated resource use for field operations, per acre  
Soybeans, full-season, RR, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Oct | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.6600          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |           |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08      | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Mar | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| 2,4-D Amine 4                 | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Plant - Folding               | 12R-30        | MFWD 190           | 0.062        | 1.00          | Apr |                 | 0.06      | 0.06          | 0.12           | 0.05           |
| Soybean Seed RR2              | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Sep |                 | 0.10      | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 43.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Sep |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.41      | 0.41          | 0.52           | 0.37           |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 7.D Estimated costs for field operations, per acre  
Soybeans, full-season, RR, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 12.38                 |      |      |       |       |       | 0.59   | 12.97         | 12.97         |
| Potash (60% K2O)              | cwt           | 18.98                 |      |      |       |       |       | 0.90   | 19.88         | 19.88         |
| Disk Harrow                   | 24'           |                       | 1.44 | 1.38 | 2.11  |       |       | 0.23   | 5.16          | 4.78          |
| Field Cultivate Fld           | 24'           |                       | 1.10 | 0.79 | 1.60  |       |       | 0.17   | 3.66          | 4.03          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.18   | 6.68          | 6.68          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.12   | 4.60          | 4.60          |
| 2,4-D Amine 4                 | pt            | 4.80                  |      |      |       |       |       | 0.13   | 4.93          | 4.93          |
| Plant - Folding               | 12R-30        |                       | 1.11 | 1.83 | 2.18  |       |       | 0.12   | 5.24          | 5.00          |
| Soybean Seed RR2              | lb            | 75.50                 |      |      |       |       |       | 1.79   | 77.29         | 77.29         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.09   | 4.57          | 4.57          |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.26   | 13.32         | 13.32         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.13   | 6.63          | 6.63          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.09   | 4.57          | 4.57          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.01   | 1.75          | 1.24          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.04   | 5.61          | 5.61          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |      |      |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |      |      |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.62  |       |       | 0.04   | 9.54          | 15.10         |
| Haul Soybeans                 | bu            | 11.61                 |      |      |       |       |       | 0.05   | 11.66         | 11.66         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37 | 0.32 | 0.55  |       |       |        | 1.24          | 1.09          |
| TOTALS                        |               | 241.76                | 8.03 | 9.86 | 11.61 | 0.00  | 7.22  | 278.48 | 33.72         | 312.20        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 7.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, RR, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 425.70 |
| DIRECT EXPENSES       |        |        |        |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 31.36  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 9.28   | 29.60   | 22.02   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 5.57    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 75.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.00    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 11.61  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 6.50    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 3.71   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.18    | 1.70    | 0.00    | 0.00    | 0.85    | 3.17   |
| 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                  | 2.54   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.11    | 1.00    | 0.00    | 0.00    | 0.50    | 2.88   |
| REPAIR & MAINTENANCE  | 2.17   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.83    | 0.78    | 0.00    | 0.00    | 0.39    | 4.69   |
| INTEREST ON OP. CAP.  | 3.14   | 0.00   | 0.00   | 0.00   | 0.00   | 0.43   | 2.80    | 0.63    | 0.00    | 0.00    | 0.13    | 0.09   |
| TOTAL DIRECT EXPENSES | 69.07  | 0.00   | 0.00   | 0.00   | 0.00   | 16.21  | 121.13  | 32.63   | 0.00    | 0.00    | 17.00   | 22.44  |
| NET INCOME            | -69.07 | 0.00   | 0.00   | 0.00   | 0.00   | -16.21 | -121.13 | -32.63  | 0.00    | 0.00    | -17.00  | 403.26 |
| NET INCOME TO DATE    | -69.07 | -69.07 | -69.07 | -69.07 | -69.07 | -85.28 | -206.41 | -239.04 | -239.04 | -239.04 | -256.04 | 147.22 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, RR, April planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| PRODUCT       | PERCENT |      |         |      |      |      |       |       |       |       |       |     |     |
|---------------|---------|------|---------|------|------|------|-------|-------|-------|-------|-------|-----|-----|
|               | 75      | 80   | 85      | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |     |     |
| PRODUCT PRICE |         |      |         |      |      |      |       |       |       |       |       |     |     |
| Soybeans      | 7.42    | 7.92 | 8.41    | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |     |     |
| PERCENT       | YIELD   | UNIT | dollars |      |      |      |       |       |       |       |       |     |     |
| 50            | 21.50   | bu   | -113    | -102 | -91  | -81  | -70   | -59   | -49   | -38   | -27   | -17 | -6  |
|               |         |      | -146    | -136 | -125 | -114 | -104  | -93   | -82   | -72   | -61   | -50 | -40 |
| 60            | 25.80   | bu   | -82     | -69  | -56  | -43  | -31   | -18   | -5    | 7     | 19    | 32  | 45  |
|               |         |      | -115    | -103 | -90  | -77  | -64   | -52   | -39   | -26   | -13   | -1  | 11  |
| 70            | 30.10   | bu   | -51     | -36  | -21  | -6   | 8     | 23    | 37    | 52    | 67    | 82  | 97  |
|               |         |      | -85     | -70  | -55  | -40  | -25   | -10   | 4     | 19    | 33    | 48  | 63  |
| 80            | 34.40   | bu   | -20     | -3   | 13   | 30   | 47    | 64    | 81    | 98    | 115   | 132 | 149 |
|               |         |      | -54     | -37  | -20  | -3   | 13    | 30    | 47    | 64    | 81    | 98  | 115 |
| 90            | 38.70   | bu   | 10      | 29   | 48   | 67   | 86    | 105   | 124   | 144   | 163   | 182 | 201 |
|               |         |      | -23     | -4   | 14   | 33   | 52    | 72    | 91    | 110   | 129   | 148 | 167 |
| 100           | 43.00   | bu   | 40      | 62   | 83   | 104  | 125   | 147   | 168   | 189   | 211   | 232 | 253 |
|               |         |      | 7       | 28   | 49   | 70   | 92    | 113   | 134   | 156   | 177   | 198 | 219 |
| 110           | 47.30   | bu   | 71      | 94   | 118  | 141  | 165   | 188   | 212   | 235   | 258   | 282 | 305 |
|               |         |      | 37      | 61   | 84   | 108  | 131   | 154   | 178   | 201   | 225   | 248 | 271 |
| 120           | 51.60   | bu   | 102     | 127  | 153  | 178  | 204   | 230   | 255   | 281   | 306   | 332 | 357 |
|               |         |      | 68      | 94   | 119  | 145  | 170   | 196   | 221   | 247   | 272   | 298 | 324 |
| 130           | 55.90   | bu   | 133     | 160  | 188  | 216  | 243   | 271   | 299   | 326   | 354   | 382 | 409 |
|               |         |      | 99      | 127  | 154  | 182  | 210   | 237   | 265   | 293   | 320   | 348 | 376 |
| 140           | 60.20   | bu   | 163     | 193  | 223  | 253  | 283   | 312   | 342   | 372   | 402   | 432 | 461 |
|               |         |      | 130     | 159  | 189  | 219  | 249   | 279   | 308   | 338   | 368   | 398 | 428 |
| 150           | 64.50   | bu   | 194     | 226  | 258  | 290  | 322   | 354   | 386   | 418   | 450   | 481 | 513 |
|               |         |      | 160     | 192  | 224  | 256  | 288   | 320   | 352   | 384   | 416   | 448 | 480 |

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 2017 input prices.

Table 8.A Estimated costs per acre  
Soybeans, full-season, RR, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| 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    | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 96.0000  | 13.44   | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| Fierce                   | oz   | 7.54    | 3.5000   | 26.39   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 96.0000  | 14.40   | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Dimilin 2L               | oz   | 1.45    | 1.0000   | 1.45    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Baythroid XL             | oz   | 2.65    | 1.0650   | 2.82    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2         | lb   | 1.51    | 50.0000  | 75.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 1.4500   | 4.76    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 40.0000  | 10.80   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.4647   | 6.27    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1523   | 1.38    | _____     |
| UNALLOCATED LABOR        | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 4.6579   | 8.40    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 6.17    | 1.0000   | 6.17    | _____     |
| Tractors                 | acre | 2.58    | 1.0000   | 2.58    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.95    | 1.0000   | 6.95    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 341.85  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 11.91   | 1.0000   | 11.91   | _____     |
| Tractors                 | acre | 16.27   | 1.0000   | 16.27   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 41.95   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 383.80  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.B Summary of estimated costs and returns per acre  
Soybeans, full-season, RR, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 40.0000  | 396.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 396.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 6.50    | 1.0000   | 6.50    | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 102.33  | 1.0000   | 102.33  | _____     |
| INSECTICIDES                           | acre | 22.75   | 1.0000   | 22.75   | _____     |
| SEED/PLANTS                            | acre | 75.50   | 1.0000   | 75.50   | _____     |
| ADJUVANTS                              | acre | 4.75    | 1.0000   | 4.75    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 10.80   | 1.0000   | 10.80   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1523   | 1.38    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.5669   | 7.65    | _____     |
| UNALLOCATED LABOR                      | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 6.0515   | 10.91   | _____     |
| REPAIR & MAINTENANCE                   | acre | 12.24   | 1.0000   | 12.24   | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.95    | 1.0000   | 6.95    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 341.85  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 54.15   | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 41.95   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 383.80  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 12.20   | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.C Estimated resource use for field operations, per acre  
 Soybeans, full-season, RR, May planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08      | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| Bed/Lister-Roll-Fold          | 12R-30        | MFWD 225           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Feb |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Apr | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.6600          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Apr |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Fierce                        | oz            |                    |              |               |     | 3.5000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 190           | 0.067        | 1.00          | May |                 | 0.06      | 0.06          | 0.13           | 0.06           |
| Soybean Seed RR2              | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Jun |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Jul |                 | 0.01      | 0.01          | 0.02           | 0.01           |
| Dimilin 2L                    | oz            |                    |              |               |     | 1.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.0500          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Aug |                 | 0.01      | 0.01          | 0.02           | 0.01           |
| Baythroid XL                  | oz            |                    |              |               |     | 1.0650          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Sep | 1.0000          |           |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 40.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.56      | 0.56          | 0.71           | 0.51           |

Note: Cost of production estimates are based on 2017 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.



Table 8.D Estimated costs for field operations, per acre  
Soybeans, full-season, RR, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.01   | 3.34          | 3.34          |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.06   | 15.38         | 15.38         |
| Disk Harrow                   | 24'           |                       | 1.44  | 1.38  | 2.11  |       |       | 0.02   | 4.95          | 4.78 9.73     |
| Field Cultivate Fld           | 24'           |                       | 1.10  | 0.79  | 1.60  |       |       | 0.01   | 3.50          | 4.03 7.53     |
| Bed/Lister-Roll-Fold          | 12R-30        |                       | 1.30  | 0.87  | 1.60  |       |       | 0.01   | 3.78          | 3.79 7.57     |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.06   | 1.80          | 1.24 3.04     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.16   | 4.64          | 4.64          |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.45   | 13.09         | 13.09         |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.05   | 1.36          | 1.36          |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.21   | 7.71          | 7.71          |
| Phosphorus (46% P2O5)         | cwt           | 12.38                 |       |       |       |       |       | 0.34   | 12.72         | 12.72         |
| Potash (60% K2O)              | cwt           | 18.98                 |       |       |       |       |       | 0.53   | 19.51         | 19.51         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.05   | 1.79          | 1.24 3.03     |
| Fierce                        | oz            | 26.39                 |       |       |       |       |       | 0.73   | 27.12         | 27.12         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.20   | 7.40          | 7.40          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.04   | 1.35          | 1.35          |
| Soybeans Consultant           | acre          | 6.50                  |       |       |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.19  | 2.16  | 2.34  |       |       | 0.14   | 5.83          | 5.72 11.55    |
| Soybean Seed RR2              | lb            | 75.50                 |       |       |       |       |       | 1.79   | 77.29         | 77.29         |
| CruiserMaxx                   | oz            | 6.80                  |       |       |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |       |       |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.04   | 1.78          | 1.24 3.02     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          | 4.59          |
| Prefix                        | pt            | 13.06                 |       |       |       |       |       | 0.31   | 13.37         | 13.37         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.03   | 1.77          | 1.24 3.01     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.09   | 4.57          | 4.57          |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Dimilin 2L                    | oz            | 1.45                  |       |       |       |       |       | 0.02   | 1.47          | 1.47          |
| Surfactant                    | pt            | 0.16                  |       |       |       |       |       |        | 0.16          | 0.16          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.02   | 1.76          | 1.24 3.00     |
| Prevathon                     | oz            | 18.48                 |       |       |       |       |       | 0.22   | 18.70         | 18.70         |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Baythroid XL                  | oz            | 2.82                  |       |       |       |       |       | 0.03   | 2.85          | 2.85          |
| App by Air ( 5 gal)           | appl          | 6.50                  |       |       |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |       |       |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51  | 4.37  | 2.62  |       |       | 0.04   | 9.54          | 15.10 24.64   |
| Haul Soybeans                 | bu            | 10.80                 |       |       |       |       |       | 0.04   | 10.84         | 10.84         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37  | 0.32  | 0.55  |       |       |        | 1.24          | 1.09 2.33     |
| TOTALS                        |               | 295.84                | 10.91 | 12.24 | 15.91 | 0.00  | 6.95  | 341.85 | 41.95         | 383.80        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 8.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, RR, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov  | Dec  | Jan  | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|------|------|------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 396.00 |
| DIRECT EXPENSES       |      |      |      |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 31.36  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 17.12  | 0.00   | 33.59  | 47.14   | 4.48    | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.45    | 21.30   | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 75.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 1.31   | 0.00   | 1.31   | 1.31    | 0.00    | 0.16    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 7.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 10.80  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.32  |
| CROP CONSULTANT       | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.50    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 3.33   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.85   | 0.00   | 0.85   | 3.19    | 0.85    | 0.42    | 1.27    | 0.00    | 8.48   |
| 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 | 0.50   | 0.00   | 0.50   | 1.69    | 0.50    | 0.25    | 0.75    | 0.00    | 6.72   |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.39   | 0.00   | 0.39   | 2.55    | 0.39    | 0.20    | 0.59    | 0.00    | 7.73   |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.72   | 0.00   | 2.10   | 3.43    | 0.12    | 0.03    | 0.28    | 0.08    | 0.19   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 20.89  | 0.00   | 77.60  | 148.11  | 6.34    | 2.51    | 24.19   | 9.64    | 52.57  |
| NET INCOME            | 0.00 | 0.00 | 0.00 | -20.89 | 0.00   | -77.60 | -148.11 | -6.34   | -2.51   | -24.19  | -9.64   | 343.43 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | -20.89 | -20.89 | -98.49 | -246.60 | -252.94 | -255.45 | -279.64 | -289.28 | 54.15  |

Note: Cost of production estimates are based on 2017 input prices.

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

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

\* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, RR, May planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

|          |       |      | PERCENT       |      |      |      |      |      |       |       |       |       |       |
|----------|-------|------|---------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| PRODUCT  |       |      | 75            | 80   | 85   | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |
| Soybeans |       |      | 7.42          | 7.92 | 8.41 | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |
|          |       |      | PRODUCT PRICE |      |      |      |      |      |       |       |       |       |       |
| PERCENT  | YIELD | UNIT | dollars       |      |      |      |      |      |       |       |       |       |       |
| 50       | 20.00 | bu   | -187          | -178 | -168 | -158 | -148 | -138 | -128  | -118  | -108  | -98   | -88   |
|          |       |      | -229          | -219 | -210 | -200 | -190 | -180 | -170  | -160  | -150  | -140  | -130  |
| 60       | 24.00 | bu   | -159          | -147 | -135 | -123 | -111 | -99  | -88   | -76   | -64   | -52   | -40   |
|          |       |      | -201          | -189 | -177 | -165 | -153 | -141 | -129  | -118  | -106  | -94   | -82   |
| 70       | 28.00 | bu   | -130          | -116 | -102 | -89  | -75  | -61  | -47   | -33   | -19   | -5    | 7     |
|          |       |      | -172          | -158 | -144 | -131 | -117 | -103 | -89   | -75   | -61   | -47   | -34   |
| 80       | 32.00 | bu   | -102          | -86  | -70  | -54  | -38  | -22  | -7    | 8     | 24    | 40    | 56    |
|          |       |      | -144          | -128 | -112 | -96  | -80  | -64  | -48   | -33   | -17   | -1    | 14    |
| 90       | 36.00 | bu   | -73           | -55  | -37  | -20  | -2   | 15   | 33    | 51    | 69    | 86    | 104   |
|          |       |      | -115          | -97  | -79  | -61  | -44  | -26  | -8    | 9     | 27    | 44    | 62    |
| 100      | 40.00 | bu   | -44           | -25  | -5   | 14   | 34   | 54   | 73    | 93    | 113   | 133   | 153   |
|          |       |      | -86           | -67  | -47  | -27  | -7   | 12   | 32    | 51    | 71    | 91    | 111   |
| 110      | 44.00 | bu   | -16           | 5    | 27   | 49   | 70   | 92   | 114   | 136   | 158   | 179   | 201   |
|          |       |      | -58           | -36  | -14  | 7    | 28   | 50   | 72    | 94    | 116   | 137   | 159   |
| 120      | 48.00 | bu   | 12            | 36   | 59   | 83   | 107  | 131  | 154   | 178   | 202   | 226   | 249   |
|          |       |      | -29           | -5   | 17   | 41   | 65   | 89   | 112   | 136   | 160   | 184   | 208   |
| 130      | 52.00 | bu   | 40            | 66   | 92   | 118  | 143  | 169  | 195   | 221   | 246   | 272   | 298   |
|          |       |      | -0            | 24   | 50   | 76   | 102  | 127  | 153   | 179   | 204   | 230   | 256   |
| 140      | 56.00 | bu   | 69            | 97   | 125  | 152  | 180  | 208  | 235   | 263   | 291   | 319   | 346   |
|          |       |      | 27            | 55   | 83   | 110  | 138  | 166  | 193   | 221   | 249   | 277   | 304   |
| 150      | 60.00 | bu   | 98            | 127  | 157  | 187  | 217  | 246  | 276   | 306   | 335   | 365   | 395   |
|          |       |      | 56            | 85   | 115  | 145  | 175  | 204  | 234   | 264   | 293   | 323   | 353   |

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 2017 input prices.

Table 9.A Estimated costs per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| 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   | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz   | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt \$8    | acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2         | lb   | 1.51    | 50.0000  | 75.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.5000   | 1.64    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 25.0000  | 6.75    | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize                 | oz   | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.79    | 1.0000   | 6.79    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 296.95  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 320.97  | _____     |

Note: Cost of production estimates are based on 2017 input price.

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

Table 9.B Summary of estimated costs and returns per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 25.0000  | 247.50  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 247.50  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 19.50   | 1.0000   | 19.50   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 47.14   | 1.0000   | 47.14   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 75.50   | 1.0000   | 75.50   | _____     |
| ADJUVANTS                              | acre | 1.64    | 1.0000   | 1.64    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 6.75    | 1.0000   | 6.75    | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.79    | 1.0000   | 6.79    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 296.95  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | -49.45  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 320.97  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | -73.47  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 9.C Estimated resource use for field operations, per acre  
 Soybeans, double crop after wheat, RR, 12R 30"  
 Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed RR2              | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 25.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| <b>TOTALS</b>                 |               |                    |              |               |     | -----           |           |               |                |                |
|                               |               |                    |              |               |     | 0.21            | 0.21      | 0.30          | 0.18           |                |

Note: Cost of production estimates are based on 2017 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         | 17.08         |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         | 26.44         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          |
| Soybean Seed RR2              | lb            | 75.50                 |      |      |       |       |       | 1.49   | 76.99         | 76.99         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          | 6.93          |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          | 3.06          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         | 22.84         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          | 7.34          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.07   | 4.55          | 4.55          |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.21   | 13.27         | 13.27         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          | 5.64          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         | 18.70         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          | 5.05          |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          | 8.06          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         |
| Haul Soybeans                 | bu            | 6.75                  |      |      |       |       |       | 0.03   | 6.78          | 6.78          |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          |
| TOTALS                        |               | 271.57                | 4.95 | 7.38 | 6.26  | 0.00  | 6.79  | 296.95 | 24.02         | 320.97        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 9.E Estimated monthly income and expense flows per acre  
Soybeans, double crop after wheat, RR, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 247.50 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 13.00   | 6.50    | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60   | 17.54   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 29.04   | 8.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 75.50   | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.33    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 6.75   |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31    | 0.84    | 0.00    | 0.00    | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41    | 0.59    | 0.00    | 0.00    | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23    | 0.43    | 0.00    | 0.00    | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.41    | 0.31    | 0.51    | 0.11    | 0.08   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 124.57  | 19.71   | 42.88   | 14.61   | 17.61  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | -124.57 | -19.71  | -42.88  | -14.61  | 229.89 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | -202.14 | -221.85 | -264.73 | -279.34 | -49.45 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 9.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, double crop after wheat, RR, 12R 30"  
 Non-irrigated, All Areas, Mississippi, 2018

|          |       |      | PERCENT      |              |              |              |              |              |              |              |              |              |              |
|----------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT  |       |      | 75           | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120          | 125          |
| Soybeans |       |      | 7.42         | 7.92         | 8.41         | 8.91         | 9.40         | 9.90         | 10.39        | 10.89        | 11.38        | 11.88        | 12.37        |
|          |       |      | dollars      |              |              |              |              |              |              |              |              |              |              |
| PERCENT  | YIELD | UNIT |              |              |              |              |              |              |              |              |              |              |              |
| 50       | 12.50 | bu   | -200<br>-224 | -194<br>-218 | -188<br>-212 | -182<br>-206 | -175<br>-200 | -169<br>-193 | -163<br>-187 | -157<br>-181 | -151<br>-175 | -145<br>-169 | -138<br>-162 |
| 60       | 15.00 | bu   | -182<br>-206 | -175<br>-199 | -168<br>-192 | -160<br>-184 | -153<br>-177 | -145<br>-169 | -138<br>-162 | -130<br>-154 | -123<br>-147 | -116<br>-140 | -108<br>-132 |
| 70       | 17.50 | bu   | -164<br>-188 | -156<br>-180 | -147<br>-171 | -138<br>-163 | -130<br>-154 | -121<br>-145 | -113<br>-137 | -104<br>-128 | -95<br>-119  | -87<br>-111  | -78<br>-102  |
| 80       | 20.00 | bu   | -147<br>-171 | -137<br>-161 | -127<br>-151 | -117<br>-141 | -107<br>-131 | -97<br>-121  | -87<br>-111  | -77<br>-101  | -67<br>-91   | -57<br>-82   | -48<br>-72   |
| 90       | 22.50 | bu   | -129<br>-153 | -118<br>-142 | -106<br>-130 | -95<br>-119  | -84<br>-108  | -73<br>-97   | -62<br>-86   | -51<br>-75   | -40<br>-64   | -28<br>-52   | -17<br>-41   |
| 100      | 25.00 | bu   | -111<br>-135 | -98<br>-122  | -86<br>-110  | -74<br>-98   | -61<br>-85   | -49<br>-73   | -37<br>-61   | -24<br>-48   | -12<br>-36   | 0<br>-23     | 12<br>-11    |
| 110      | 27.50 | bu   | -93<br>-117  | -79<br>-103  | -66<br>-90   | -52<br>-76   | -38<br>-63   | -25<br>-49   | -11<br>-35   | 1<br>-22     | 15<br>-8     | 29<br>5      | 42<br>18     |
| 120      | 30.00 | bu   | -75<br>-99   | -60<br>-84   | -45<br>-69   | -31<br>-55   | -16<br>-40   | -1<br>-25    | 13<br>-10    | 28<br>4      | 43<br>19     | 58<br>34     | 72<br>48     |
| 130      | 32.50 | bu   | -57<br>-81   | -41<br>-65   | -25<br>-49   | -9<br>-33    | 6<br>-17     | 22<br>-1     | 38<br>14     | 54<br>30     | 71<br>47     | 87<br>63     | 103<br>79    |
| 140      | 35.00 | bu   | -39<br>-63   | -22<br>-46   | -5<br>-29    | 12<br>-11    | 29<br>5      | 46<br>22     | 64<br>40     | 81<br>57     | 98<br>74     | 116<br>92    | 133<br>109   |
| 150      | 37.50 | bu   | -21<br>-45   | -3<br>-27    | 15<br>-8     | 33<br>9      | 52<br>28     | 70<br>46     | 89<br>65     | 108<br>84    | 126<br>102   | 145<br>121   | 163<br>139   |

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 2017 input prices.

Table 10.A Estimated costs per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 4.0000   | 26.00   | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| Quadris Top SBX          | oz   | 2.75    | 7.0000   | 19.25   | _____     |
| HERBICIDES               |      |         |          |         |           |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz   | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt \$8    | acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2X        | lb   | 1.47    | 50.0000  | 73.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 50.0000  | 13.50   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize                 | oz   | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.08    | 1.0000   | 7.08    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 328.07  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 352.09  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.B Summary of estimated costs and returns per acre  
 Soybeans, double crop after wheat, RR2X, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 50.0000  | 495.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 495.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 26.00   | 1.0000   | 26.00   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 26.05   | 1.0000   | 26.05   | _____     |
| HERBICIDES                             | acre | 47.14   | 1.0000   | 47.14   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 73.50   | 1.0000   | 73.50   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 13.50   | 1.0000   | 13.50   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.08    | 1.0000   | 7.08    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 328.07  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 166.93  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 352.09  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 142.91  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.C Estimated resource use for field operations, per acre  
 Soybeans, double crop after wheat, RR2X, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus (46% P2O5)         | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed RR2X             | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Quadris Top SBX               | oz            |                    |              |               |     | 7.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 50.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.21      | 0.21          | 0.30           | 0.18           |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |       |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|-------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |       |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |       |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          |               | 3.49  |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         |               | 16.05 |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          |               | 7.86  |
| Phosphorus(46% P2O5)          | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         |               | 17.08 |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         |               | 26.44 |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          |               | 6.65  |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          | 12.29 |
| Soybean Seed RR2X             | lb            | 73.50                 |      |      |       |       |       | 1.45   | 74.95         |               | 74.95 |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          |               | 6.93  |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          |               | 3.06  |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         |               | 22.84 |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          |               | 7.34  |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          |               | 1.34  |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          | 3.34  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.07   | 4.55          |               | 4.55  |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.21   | 13.27         |               | 13.27 |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          |               | 6.58  |
| Quadris Top SBX               | oz            | 19.25                 |      |      |       |       |       | 0.23   | 19.48         |               | 19.48 |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          |               | 0.33  |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          |               | 6.58  |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          |               | 5.64  |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          |               | 6.58  |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         |               | 18.70 |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          |               | 0.33  |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          |               | 5.05  |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |       |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          |               | 6.55  |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          |               | 8.06  |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         | 24.59 |
| Haul Soybeans                 | bu            | 13.50                 |      |      |       |       |       | 0.05   | 13.55         |               | 13.55 |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          | 2.59  |
| TOTALS                        |               | 302.40                | 4.95 | 7.38 | 6.26  | 0.00  | 7.08  | 328.07 | 24.02         | 352.09        |       |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 10.E Estimated monthly income and expense flows per acre  
 Soybeans, double crop after wheat, RR2X, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 495.00 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 19.50   | 6.50    | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 19.25   | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60   | 17.54   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 29.04   | 8.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 73.50   | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.66    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 13.50  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31    | 0.84    | 0.00    | 0.00    | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41    | 0.59    | 0.00    | 0.00    | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23    | 0.43    | 0.00    | 0.00    | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.37    | 0.31    | 0.82    | 0.11    | 0.10   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 122.53  | 19.71   | 69.27   | 14.61   | 24.38  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | -122.53 | -19.71  | -69.27  | -14.61  | 470.62 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | -200.10 | -219.81 | -289.08 | -303.69 | 166.93 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, double crop after wheat, RR2X, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

|          |       |      | -----PERCENT-----       |      |      |      |      |      |       |       |       |       |       |
|----------|-------|------|-------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| PRODUCT  |       |      | 75                      | 80   | 85   | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |
|          |       |      | -----PRODUCT PRICE----- |      |      |      |      |      |       |       |       |       |       |
| Soybeans |       |      | 7.42                    | 7.92 | 8.41 | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |
|          |       |      | -----dollars-----       |      |      |      |      |      |       |       |       |       |       |
| PERCENT  | YIELD | UNIT |                         |      |      |      |      |      |       |       |       |       |       |
| 50       | 25.00 | bu   | -135                    | -123 | -110 | -98  | -86  | -73  | -61   | -49   | -36   | -24   | -11   |
|          |       |      | -159                    | -147 | -134 | -122 | -110 | -97  | -85   | -73   | -60   | -48   | -35   |
| 60       | 30.00 | bu   | -99                     | -85  | -70  | -55  | -40  | -25  | -10   | 4     | 18    | 33    | 48    |
|          |       |      | -123                    | -109 | -94  | -79  | -64  | -49  | -34   | -19   | -5    | 9     | 24    |
| 70       | 35.00 | bu   | -64                     | -46  | -29  | -12  | 5    | 22   | 39    | 57    | 74    | 91    | 109   |
|          |       |      | -88                     | -70  | -53  | -36  | -18  | -1   | 15    | 33    | 50    | 67    | 85    |
| 80       | 40.00 | bu   | -28                     | -8   | 11   | 31   | 50   | 70   | 90    | 110   | 130   | 149   | 169   |
|          |       |      | -52                     | -32  | -12  | 7    | 26   | 46   | 66    | 86    | 106   | 125   | 145   |
| 90       | 45.00 | bu   | 7                       | 29   | 51   | 74   | 96   | 118  | 141   | 163   | 185   | 207   | 230   |
|          |       |      | -16                     | 5    | 27   | 50   | 72   | 94   | 117   | 139   | 161   | 183   | 206   |
| 100      | 50.00 | bu   | 43                      | 67   | 92   | 117  | 142  | 166  | 191   | 216   | 241   | 265   | 290   |
|          |       |      | 19                      | 43   | 68   | 93   | 118  | 142  | 167   | 192   | 217   | 241   | 266   |
| 110      | 55.00 | bu   | 78                      | 106  | 133  | 160  | 187  | 215  | 242   | 269   | 296   | 323   | 351   |
|          |       |      | 54                      | 82   | 109  | 136  | 163  | 191  | 218   | 245   | 272   | 299   | 327   |
| 120      | 60.00 | bu   | 114                     | 144  | 174  | 203  | 233  | 263  | 292   | 322   | 352   | 382   | 411   |
|          |       |      | 90                      | 120  | 150  | 179  | 209  | 239  | 268   | 298   | 328   | 358   | 387   |
| 130      | 65.00 | bu   | 150                     | 182  | 214  | 247  | 279  | 311  | 343   | 375   | 407   | 440   | 472   |
|          |       |      | 126                     | 158  | 190  | 222  | 255  | 287  | 319   | 351   | 383   | 416   | 448   |
| 140      | 70.00 | bu   | 186                     | 220  | 255  | 290  | 324  | 359  | 394   | 428   | 463   | 498   | 532   |
|          |       |      | 162                     | 196  | 231  | 266  | 300  | 335  | 370   | 404   | 439   | 474   | 508   |
| 150      | 75.00 | bu   | 222                     | 259  | 296  | 333  | 370  | 407  | 444   | 481   | 519   | 556   | 593   |
|          |       |      | 198                     | 235  | 272  | 309  | 346  | 383  | 420   | 457   | 495   | 532   | 569   |

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 2017 input prices.

Table 11.A Estimated costs per acre  
Soybeans, full-season, RR2X, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 2.0000   | 13.00   | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 96.0000  | 13.44   | _____     |
| 2,4-D Amine 4            | pt   | 2.40    | 2.0000   | 4.80    | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2X        | lb   | 1.47    | 50.0000  | 73.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 43.0000  | 11.61   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.3128   | 4.23    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1051   | 0.96    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 3.0592   | 5.52    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 4.69    | 1.0000   | 4.69    | _____     |
| Tractors                 | acre | 1.68    | 1.0000   | 1.68    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.18    | 1.0000   | 7.18    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 276.44  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 9.30    | 1.0000   | 9.30    | _____     |
| Tractors                 | acre | 10.65   | 1.0000   | 10.65   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 33.72   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 310.16  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.



Table 11.B Summary of estimated costs and returns per acre  
Soybeans, full-season, RR2X, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 43.0000  | 425.70  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 425.70  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 13.00   | 1.0000   | 13.00   | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 60.90   | 1.0000   | 60.90   | _____     |
| INSECTICIDES                           | acre | 5.57    | 1.0000   | 5.57    | _____     |
| SEED/PLANTS                            | acre | 73.50   | 1.0000   | 73.50   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 11.61   | 1.0000   | 11.61   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1051   | 0.96    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.4149   | 5.61    | _____     |
| UNALLOCATED LABOR                      | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 4.4528   | 8.03    | _____     |
| REPAIR & MAINTENANCE                   | acre | 9.86    | 1.0000   | 9.86    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.18    | 1.0000   | 7.18    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 276.44  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 149.26  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 33.72   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 310.16  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 115.54  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre..

Table 11.C Estimated resource use for field operations, per acre  
 Soybeans, full-season, RR2X, April planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Oct | 1.0000          |           |               |                |                |
| Phosphorus (46% P2O5)         | cwt           |                    |              |               |     | 0.6600          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |           |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08      | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Mar | 1.0000          |           |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| 2,4-D Amine 4                 | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Plant - Folding               | 12R-30        | MFWD 190           | 0.062        | 1.00          | Apr |                 | 0.06      | 0.06          | 0.12           | 0.05           |
| Soybean Seed RR2X             | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Sep |                 | 0.10      | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 43.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Sep |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.41      | 0.41          | 0.52           | 0.37           |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre  
Soybeans, full-season, RR2X, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 12.38                 |      |      |       |       |       | 0.59   | 12.97         | 12.97         |
| Potash (60% K2O)              | cwt           | 18.98                 |      |      |       |       |       | 0.90   | 19.88         | 19.88         |
| Disk Harrow                   | 24'           |                       | 1.44 | 1.38 | 2.11  |       |       | 0.23   | 5.16          | 4.78          |
| Field Cultivate Fld           | 24'           |                       | 1.10 | 0.79 | 1.60  |       |       | 0.17   | 3.66          | 4.03          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.18   | 6.68          | 6.68          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.12   | 4.60          | 4.60          |
| 2,4-D Amine 4                 | pt            | 4.80                  |      |      |       |       |       | 0.13   | 4.93          | 4.93          |
| Plant - Folding               | 12R-30        |                       | 1.11 | 1.83 | 2.18  |       |       | 0.12   | 5.24          | 5.00          |
| Soybean Seed RR2X             | lb            | 73.50                 |      |      |       |       |       | 1.75   | 75.25         | 75.25         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.09   | 4.57          | 4.57          |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.26   | 13.32         | 13.32         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.13   | 6.63          | 6.63          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.09   | 4.57          | 4.57          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.01   | 1.75          | 1.24          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.04   | 5.61          | 5.61          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |      |      |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |      |      |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.62  |       |       | 0.04   | 9.54          | 15.10         |
| Haul Soybeans                 | bu            | 11.61                 |      |      |       |       |       | 0.05   | 11.66         | 11.66         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37 | 0.32 | 0.55  |       |       |        | 1.24          | 1.09          |
| TOTALS                        |               | 239.76                | 8.03 | 9.86 | 11.61 | 0.00  | 7.18  | 276.44 | 33.72         | 310.16        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 11.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, RR2X, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 425.70 |
| DIRECT EXPENSES       |        |        |        |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 31.36  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 9.28   | 29.60   | 22.02   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 5.57    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 73.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.00    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 11.61  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 6.50    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 3.71   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.18    | 1.70    | 0.00    | 0.00    | 0.85    | 3.17   |
| 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                  | 2.54   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.11    | 1.00    | 0.00    | 0.00    | 0.50    | 2.88   |
| REPAIR & MAINTENANCE  | 2.17   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.83    | 0.78    | 0.00    | 0.00    | 0.39    | 4.69   |
| INTEREST ON OP. CAP.  | 3.14   | 0.00   | 0.00   | 0.00   | 0.00   | 0.43   | 2.76    | 0.63    | 0.00    | 0.00    | 0.13    | 0.09   |
| TOTAL DIRECT EXPENSES | 69.07  | 0.00   | 0.00   | 0.00   | 0.00   | 16.21  | 119.09  | 32.63   | 0.00    | 0.00    | 17.00   | 22.44  |
| NET INCOME            | -69.07 | 0.00   | 0.00   | 0.00   | 0.00   | -16.21 | -119.09 | -32.63  | 0.00    | 0.00    | -17.00  | 403.26 |
| NET INCOME TO DATE    | -69.07 | -69.07 | -69.07 | -69.07 | -69.07 | -85.28 | -204.37 | -237.00 | -237.00 | -237.00 | -254.00 | 149.26 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, RR2X, April planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| PRODUCT       | PERCENT |      |         |      |      |      |       |       |       |       |       |     |     |
|---------------|---------|------|---------|------|------|------|-------|-------|-------|-------|-------|-----|-----|
|               | 75      | 80   | 85      | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |     |     |
| PRODUCT PRICE |         |      |         |      |      |      |       |       |       |       |       |     |     |
| Soybeans      | 7.42    | 7.92 | 8.41    | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |     |     |
| PERCENT       | YIELD   | UNIT | dollars |      |      |      |       |       |       |       |       |     |     |
| 50            | 21.50   | bu   | -110    | -100 | -89  | -79  | -68   | -57   | -47   | -36   | -25   | -15 | -4  |
|               |         |      | -144    | -134 | -123 | -112 | -102  | -91   | -80   | -70   | -59   | -48 | -38 |
| 60            | 25.80   | bu   | -80     | -67  | -54  | -41  | -29   | -16   | -3    | 9     | 21    | 34  | 47  |
|               |         |      | -113    | -101 | -88  | -75  | -62   | -50   | -37   | -24   | -11   | 1   | 13  |
| 70            | 30.10   | bu   | -49     | -34  | -19  | -4   | 10    | 25    | 39    | 54    | 69    | 84  | 99  |
|               |         |      | -83     | -68  | -53  | -38  | -23   | -8    | 6     | 21    | 36    | 50  | 65  |
| 80            | 34.40   | bu   | -18     | -1   | 15   | 32   | 49    | 66    | 83    | 100   | 117   | 134 | 151 |
|               |         |      | -52     | -35  | -18  | -1   | 15    | 32    | 49    | 66    | 83    | 100 | 117 |
| 90            | 38.70   | bu   | 12      | 31   | 50   | 69   | 88    | 107   | 127   | 146   | 165   | 184 | 203 |
|               |         |      | -21     | -2   | 16   | 35   | 54    | 74    | 93    | 112   | 131   | 150 | 169 |
| 100           | 43.00   | bu   | 42      | 64   | 85   | 106  | 127   | 149   | 170   | 191   | 213   | 234 | 255 |
|               |         |      | 9       | 30   | 51   | 72   | 94    | 115   | 136   | 158   | 179   | 200 | 221 |
| 110           | 47.30   | bu   | 73      | 97   | 120  | 143  | 167   | 190   | 214   | 237   | 260   | 284 | 307 |
|               |         |      | 39      | 63   | 86   | 110  | 133   | 156   | 180   | 203   | 227   | 250 | 274 |
| 120           | 51.60   | bu   | 104     | 129  | 155  | 180  | 206   | 232   | 257   | 283   | 308   | 334 | 359 |
|               |         |      | 70      | 96   | 121  | 147  | 172   | 198   | 223   | 249   | 274   | 300 | 326 |
| 130           | 55.90   | bu   | 135     | 162  | 190  | 218  | 245   | 273   | 301   | 328   | 356   | 384 | 411 |
|               |         |      | 101     | 129  | 156  | 184  | 212   | 239   | 267   | 295   | 322   | 350 | 378 |
| 140           | 60.20   | bu   | 165     | 195  | 225  | 255  | 285   | 314   | 344   | 374   | 404   | 434 | 463 |
|               |         |      | 132     | 161  | 191  | 221  | 251   | 281   | 310   | 340   | 370   | 400 | 430 |
| 150           | 64.50   | bu   | 196     | 228  | 260  | 292  | 324   | 356   | 388   | 420   | 452   | 483 | 515 |
|               |         |      | 162     | 194  | 226  | 258  | 290   | 322   | 354   | 386   | 418   | 450 | 482 |

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 2017 input prices.

Table 12.A Estimated costs per acre  
Soybeans, full-season, RR2X, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| 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    | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 96.0000  | 13.44   | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| Fierce                   | oz   | 7.54    | 3.5000   | 26.39   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 96.0000  | 14.40   | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Dimilin 2L               | oz   | 1.45    | 1.0000   | 1.45    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Baythroid XL             | oz   | 2.65    | 1.0650   | 2.82    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2X        | lb   | 1.47    | 50.0000  | 73.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 1.4500   | 4.76    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 40.0000  | 10.80   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.4647   | 6.27    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1523   | 1.38    | _____     |
| UNALLOCATED LABOR        | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 4.6579   | 8.40    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 6.17    | 1.0000   | 6.17    | _____     |
| Tractors                 | acre | 2.58    | 1.0000   | 2.58    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.91    | 1.0000   | 6.91    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 339.81  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 11.91   | 1.0000   | 11.91   | _____     |
| Tractors                 | acre | 16.27   | 1.0000   | 16.27   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 41.95   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 381.76  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre  
Soybeans, full-season, RR2X, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 40.0000  | 396.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 396.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 6.50    | 1.0000   | 6.50    | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 102.33  | 1.0000   | 102.33  | _____     |
| INSECTICIDES                           | acre | 22.75   | 1.0000   | 22.75   | _____     |
| SEED/PLANTS                            | acre | 73.50   | 1.0000   | 73.50   | _____     |
| ADJUVANTS                              | acre | 4.75    | 1.0000   | 4.75    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 10.80   | 1.0000   | 10.80   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1523   | 1.38    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.5669   | 7.65    | _____     |
| UNALLOCATED LABOR                      | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 6.0515   | 10.91   | _____     |
| REPAIR & MAINTENANCE                   | acre | 12.24   | 1.0000   | 12.24   | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.91    | 1.0000   | 6.91    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 339.81  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 56.19   | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 41.95   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 381.76  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 14.24   | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre  
Soybeans, full-season, RR2X, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08      | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| Bed/Lister-Roll-Fold          | 12R-30        | MFWD 225           | 0.062        | 1.00          | Oct |                 | 0.06      | 0.06          | 0.06           | 0.05           |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Feb |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Apr | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.6600          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Apr |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Fierce                        | oz            |                    |              |               |     | 3.5000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 190           | 0.067        | 1.00          | May |                 | 0.06      | 0.06          | 0.13           | 0.06           |
| Soybean Seed RR2X             | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Jun |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Jul |                 | 0.01      | 0.01          | 0.02           | 0.01           |
| Dimilin 2L                    | oz            |                    |              |               |     | 1.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.0500          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Aug |                 | 0.01      | 0.01          | 0.02           | 0.01           |
| Baythroid XL                  | oz            |                    |              |               |     | 1.0650          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Sep | 1.0000          |           |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 40.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.56      | 0.56          | 0.71           | 0.51           |

Note: Cost of production estimates are based on 2017 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.



Table 12.D Estimated costs for field operations, per acre  
Soybeans, full-season, RR2X, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.01   | 3.34          | 3.34          |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.06   | 15.38         | 15.38         |
| Disk Harrow                   | 24'           |                       | 1.44  | 1.38  | 2.11  |       |       | 0.02   | 4.95          | 4.78 9.73     |
| Field Cultivate Fld           | 24'           |                       | 1.10  | 0.79  | 1.60  |       |       | 0.01   | 3.50          | 4.03 7.53     |
| Bed/Lister-Roll-Fold          | 12R-30        |                       | 1.30  | 0.87  | 1.60  |       |       | 0.01   | 3.78          | 3.79 7.57     |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.06   | 1.80          | 1.24 3.04     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.16   | 4.64          | 4.64          |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.45   | 13.09         | 13.09         |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.05   | 1.36          | 1.36          |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.21   | 7.71          | 7.71          |
| Phosphorus (46% P2O5)         | cwt           | 12.38                 |       |       |       |       |       | 0.34   | 12.72         | 12.72         |
| Potash (60% K2O)              | cwt           | 18.98                 |       |       |       |       |       | 0.53   | 19.51         | 19.51         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.05   | 1.79          | 1.24 3.03     |
| Fierce                        | oz            | 26.39                 |       |       |       |       |       | 0.73   | 27.12         | 27.12         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.20   | 7.40          | 7.40          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.04   | 1.35          | 1.35          |
| Soybeans Consultant           | acre          | 6.50                  |       |       |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.19  | 2.16  | 2.34  |       |       | 0.14   | 5.83          | 5.72 11.55    |
| Soybean Seed RR2X             | lb            | 73.50                 |       |       |       |       |       | 1.75   | 75.25         | 75.25         |
| CruiserMaxx                   | oz            | 6.80                  |       |       |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |       |       |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.04   | 1.78          | 1.24 3.02     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.11   | 4.59          | 4.59          |
| Prefix                        | pt            | 13.06                 |       |       |       |       |       | 0.31   | 13.37         | 13.37         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.03   | 1.77          | 1.24 3.01     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.09   | 4.57          | 4.57          |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Dimilin 2L                    | oz            | 1.45                  |       |       |       |       |       | 0.02   | 1.47          | 1.47          |
| Surfactant                    | pt            | 0.16                  |       |       |       |       |       |        | 0.16          | 0.16          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.02   | 1.76          | 1.24 3.00     |
| Prevathon                     | oz            | 18.48                 |       |       |       |       |       | 0.22   | 18.70         | 18.70         |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Baythroid XL                  | oz            | 2.82                  |       |       |       |       |       | 0.03   | 2.85          | 2.85          |
| App by Air ( 5 gal)           | appl          | 6.50                  |       |       |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |       |       |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51  | 4.37  | 2.62  |       |       | 0.04   | 9.54          | 15.10 24.64   |
| Haul Soybeans                 | bu            | 10.80                 |       |       |       |       |       | 0.04   | 10.84         | 10.84         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37  | 0.32  | 0.55  |       |       |        | 1.24          | 1.09 2.33     |
| TOTALS                        |               | 293.84                | 10.91 | 12.24 | 15.91 | 0.00  | 6.91  | 339.81 | 41.95         | 381.76        |

Note: Cost of production estimates are based on 2017 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, RR2X, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov  | Dec  | Jan  | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|------|------|------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 396.00 |
| DIRECT EXPENSES       |      |      |      |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 31.36  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 17.12  | 0.00   | 33.59  | 47.14   | 4.48    | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.45    | 21.30   | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 73.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 1.31   | 0.00   | 1.31   | 1.31    | 0.00    | 0.16    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 7.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 10.80  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.32  |
| CROP CONSULTANT       | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.50    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 3.33   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.85   | 0.00   | 0.85   | 3.19    | 0.85    | 0.42    | 1.27    | 0.00    | 8.48   |
| 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 | 0.50   | 0.00   | 0.50   | 1.69    | 0.50    | 0.25    | 0.75    | 0.00    | 6.72   |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.39   | 0.00   | 0.39   | 2.55    | 0.39    | 0.20    | 0.59    | 0.00    | 7.73   |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.72   | 0.00   | 2.10   | 3.39    | 0.12    | 0.03    | 0.28    | 0.08    | 0.19   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 20.89  | 0.00   | 77.60  | 146.07  | 6.34    | 2.51    | 24.19   | 9.64    | 52.57  |
| NET INCOME            | 0.00 | 0.00 | 0.00 | -20.89 | 0.00   | -77.60 | -146.07 | -6.34   | -2.51   | -24.19  | -9.64   | 343.43 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | -20.89 | -20.89 | -98.49 | -244.56 | -250.90 | -253.41 | -277.60 | -287.24 | 56.19  |

Note: Cost of production estimates are based on 2017 input prices.

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

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

\* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, RR2X, May planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

|          |       |      | PERCENT       |              |              |              |              |              |              |              |              |             |             |
|----------|-------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| PRODUCT  |       |      | 75            | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120         | 125         |
|          |       |      | PRODUCT PRICE |              |              |              |              |              |              |              |              |             |             |
| Soybeans |       |      | 7.42          | 7.92         | 8.41         | 8.91         | 9.40         | 9.90         | 10.39        | 10.89        | 11.38        | 11.88       | 12.37       |
| PERCENT  | YIELD | UNIT | dollars       |              |              |              |              |              |              |              |              |             |             |
| 50       | 20.00 | bu   | -185<br>-227  | -175<br>-217 | -166<br>-208 | -156<br>-198 | -146<br>-188 | -136<br>-178 | -126<br>-168 | -116<br>-158 | -106<br>-148 | -96<br>-138 | -86<br>-128 |
| 60       | 24.00 | bu   | -157<br>-199  | -145<br>-187 | -133<br>-175 | -121<br>-163 | -109<br>-151 | -97<br>-139  | -85<br>-127  | -74<br>-116  | -62<br>-104  | -50<br>-92  | -38<br>-80  |
| 70       | 28.00 | bu   | -128<br>-170  | -114<br>-156 | -100<br>-142 | -87<br>-129  | -73<br>-115  | -59<br>-101  | -45<br>-87   | -31<br>-73   | -17<br>-59   | -3<br>-45   | 9<br>-32    |
| 80       | 32.00 | bu   | -100<br>-141  | -84<br>-126  | -68<br>-110  | -52<br>-94   | -36<br>-78   | -20<br>-62   | -5<br>-46    | 10<br>-31    | 26<br>-15    | 42<br>0     | 58<br>16    |
| 90       | 36.00 | bu   | -71<br>-113   | -53<br>-95   | -35<br>-77   | -17<br>-59   | -0<br>-42    | 17<br>-24    | 35<br>-6     | 53<br>11     | 71<br>29     | 88<br>47    | 106<br>64   |
| 100      | 40.00 | bu   | -42<br>-84    | -23<br>-64   | -3<br>-45    | 16<br>-25    | 36<br>-5     | 56<br>14     | 75<br>34     | 95<br>53     | 115<br>73    | 135<br>93   | 155<br>113  |
| 110      | 44.00 | bu   | -14<br>-56    | 7<br>-34     | 29<br>-12    | 51<br>9      | 72<br>30     | 94<br>52     | 116<br>74    | 138<br>96    | 160<br>118   | 181<br>139  | 203<br>161  |
| 120      | 48.00 | bu   | 14<br>-27     | 38<br>-3     | 61<br>19     | 85<br>43     | 109<br>67    | 133<br>91    | 156<br>115   | 180<br>138   | 204<br>162   | 228<br>186  | 252<br>210  |
| 130      | 52.00 | bu   | 43<br>1       | 68<br>26     | 94<br>52     | 120<br>78    | 145<br>104   | 171<br>129   | 197<br>155   | 223<br>181   | 248<br>207   | 274<br>232  | 300<br>258  |
| 140      | 56.00 | bu   | 71<br>29      | 99<br>57     | 127<br>85    | 154<br>112   | 182<br>140   | 210<br>168   | 237<br>196   | 265<br>223   | 293<br>251   | 321<br>279  | 348<br>306  |
| 150      | 60.00 | bu   | 100<br>58     | 129<br>88    | 159<br>117   | 189<br>147   | 219<br>177   | 248<br>206   | 278<br>236   | 308<br>266   | 337<br>295   | 367<br>325  | 397<br>355  |

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 2017 input prices.

Table 13.A Estimated costs per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| 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   | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| Prefix                   | pt   | 6.53    | 2.0000   | 13.06   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz   | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt \$8    | acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed RR2X        | lb   | 1.47    | 50.0000  | 73.50   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.5000   | 1.64    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 25.0000  | 6.75    | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize                 | oz   | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.75    | 1.0000   | 6.75    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 294.91  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 318.93  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 25.0000  | 247.50  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 247.50  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 19.50   | 1.0000   | 19.50   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 47.14   | 1.0000   | 47.14   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 73.50   | 1.0000   | 73.50   | _____     |
| ADJUVANTS                              | acre | 1.64    | 1.0000   | 1.64    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 6.75    | 1.0000   | 6.75    | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.75    | 1.0000   | 6.75    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 294.91  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | -47.41  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 318.93  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | -71.43  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours-----               |               |                    |              |               |     |                 |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed RR2X             | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| Prefix                        | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 25.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
|                               |               |                    |              |               |     |                 | -----     |               |                |                |
| TOTALS                        |               |                    |              |               |     |                 | 0.21      | 0.21          | 0.30           | 0.18           |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 13.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         | 17.08         |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         | 26.44         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          |
| Soybean Seed RR2X             | lb            | 73.50                 |      |      |       |       |       | 1.45   | 74.95         | 74.95         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          | 6.93          |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          | 3.06          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         | 22.84         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          | 7.34          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.07   | 4.55          | 4.55          |
| Prefix                        | pt            | 13.06                 |      |      |       |       |       | 0.21   | 13.27         | 13.27         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          | 5.64          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         | 18.70         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          | 5.05          |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          | 8.06          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         |
| Haul Soybeans                 | bu            | 6.75                  |      |      |       |       |       | 0.03   | 6.78          | 6.78          |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          |
| TOTALS                        |               | 269.57                | 4.95 | 7.38 | 6.26  | 0.00  | 6.75  | 294.91 | 24.02         | 318.93        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 13.E Estimated monthly income and expense flows per acre  
Soybeans, double crop after wheat, RR2X, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 247.50 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 13.00   | 6.50    | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60   | 17.54   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 29.04   | 8.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 73.50   | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.33    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 6.75   |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31    | 0.84    | 0.00    | 0.00    | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41    | 0.59    | 0.00    | 0.00    | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23    | 0.43    | 0.00    | 0.00    | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.37    | 0.31    | 0.51    | 0.11    | 0.08   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 122.53  | 19.71   | 42.88   | 14.61   | 17.61  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | -122.53 | -19.71  | -42.88  | -14.61  | 229.89 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | -200.10 | -219.81 | -262.69 | -277.30 | -47.41 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 13.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, double crop after wheat, RR2X, 12R 30"  
 Non-irrigated, All Areas, Mississippi, 2018

|          |       |      | PERCENT       |              |              |              |              |              |              |              |              |              |              |
|----------|-------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT  |       |      | 75            | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120          | 125          |
| Soybeans |       |      | 7.42          | 7.92         | 8.41         | 8.91         | 9.40         | 9.90         | 10.39        | 10.89        | 11.38        | 11.88        | 12.37        |
|          |       |      | PRODUCT PRICE |              |              |              |              |              |              |              |              |              |              |
| PERCENT  | YIELD | UNIT | dollars       |              |              |              |              |              |              |              |              |              |              |
| 50       | 12.50 | bu   | -198<br>-222  | -192<br>-216 | -186<br>-210 | -180<br>-204 | -173<br>-197 | -167<br>-191 | -161<br>-185 | -155<br>-179 | -149<br>-173 | -143<br>-167 | -136<br>-160 |
| 60       | 15.00 | bu   | -180<br>-204  | -173<br>-197 | -165<br>-189 | -158<br>-182 | -151<br>-175 | -143<br>-167 | -136<br>-160 | -128<br>-152 | -121<br>-145 | -113<br>-138 | -106<br>-130 |
| 70       | 17.50 | bu   | -162<br>-186  | -154<br>-178 | -145<br>-169 | -136<br>-160 | -128<br>-152 | -119<br>-143 | -110<br>-134 | -102<br>-126 | -93<br>-117  | -84<br>-108  | -76<br>-100  |
| 80       | 20.00 | bu   | -145<br>-169  | -135<br>-159 | -125<br>-149 | -115<br>-139 | -105<br>-129 | -95<br>-119  | -85<br>-109  | -75<br>-99   | -65<br>-89   | -55<br>-79   | -46<br>-70   |
| 90       | 22.50 | bu   | -127<br>-151  | -116<br>-140 | -104<br>-128 | -93<br>-117  | -82<br>-106  | -71<br>-95   | -60<br>-84   | -49<br>-73   | -38<br>-62   | -26<br>-50   | -15<br>-39   |
| 100      | 25.00 | bu   | -109<br>-133  | -96<br>-120  | -84<br>-108  | -72<br>-96   | -59<br>-83   | -47<br>-71   | -35<br>-59   | -22<br>-46   | -10<br>-34   | 2<br>-21     | 14<br>-9     |
| 110      | 27.50 | bu   | -91<br>-115   | -77<br>-101  | -64<br>-88   | -50<br>-74   | -36<br>-60   | -23<br>-47   | -9<br>-33    | 3<br>-20     | 17<br>-6     | 31<br>7      | 44<br>20     |
| 120      | 30.00 | bu   | -73<br>-97    | -58<br>-82   | -43<br>-67   | -28<br>-52   | -14<br>-38   | 0<br>-23     | 15<br>-8     | 30<br>6      | 45<br>21     | 60<br>36     | 74<br>50     |
| 130      | 32.50 | bu   | -55<br>-79    | -39<br>-63   | -23<br>-47   | -7<br>-31    | 8<br>-15     | 24<br>0      | 40<br>16     | 56<br>32     | 73<br>49     | 89<br>65     | 105<br>81    |
| 140      | 35.00 | bu   | -37<br>-61    | -20<br>-44   | -3<br>-27    | 14<br>-9     | 31<br>7      | 48<br>24     | 66<br>42     | 83<br>59     | 100<br>76    | 118<br>94    | 135<br>111   |
| 150      | 37.50 | bu   | -19<br>-43    | -1<br>-25    | 17<br>-6     | 35<br>11     | 54<br>30     | 72<br>48     | 91<br>67     | 110<br>86    | 128<br>104   | 147<br>123   | 165<br>141   |

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 2017 input prices.

Table 14.A Estimated costs per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                     | UNIT     | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|----------|---------|----------|---------|-----------|
|                          |          | dollars |          | dollars |           |
| DIRECT EXPENSES          |          |         |          |         |           |
| CUSTOM SPRAY             |          |         |          |         |           |
| App by Air ( 5 gal)      | appl     | 6.50    | 4.0000   | 26.00   | _____     |
| FERTILIZERS              |          |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt      | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt      | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |          |         |          |         |           |
| CruiserMaxx              | oz       | 4.25    | 1.6000   | 6.80    | _____     |
| Quadris Top SBX          | oz       | 2.75    | 7.0000   | 19.25   | _____     |
| HERBICIDES               |          |         |          |         |           |
| Boundary                 | pt       | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz       | 0.15    | 48.0000  | 7.20    | _____     |
| Liberty 280              | oz       | 0.60    | 29.0000  | 17.40   | _____     |
| Dual Magnum              | pt       | 13.80   | 1.0000   | 13.80   | _____     |
| INSECTICIDES             |          |         |          |         |           |
| Acephate 90SP            | lb       | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz       | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz       | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt        | \$8 acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |          |         |          |         |           |
| Soybean Seed LL          | lb       | 1.28    | 50.0000  | 64.00   | _____     |
| ADJUVANTS                |          |         |          |         |           |
| Surfactant               | pt       | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |          |         |          |         |           |
| Custom Apply Fert        | acre     | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |          |         |          |         |           |
| Haul Soybeans            | bu       | 0.27    | 50.0000  | 13.50   | _____     |
| CUSTOM LIME              |          |         |          |         |           |
| Lime (Spread)            | ton      | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |          |         |          |         |           |
| Soybeans Consultant      | acre     | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |          |         |          |         |           |
| Optimize                 | oz       | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |          |         |          |         |           |
| Soil Test                | acre     | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |          |         |          |         |           |
| Tractors                 | hour     | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour     | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |          |         |          |         |           |
| Implements               | hour     | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        | hour     | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |          |         |          |         |           |
| Tractors                 | gal      | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal      | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |          |         |          |         |           |
| Implements               | acre     | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre     | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre     | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre     | 7.12    | 1.0000   | 7.12    | _____     |
| TOTAL DIRECT EXPENSES    |          |         |          | 332.27  | _____     |
| FIXED EXPENSES           |          |         |          |         |           |
| Implements               | acre     | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre     | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre     | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |          |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |          |         |          | 356.29  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre  
 Soybeans, double crop after wheat, LL, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 50.0000  | 495.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 495.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 26.00   | 1.0000   | 26.00   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 26.05   | 1.0000   | 26.05   | _____     |
| HERBICIDES                             | acre | 60.80   | 1.0000   | 60.80   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 64.00   | 1.0000   | 64.00   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 13.50   | 1.0000   | 13.50   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.12    | 1.0000   | 7.12    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 332.27  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 162.73  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 356.29  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 138.71  | _____     |

Note: Cost of production estimates are based on 2017 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre  
 Soybeans, double crop after wheat, LL, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed LL               | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |           |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Quadris Top SBX               | oz            |                    |              |               |     | 7.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 50.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.21      | 0.21          | 0.30           | 0.18           |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 14.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus (46% P2O5)         | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         | 17.08         |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         | 26.44         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          |
| Soybean Seed LL               | lb            | 64.00                 |      |      |       |       |       | 1.27   | 65.27         | 65.27         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          | 6.93          |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          | 3.06          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         | 22.84         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          | 7.34          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          |
| Liberty 280                   | oz            | 17.40                 |      |      |       |       |       | 0.28   | 17.68         | 17.68         |
| Dual Magnum                   | pt            | 13.80                 |      |      |       |       |       | 0.22   | 14.02         | 14.02         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Quadris Top SBX               | oz            | 19.25                 |      |      |       |       |       | 0.23   | 19.48         | 19.48         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          | 5.64          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         | 18.70         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          | 5.05          |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          | 8.06          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         |
| Haul Soybeans                 | bu            | 13.50                 |      |      |       |       |       | 0.05   | 13.55         | 13.55         |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          |
| TOTALS                        |               | 306.56                | 4.95 | 7.38 | 6.26  | 0.00  | 7.12  | 332.27 | 24.02         | 356.29        |

Note: Cost of production estimates are based on 2017 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre  
 Soybeans, double crop after wheat, LL, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 495.00 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 19.50   | 6.50    | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 19.25   | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60   | 31.20   | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 29.04   | 8.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 64.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.66    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 13.50  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31    | 0.84    | 0.00    | 0.00    | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41    | 0.59    | 0.00    | 0.00    | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23    | 0.43    | 0.00    | 0.00    | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.19    | 0.53    | 0.82    | 0.11    | 0.10   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 112.85  | 33.59   | 69.27   | 14.61   | 24.38  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | -112.85 | -33.59  | -69.27  | -14.61  | 470.62 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | -190.42 | -224.01 | -293.28 | -307.89 | 162.73 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, double crop after wheat, LL, 12R 30"  
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2018

|          |       |      | PERCENT      |              |              |              |             |             |            |            |            |            |            |
|----------|-------|------|--------------|--------------|--------------|--------------|-------------|-------------|------------|------------|------------|------------|------------|
| PRODUCT  |       |      | 75           | 80           | 85           | 90           | 95          | 100         | 105        | 110        | 115        | 120        | 125        |
| Soybeans |       |      | 7.42         | 7.92         | 8.41         | 8.91         | 9.40        | 9.90        | 10.39      | 10.89      | 11.38      | 11.88      | 12.37      |
| PERCENT  | YIELD | UNIT | dollars      |              |              |              |             |             |            |            |            |            |            |
| 50       | 25.00 | bu   | -139<br>-163 | -127<br>-151 | -115<br>-139 | -102<br>-126 | -90<br>-114 | -77<br>-102 | -65<br>-89 | -53<br>-77 | -40<br>-64 | -28<br>-52 | -16<br>-40 |
| 60       | 30.00 | bu   | -104<br>-128 | -89<br>-113  | -74<br>-98   | -59<br>-83   | -44<br>-68  | -29<br>-53  | -15<br>-39 | -0<br>-24  | 14<br>-9   | 29<br>5    | 44<br>20   |
| 70       | 35.00 | bu   | -68<br>-92   | -51<br>-75   | -33<br>-57   | -16<br>-40   | 0<br>-23    | 18<br>-5    | 35<br>11   | 52<br>28   | 70<br>46   | 87<br>63   | 104<br>80  |
| 80       | 40.00 | bu   | -32<br>-56   | -12<br>-36   | 7<br>-16     | 26<br>2      | 46<br>22    | 66<br>42    | 86<br>62   | 106<br>82  | 125<br>101 | 145<br>121 | 165<br>141 |
| 90       | 45.00 | bu   | 3<br>-20     | 25<br>1      | 47<br>23     | 70<br>46     | 92<br>68    | 114<br>90   | 136<br>112 | 159<br>135 | 181<br>157 | 203<br>179 | 225<br>201 |
| 100      | 50.00 | bu   | 38<br>14     | 63<br>39     | 88<br>64     | 113<br>89    | 137<br>113  | 162<br>138  | 187<br>163 | 212<br>188 | 236<br>212 | 261<br>237 | 286<br>262 |
| 110      | 55.00 | bu   | 74<br>50     | 101<br>77    | 129<br>105   | 156<br>132   | 183<br>159  | 210<br>186  | 238<br>214 | 265<br>241 | 292<br>268 | 319<br>295 | 347<br>322 |
| 120      | 60.00 | bu   | 110<br>86    | 140<br>116   | 169<br>145   | 199<br>175   | 229<br>205  | 259<br>235  | 288<br>264 | 318<br>294 | 348<br>324 | 377<br>353 | 407<br>383 |
| 130      | 65.00 | bu   | 146<br>122   | 178<br>154   | 210<br>186   | 242<br>218   | 274<br>250  | 307<br>283  | 339<br>315 | 371<br>347 | 403<br>379 | 435<br>411 | 468<br>444 |
| 140      | 70.00 | bu   | 182<br>158   | 216<br>192   | 251<br>227   | 286<br>261   | 320<br>296  | 355<br>331  | 389<br>365 | 424<br>400 | 459<br>435 | 493<br>469 | 528<br>504 |
| 150      | 75.00 | bu   | 217<br>193   | 254<br>230   | 292<br>268   | 329<br>305   | 366<br>342  | 403<br>379  | 440<br>416 | 477<br>453 | 514<br>490 | 551<br>527 | 589<br>565 |

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 2017 input prices.

Table 15.A Estimated costs per acre  
Soybeans, full-season, LL, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 2.0000   | 13.00   | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| 2,4-D Amine 4            | pt   | 2.40    | 2.0000   | 4.80    | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Liberty 280              | oz   | 0.60    | 58.0000  | 34.80   | _____     |
| Dual Magnum              | pt   | 13.80   | 1.0000   | 13.80   | _____     |
| Zidua                    | oz   | 9.05    | 1.5000   | 13.58   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed LL          | lb   | 1.28    | 50.0000  | 64.00   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.6000   | 1.97    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 43.0000  | 11.61   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.3128   | 4.23    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1051   | 0.96    | _____     |
| UNALLOCATED LABOR        | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 3.0592   | 5.52    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 4.69    | 1.0000   | 4.69    | _____     |
| Tractors                 | acre | 1.68    | 1.0000   | 1.68    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.73    | 1.0000   | 7.73    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 307.65  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 9.30    | 1.0000   | 9.30    | _____     |
| Tractors                 | acre | 10.65   | 1.0000   | 10.65   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 33.72   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 341.37  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.



Table 15.B Summary of estimated costs and returns per acre  
Soybeans, full-season, LL, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 43.0000  | 425.70  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 425.70  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 13.00   | 1.0000   | 13.00   | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 101.06  | 1.0000   | 101.06  | _____     |
| INSECTICIDES                           | acre | 5.57    | 1.0000   | 5.57    | _____     |
| SEED/PLANTS                            | acre | 64.00   | 1.0000   | 64.00   | _____     |
| ADJUVANTS                              | acre | 1.97    | 1.0000   | 1.97    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 11.61   | 1.0000   | 11.61   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1051   | 0.96    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.4149   | 5.61    | _____     |
| UNALLOCATED LABOR                      | hour | 13.49   | 0.3734   | 5.04    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 4.4528   | 8.03    | _____     |
| REPAIR & MAINTENANCE                   | acre | 9.86    | 1.0000   | 9.86    | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.73    | 1.0000   | 7.73    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 307.65  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 118.05  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 33.72   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 341.37  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 84.33   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 15.C Estimated resource use for field operations, per acre  
 Soybeans, full-season, LL, April planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT       | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
|                               |               |                    |              |               |     |                 | -----hours----- |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |                 |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |                 |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Oct | 1.0000          |                 |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.6600          |                 |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |                 |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08            | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06            | 0.06          | 0.06           | 0.05           |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Mar | 1.0000          |                 |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |                 |               |                |                |
| 2,4-D Amine 4                 | pt            |                    |              |               |     | 2.0000          |                 |               |                |                |
| Plant - Folding               | 12R-30        | MFWD 190           | 0.062        | 1.00          | Apr |                 | 0.06            | 0.06          | 0.12           | 0.05           |
| Soybean Seed LL               | lb            |                    |              |               |     | 50.0000         |                 |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |                 |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |                 |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |                 |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |                 |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02            | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |                 |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |                 |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |                 |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02            | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |                 |               |                |                |
| Zidua                         | oz            |                    |              |               |     | 1.5000          |                 |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02            | 0.02          | 0.04           | 0.02           |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |                 |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |                 |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |                 |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |                 |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Sep |                 | 0.10            | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 43.0000         |                 |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Sep |                 | 0.02            | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.41            | 0.41          | 0.52           | 0.37           |

Note: Cost of production estimates are based on 2017 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.D Estimated costs for field operations, per acre  
Soybeans, full-season, LL, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus (46% P2O5)         | cwt           | 12.38                 |      |      |       |       |       | 0.59   | 12.97         | 12.97         |
| Potash (60% K2O)              | cwt           | 18.98                 |      |      |       |       |       | 0.90   | 19.88         | 19.88         |
| Disk Harrow                   | 24'           |                       | 1.44 | 1.38 | 2.11  |       |       | 0.23   | 5.16          | 4.78          |
| Field Cultivate Fld           | 24'           |                       | 1.10 | 0.79 | 1.60  |       |       | 0.17   | 3.66          | 4.03          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.18   | 6.68          | 6.68          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |      |       |       |       | 0.12   | 4.60          | 4.60          |
| 2,4-D Amine 4                 | pt            | 4.80                  |      |      |       |       |       | 0.13   | 4.93          | 4.93          |
| Plant - Folding               | 12R-30        |                       | 1.11 | 1.83 | 2.18  |       |       | 0.12   | 5.24          | 5.00          |
| Soybean Seed LL               | lb            | 64.00                 |      |      |       |       |       | 1.52   | 65.52         | 65.52         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Liberty 280                   | oz            | 17.40                 |      |      |       |       |       | 0.34   | 17.74         | 17.74         |
| Dual Magnum                   | pt            | 13.80                 |      |      |       |       |       | 0.27   | 14.07         | 14.07         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.13   | 6.63          | 6.63          |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.03   | 1.77          | 1.24          |
| Liberty 280                   | oz            | 17.40                 |      |      |       |       |       | 0.34   | 17.74         | 17.74         |
| Zidua                         | oz            | 13.58                 |      |      |       |       |       | 0.27   | 13.85         | 13.85         |
| Spray (Broadcast)             | 60'           |                       | 0.50 | 0.39 | 0.85  |       |       | 0.01   | 1.75          | 1.24          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.04   | 5.61          | 5.61          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |      |      |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |      |      |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.62  |       |       | 0.04   | 9.54          | 15.10         |
| Haul Soybeans                 | bu            | 11.61                 |      |      |       |       |       | 0.05   | 11.66         | 11.66         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37 | 0.32 | 0.55  |       |       |        | 1.24          | 1.09          |
| TOTALS                        |               | 270.42                | 8.03 | 9.86 | 11.61 | 0.00  | 7.73  | 307.65 | 33.72         | 341.37        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 15.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, LL, April planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 425.70 |
| DIRECT EXPENSES       |        |        |        |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 31.36  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 9.28   | 29.60   | 62.18   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 5.57    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 64.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31    | 0.00    | 0.00    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 11.61  |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 6.50    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 3.71   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.18    | 1.70    | 0.00    | 0.00    | 0.85    | 3.17   |
| 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                  | 2.54   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.11    | 1.00    | 0.00    | 0.00    | 0.50    | 2.88   |
| REPAIR & MAINTENANCE  | 2.17   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.83    | 0.78    | 0.00    | 0.00    | 0.39    | 4.69   |
| INTEREST ON OP. CAP.  | 3.14   | 0.00   | 0.00   | 0.00   | 0.00   | 0.43   | 2.53    | 1.41    | 0.00    | 0.00    | 0.13    | 0.09   |
| TOTAL DIRECT EXPENSES | 69.07  | 0.00   | 0.00   | 0.00   | 0.00   | 16.21  | 109.36  | 73.57   | 0.00    | 0.00    | 17.00   | 22.44  |
| NET INCOME            | -69.07 | 0.00   | 0.00   | 0.00   | 0.00   | -16.21 | -109.36 | -73.57  | 0.00    | 0.00    | -17.00  | 403.26 |
| NET INCOME TO DATE    | -69.07 | -69.07 | -69.07 | -69.07 | -69.07 | -85.28 | -194.64 | -268.21 | -268.21 | -268.21 | -285.21 | 118.05 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, LL, April planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| PRODUCT       | PERCENT |      |         |      |      |      |       |       |       |       |       |     |     |
|---------------|---------|------|---------|------|------|------|-------|-------|-------|-------|-------|-----|-----|
|               | 75      | 80   | 85      | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |     |     |
| PRODUCT PRICE |         |      |         |      |      |      |       |       |       |       |       |     |     |
| Soybeans      | 7.42    | 7.92 | 8.41    | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |     |     |
| PERCENT       | YIELD   | UNIT | dollars |      |      |      |       |       |       |       |       |     |     |
| 50            | 21.50   | bu   | -142    | -131 | -120 | -110 | -99   | -88   | -78   | -67   | -57   | -46 | -35 |
|               |         |      | -175    | -165 | -154 | -143 | -133  | -122  | -112  | -101  | -90   | -80 | -69 |
| 60            | 25.80   | bu   | -111    | -98  | -85  | -73  | -60   | -47   | -34   | -22   | -9    | 3   | 16  |
|               |         |      | -145    | -132 | -119 | -106 | -94   | -81   | -68   | -55   | -42   | -30 | -17 |
| 70            | 30.10   | bu   | -80     | -65  | -50  | -35  | -21   | -6    | 8     | 23    | 38    | 53  | 68  |
|               |         |      | -114    | -99  | -84  | -69  | -54   | -39   | -24   | -10   | 4     | 19  | 34  |
| 80            | 34.40   | bu   | -49     | -32  | -15  | 1    | 18    | 35    | 52    | 69    | 86    | 103 | 120 |
|               |         |      | -83     | -66  | -49  | -32  | -15   | 1     | 18    | 35    | 52    | 69  | 86  |
| 90            | 38.70   | bu   | -19     | 0    | 19   | 38   | 57    | 76    | 95    | 114   | 134   | 153 | 172 |
|               |         |      | -52     | -33  | -14  | 4    | 23    | 42    | 62    | 81    | 100   | 119 | 138 |
| 100           | 43.00   | bu   | 11      | 32   | 54   | 75   | 96    | 118   | 139   | 160   | 181   | 203 | 224 |
|               |         |      | -22     | -0   | 20   | 41   | 63    | 84    | 105   | 126   | 148   | 169 | 190 |
| 110           | 47.30   | bu   | 42      | 65   | 89   | 112  | 136   | 159   | 182   | 206   | 229   | 253 | 276 |
|               |         |      | 8       | 32   | 55   | 78   | 102   | 125   | 149   | 172   | 195   | 219 | 242 |
| 120           | 51.60   | bu   | 73      | 98   | 124  | 149  | 175   | 200   | 226   | 251   | 277   | 303 | 328 |
|               |         |      | 39      | 64   | 90   | 116  | 141   | 167   | 192   | 218   | 243   | 269 | 294 |
| 130           | 55.90   | bu   | 103     | 131  | 159  | 186  | 214   | 242   | 269   | 297   | 325   | 352 | 380 |
|               |         |      | 70      | 97   | 125  | 153  | 180   | 208   | 236   | 263   | 291   | 319 | 346 |
| 140           | 60.20   | bu   | 134     | 164  | 194  | 224  | 253   | 283   | 313   | 343   | 373   | 402 | 432 |
|               |         |      | 100     | 130  | 160  | 190  | 220   | 249   | 279   | 309   | 339   | 369 | 398 |
| 150           | 64.50   | bu   | 165     | 197  | 229  | 261  | 293   | 325   | 356   | 388   | 420   | 452 | 484 |
|               |         |      | 131     | 163  | 195  | 227  | 259   | 291   | 323   | 355   | 387   | 419 | 450 |

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 2017 input prices.

Table 16.A Estimated costs per acre  
Soybeans, full-season, LL, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| 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    | _____     |
| HARVEST AIDS             |      |         |          |         |           |
| Gramoxone SL             | oz   | 0.15    | 16.0000  | 2.40    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.6600   | 12.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| Fierce                   | oz   | 7.54    | 3.5000   | 26.39   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 96.0000  | 14.40   | _____     |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Liberty 280              | oz   | 0.60    | 58.0000  | 34.80   | _____     |
| Dual Magnum              | pt   | 13.80   | 1.0000   | 13.80   | _____     |
| Zidua                    | oz   | 9.05    | 1.5000   | 13.58   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Dimilin 2L               | oz   | 1.45    | 1.0000   | 1.45    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Baythroid XL             | oz   | 2.65    | 1.0650   | 2.82    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed LL          | lb   | 1.28    | 50.0000  | 64.00   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 1.4500   | 4.76    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 40.0000  | 10.80   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.4647   | 6.27    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1523   | 1.38    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 4.6579   | 8.40    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 6.17    | 1.0000   | 6.17    | _____     |
| Tractors                 | acre | 2.58    | 1.0000   | 2.58    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.52    | 1.0000   | 7.52    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 371.08  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 11.91   | 1.0000   | 11.91   | _____     |
| Tractors                 | acre | 16.27   | 1.0000   | 16.27   | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 41.95   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 413.03  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.B Summary of estimated costs and returns per acre  
Soybeans, full-season, LL, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Soybeans                               | bu   | 9.90    | 40.0000  | 396.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 396.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 6.50    | 1.0000   | 6.50    | _____     |
| HARVEST AIDS                           | acre | 2.40    | 1.0000   | 2.40    | _____     |
| FERTILIZERS                            | acre | 31.36   | 1.0000   | 31.36   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 142.49  | 1.0000   | 142.49  | _____     |
| INSECTICIDES                           | acre | 22.75   | 1.0000   | 22.75   | _____     |
| SEED/PLANTS                            | acre | 64.00   | 1.0000   | 64.00   | _____     |
| ADJUVANTS                              | acre | 4.75    | 1.0000   | 4.75    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 10.80   | 1.0000   | 10.80   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1523   | 1.38    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.5669   | 7.65    | _____     |
| UNALLOCATED LABOR                      | hour | 13.48   | 0.5102   | 6.88    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 6.0515   | 10.91   | _____     |
| REPAIR & MAINTENANCE                   | acre | 12.24   | 1.0000   | 12.24   | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.52    | 1.0000   | 7.52    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 371.08  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 24.92   | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 41.95   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 413.03  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | -17.03  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.C Estimated resource use for field operations, per acre  
 Soybeans, full-season, LL, May planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT   | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-------------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |             |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |             |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.3330          |             |               |                |                |
| Disk Harrow                   | 24'           | MFWD 190           | 0.081        | 1.00          | Oct |                 | 0.08        | 0.08          | 0.08           | 0.07           |
| Field Cultivate Fld           | 24'           | MFWD 190           | 0.062        | 1.00          | Oct |                 | 0.06        | 0.06          | 0.06           | 0.05           |
| Bed/Lister-Roll-Fold          | 12R-30        | MFWD 225           | 0.062        | 1.00          | Oct |                 | 0.06        | 0.06          | 0.06           | 0.05           |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Feb |                 | 0.02        | 0.02          | 0.04           | 0.02           |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |             |               |                |                |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |             |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |             |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Apr | 1.0000          |             |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.6600          |             |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.0000          |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Apr |                 | 0.02        | 0.02          | 0.04           | 0.02           |
| Fierce                        | oz            |                    |              |               |     | 3.5000          |             |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |             |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |             |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |             |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 190           | 0.067        | 1.00          | May |                 | 0.06        | 0.06          | 0.13           | 0.06           |
| Soybean Seed LL               | lb            |                    |              |               |     | 50.0000         |             |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |             |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |             |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |             |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | May |                 | 0.02        | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |             |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Jun |                 | 0.02        | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |             |               |                |                |
| Zidua                         | oz            |                    |              |               |     | 1.5000          |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Jul |                 | 0.01        | 0.01          | 0.02           | 0.01           |
| Dimilin 2L                    | oz            |                    |              |               |     | 1.0000          |             |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.0500          |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 1.00          | Aug |                 | 0.02        | 0.02          | 0.04           | 0.02           |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |             |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 190           | 0.028        | 0.50          | Aug |                 | 0.01        | 0.01          | 0.02           | 0.01           |
| Baythroid XL                  | oz            |                    |              |               |     | 1.0650          |             |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Sep | 1.0000          |             |               |                |                |
| Gramoxone SL                  | oz            |                    |              |               |     | 16.0000         |             |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.2000          |             |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10        | 0.10          | 0.10           | 0.09           |
| Haul Soybeans                 | bu            |                    |              |               |     | 40.0000         |             |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 190           | 0.021        | 1.00          | Oct |                 | 0.02        | 0.02          | 0.02           | 0.01           |
| <b>TOTALS</b>                 |               |                    |              |               |     |                 | <b>0.56</b> | <b>0.56</b>   | <b>0.71</b>    | <b>0.51</b>    |

Note: Cost of production estimates are based on 2017 input prices.

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



Table 16.D Estimated costs for field operations, per acre  
Soybeans, full-season, LL, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.01   | 3.34          | 3.34          |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.06   | 15.38         | 15.38         |
| Disk Harrow                   | 24'           |                       | 1.44  | 1.38  | 2.11  |       |       | 0.02   | 4.95          | 4.78 9.73     |
| Field Cultivate Fld           | 24'           |                       | 1.10  | 0.79  | 1.60  |       |       | 0.01   | 3.50          | 4.03 7.53     |
| Bed/Lister-Roll-Fold          | 12R-30        |                       | 1.30  | 0.87  | 1.60  |       |       | 0.01   | 3.78          | 3.79 7.57     |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.06   | 1.80          | 1.24 3.04     |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.16   | 4.64          | 4.64          |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.45   | 13.09         | 13.09         |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.05   | 1.36          | 1.36          |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.21   | 7.71          | 7.71          |
| Phosphorus (46% P2O5)         | cwt           | 12.38                 |       |       |       |       |       | 0.34   | 12.72         | 12.72         |
| Potash (60% K2O)              | cwt           | 18.98                 |       |       |       |       |       | 0.53   | 19.51         | 19.51         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.05   | 1.79          | 1.24 3.03     |
| Fierce                        | oz            | 26.39                 |       |       |       |       |       | 0.73   | 27.12         | 27.12         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.20   | 7.40          | 7.40          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.04   | 1.35          | 1.35          |
| Soybeans Consultant           | acre          | 6.50                  |       |       |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.19  | 2.16  | 2.34  |       |       | 0.14   | 5.83          | 5.72 11.55    |
| Soybean Seed LL               | lb            | 64.00                 |       |       |       |       |       | 1.52   | 65.52         | 65.52         |
| CruiserMaxx                   | oz            | 6.80                  |       |       |       |       |       | 0.16   | 6.96          | 6.96          |
| Boundary                      | pt            | 22.40                 |       |       |       |       |       | 0.53   | 22.93         | 22.93         |
| Gramoxone SL 2.0              | oz            | 7.20                  |       |       |       |       |       | 0.17   | 7.37          | 7.37          |
| Surfactant                    | pt            | 1.31                  |       |       |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.04   | 1.78          | 1.24 3.02     |
| Liberty 280                   | oz            | 17.40                 |       |       |       |       |       | 0.41   | 17.81         | 17.81         |
| Dual Magnum                   | pt            | 13.80                 |       |       |       |       |       | 0.33   | 14.13         | 14.13         |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.03   | 1.77          | 1.24 3.01     |
| Liberty 280                   | oz            | 17.40                 |       |       |       |       |       | 0.34   | 17.74         | 17.74         |
| Zidua                         | oz            | 13.58                 |       |       |       |       |       | 0.27   | 13.85         | 13.85         |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Dimilin 2L                    | oz            | 1.45                  |       |       |       |       |       | 0.02   | 1.47          | 1.47          |
| Surfactant                    | pt            | 0.16                  |       |       |       |       |       |        | 0.16          | 0.16          |
| Spray (Broadcast)             | 60'           |                       | 0.50  | 0.39  | 0.85  |       |       | 0.02   | 1.76          | 1.24 3.00     |
| Prevathon                     | oz            | 18.48                 |       |       |       |       |       | 0.22   | 18.70         | 18.70         |
| Spray (Broadcast)             | 60'           |                       | 0.25  | 0.20  | 0.42  |       |       | 0.01   | 0.88          | 0.62 1.50     |
| Baythroid XL                  | oz            | 2.82                  |       |       |       |       |       | 0.03   | 2.85          | 2.85          |
| App by Air ( 5 gal)           | appl          | 6.50                  |       |       |       |       |       | 0.05   | 6.55          | 6.55          |
| Gramoxone SL                  | oz            | 2.40                  |       |       |       |       |       | 0.02   | 2.42          | 2.42          |
| Surfactant                    | pt            | 0.66                  |       |       |       |       |       | 0.01   | 0.67          | 0.67          |
| Header -Soybean               | 25' Flex      |                       | 2.51  | 4.37  | 2.62  |       |       | 0.04   | 9.54          | 15.10 24.64   |
| Haul Soybeans                 | bu            | 10.80                 |       |       |       |       |       | 0.04   | 10.84         | 10.84         |
| Grain Cart Soybean            | 700 bu        |                       | 0.37  | 0.32  | 0.55  |       |       |        | 1.24          | 1.09 2.33     |
| TOTALS                        |               | 324.50                | 10.91 | 12.24 | 15.91 | 0.00  | 7.52  | 371.08 | 41.95         | 413.03        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 16.E Estimated monthly income and expense flows per acre  
Soybeans, full-season, LL, May planted, 12R 30"  
Non-Delta Area, Mississippi, 2018

| ITEM                  | Nov  | Dec  | Jan  | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct    |
|-----------------------|------|------|------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 396.00 |
| DIRECT EXPENSES       |      |      |      |        |        |        |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00   |
| HARVEST AIDS          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 2.40    | 0.00   |
| FERTILIZERS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 31.36  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.80    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 17.12  | 0.00   | 33.59  | 60.80   | 30.98   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.45    | 21.30   | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 64.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 1.31   | 0.00   | 1.31   | 1.31    | 0.00    | 0.16    | 0.00    | 0.66    | 0.00   |
| CUSTOM FERTILIZE      | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 7.50   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 10.80  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15.32  |
| CROP CONSULTANT       | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 6.50    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 3.33   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.85   | 0.00   | 0.85   | 3.19    | 0.85    | 0.42    | 1.27    | 0.00    | 8.48   |
| 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 | 0.50   | 0.00   | 0.50   | 1.69    | 0.50    | 0.25    | 0.75    | 0.00    | 6.72   |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.39   | 0.00   | 0.39   | 2.55    | 0.39    | 0.20    | 0.59    | 0.00    | 7.73   |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.72   | 0.00   | 2.10   | 3.48    | 0.64    | 0.03    | 0.28    | 0.08    | 0.19   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 20.89  | 0.00   | 77.60  | 150.32  | 33.36   | 2.51    | 24.19   | 9.64    | 52.57  |
| NET INCOME            | 0.00 | 0.00 | 0.00 | -20.89 | 0.00   | -77.60 | -150.32 | -33.36  | -2.51   | -24.19  | -9.64   | 343.43 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | -20.89 | -20.89 | -98.49 | -248.81 | -282.17 | -284.68 | -308.87 | -318.51 | 24.92  |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, full-season, LL, May planted, 12R 30"  
 Non-Delta Area, Mississippi, 2018

|          |       |      | -----PERCENT-----       |      |      |      |      |      |       |       |       |       |       |
|----------|-------|------|-------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| PRODUCT  |       |      | 75                      | 80   | 85   | 90   | 95   | 100  | 105   | 110   | 115   | 120   | 125   |
|          |       |      | -----PRODUCT PRICE----- |      |      |      |      |      |       |       |       |       |       |
| Soybeans |       |      | 7.42                    | 7.92 | 8.41 | 8.91 | 9.40 | 9.90 | 10.39 | 10.89 | 11.38 | 11.88 | 12.37 |
|          |       |      | -----dollars-----       |      |      |      |      |      |       |       |       |       |       |
| PERCENT  | YIELD | UNIT |                         |      |      |      |      |      |       |       |       |       |       |
| 50       | 20.00 | bu   | -217                    | -207 | -197 | -187 | -177 | -167 | -157  | -147  | -137  | -128  | -118  |
|          |       |      | -259                    | -249 | -239 | -229 | -219 | -209 | -199  | -189  | -179  | -170  | -160  |
| 60       | 24.00 | bu   | -188                    | -176 | -164 | -152 | -141 | -129 | -117  | -105  | -93   | -81   | -69   |
|          |       |      | -230                    | -218 | -206 | -194 | -182 | -171 | -159  | -147  | -135  | -123  | -111  |
| 70       | 28.00 | bu   | -159                    | -146 | -132 | -118 | -104 | -90  | -76   | -62   | -49   | -35   | -21   |
|          |       |      | -201                    | -188 | -174 | -160 | -146 | -132 | -118  | -104  | -90   | -77   | -63   |
| 80       | 32.00 | bu   | -131                    | -115 | -99  | -83  | -67  | -52  | -36   | -20   | -4    | 11    | 27    |
|          |       |      | -173                    | -157 | -141 | -125 | -109 | -94  | -78   | -62   | -46   | -30   | -14   |
| 90       | 36.00 | bu   | -102                    | -84  | -67  | -49  | -31  | -13  | 4     | 22    | 39    | 57    | 75    |
|          |       |      | -144                    | -126 | -109 | -91  | -73  | -55  | -37   | -19   | -2    | 15    | 33    |
| 100      | 40.00 | bu   | -74                     | -54  | -34  | -14  | 5    | 24   | 44    | 64    | 84    | 104   | 123   |
|          |       |      | -116                    | -96  | -76  | -56  | -36  | -17  | 2     | 22    | 42    | 62    | 81    |
| 110      | 44.00 | bu   | -45                     | -23  | -1   | 19   | 41   | 63   | 85    | 106   | 128   | 150   | 172   |
|          |       |      | -87                     | -65  | -43  | -22  | -0   | 21   | 43    | 65    | 86    | 108   | 130   |
| 120      | 48.00 | bu   | -16                     | 6    | 30   | 54   | 78   | 101  | 125   | 149   | 173   | 196   | 220   |
|          |       |      | -58                     | -35  | -11  | 12   | 36   | 60   | 83    | 107   | 131   | 155   | 178   |
| 130      | 52.00 | bu   | 11                      | 37   | 63   | 88   | 114  | 140  | 166   | 191   | 217   | 243   | 269   |
|          |       |      | -30                     | -4   | 21   | 47   | 72   | 98   | 124   | 149   | 175   | 201   | 227   |
| 140      | 56.00 | bu   | 40                      | 68   | 95   | 123  | 151  | 178  | 206   | 234   | 262   | 289   | 317   |
|          |       |      | -1                      | 26   | 53   | 81   | 109  | 137  | 164   | 192   | 220   | 247   | 275   |
| 150      | 60.00 | bu   | 69                      | 98   | 128  | 158  | 187  | 217  | 247   | 276   | 306   | 336   | 366   |
|          |       |      | 27                      | 56   | 86   | 116  | 145  | 175  | 205   | 234   | 264   | 294   | 324   |

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 2017 input prices.

Table 17.A Estimated costs per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| 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   | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 0.8700   | 16.31   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.3300   | 25.24   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 1.6000   | 6.80    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Boundary                 | pt   | 11.20   | 2.0000   | 22.40   | _____     |
| Gramoxone SL 2.0         | oz   | 0.15    | 48.0000  | 7.20    | _____     |
| Liberty 280              | oz   | 0.60    | 29.0000  | 17.40   | _____     |
| Dual Magnum              | pt   | 13.80   | 1.0000   | 13.80   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Acephate 90SP            | lb   | 7.43    | 0.7500   | 5.57    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| Bifenthrin               | oz   | 0.78    | 6.4000   | 4.99    | _____     |
| IncidentalPestTrt \$8    | acre | 8.00    | 1.0000   | 8.00    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Soybean Seed LL          | lb   | 1.28    | 50.0000  | 64.00   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.5000   | 1.64    | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| Custom Apply Fert        | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Soybeans            | bu   | 0.27    | 25.0000  | 6.75    | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Soybeans Consultant      | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize                 | oz   | 2.14    | 1.4000   | 3.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.1171   | 1.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0817   | 0.74    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 1.3567   | 2.44    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.12    | 1.0000   | 3.12    | _____     |
| Tractors                 | acre | 0.77    | 1.0000   | 0.77    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.79    | 1.0000   | 6.79    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 299.11  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 5.40    | 1.0000   | 5.40    | _____     |
| Tractors                 | acre | 4.85    | 1.0000   | 4.85    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 24.02   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 323.13  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.B Summary of estimated costs and returns per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Wheat                                  | bu   | 4.71    | 65.0000  | 306.15  | _____     |
| Soybeans                               | bu   | 9.90    | 25.0000  | 247.50  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 553.65  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 19.50   | 1.0000   | 19.50   | _____     |
| FERTILIZERS                            | acre | 41.55   | 1.0000   | 41.55   | _____     |
| FUNGICIDES                             | acre | 6.80    | 1.0000   | 6.80    | _____     |
| HERBICIDES                             | acre | 60.80   | 1.0000   | 60.80   | _____     |
| INSECTICIDES                           | acre | 37.04   | 1.0000   | 37.04   | _____     |
| SEED/PLANTS                            | acre | 64.00   | 1.0000   | 64.00   | _____     |
| ADJUVANTS                              | acre | 1.64    | 1.0000   | 1.64    | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 6.75    | 1.0000   | 6.75    | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| CROP CONSULTANT                        | acre | 6.50    | 1.0000   | 6.50    | _____     |
| INOCULANT                              | acre | 3.00    | 1.0000   | 3.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.0817   | 0.74    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.2193   | 2.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.57   | 0.1886   | 2.56    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 2.7503   | 4.95    | _____     |
| REPAIR & MAINTENANCE                   | acre | 7.38    | 1.0000   | 7.38    | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.79    | 1.0000   | 6.79    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 299.11  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 254.54  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 24.02   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 323.13  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 230.52  | _____     |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre..

Table 17.C Estimated resource use for field operations, per acre  
 Soybeans, double crop after wheat, LL, 12R 30"  
 Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Nov | 0.3330          |           |               |                |                |
| Custom Apply Fert             | acre          |                    |              | 1.00          | Nov | 1.0000          |           |               |                |                |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 0.8700          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.3300          |           |               |                |                |
| Soybeans Consultant           | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Plant & Pre-Folding           | 12R-30        | MFWD 225           | 0.067        | 1.00          | Jun |                 | 0.06      | 0.06          | 0.13           | 0.05           |
| Soybean Seed LL               | lb            |                    |              |               |     | 50.0000         |           |               |                |                |
| CruiserMaxx                   | oz            |                    |              |               |     | 1.6000          |           |               |                |                |
| Optimize                      | oz            |                    |              |               |     | 1.4000          |           |               |                |                |
| Boundary                      | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Gramoxone SL 2.0              | oz            |                    |              |               |     | 48.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.4000          |           |               |                |                |
| Spray (Broadcast)             | 60'           | MFWD 225           | 0.028        | 1.00          | Jul |                 | 0.02      | 0.02          | 0.04           | 0.02           |
| Liberty 280                   | oz            |                    |              |               |     | 29.0000         |           |               |                |                |
| Dual Magnum                   | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Acephate 90SP                 | lb            |                    |              |               |     | 0.7500          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Aug | 1.0000          |           |               |                |                |
| Prevathon                     | oz            |                    |              |               |     | 14.0000         |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.1000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 6.4000          |           |               |                |                |
| Incidental Pest               |               |                    |              | 1.00          | Sep |                 |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              |               |     | 1.0000          |           |               |                |                |
| IncidentalPestTrt \$8         | acre          |                    |              |               |     | 1.0000          |           |               |                |                |
| Header -Soybean               | 25' Flex      | 265 hp             | 0.102        | 1.00          | Oct |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Soybeans                 | bu            |                    |              |               |     | 25.0000         |           |               |                |                |
| Grain Cart Soybean            | 700 bu        | MFWD 225           | 0.021        | 1.00          | Oct |                 | 0.02      | 0.02          | 0.02           | 0.01           |
| TOTALS                        |               |                    |              |               |     |                 | 0.21      | 0.21          | 0.30           | 0.18           |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.D Estimated costs for field operations, per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 15.32                 |      |      |       |       |       | 0.73   | 16.05         | 16.05         |
| Custom Apply Fert             | acre          | 7.50                  |      |      |       |       |       | 0.36   | 7.86          | 7.86          |
| Phosphorus(46% P2O5)          | cwt           | 16.31                 |      |      |       |       |       | 0.77   | 17.08         | 17.08         |
| Potash (60% K2O)              | cwt           | 25.24                 |      |      |       |       |       | 1.20   | 26.44         | 26.44         |
| Soybeans Consultant           | acre          | 6.50                  |      |      |       |       |       | 0.15   | 6.65          | 6.65          |
| Plant & Pre-Folding           | 12R-30        |                       | 1.41 | 2.23 | 2.31  |       |       | 0.12   | 6.07          | 6.22          |
| Soybean Seed LL               | lb            | 64.00                 |      |      |       |       |       | 1.27   | 65.27         | 65.27         |
| CruiserMaxx                   | oz            | 6.80                  |      |      |       |       |       | 0.13   | 6.93          | 6.93          |
| Optimize                      | oz            | 3.00                  |      |      |       |       |       | 0.06   | 3.06          | 3.06          |
| Boundary                      | pt            | 22.40                 |      |      |       |       |       | 0.44   | 22.84         | 22.84         |
| Gramoxone SL 2.0              | oz            | 7.20                  |      |      |       |       |       | 0.14   | 7.34          | 7.34          |
| Surfactant                    | pt            | 1.31                  |      |      |       |       |       | 0.03   | 1.34          | 1.34          |
| Spray (Broadcast)             | 60'           |                       | 0.59 | 0.43 | 0.84  |       |       | 0.03   | 1.89          | 1.45          |
| Liberty 280                   | oz            | 17.40                 |      |      |       |       |       | 0.28   | 17.68         | 17.68         |
| Dual Magnum                   | pt            | 13.80                 |      |      |       |       |       | 0.22   | 14.02         | 14.02         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Acephate 90SP                 | lb            | 5.57                  |      |      |       |       |       | 0.07   | 5.64          | 5.64          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prevathon                     | oz            | 18.48                 |      |      |       |       |       | 0.22   | 18.70         | 18.70         |
| Surfactant                    | pt            | 0.33                  |      |      |       |       |       |        | 0.33          | 0.33          |
| Bifenthrin                    | oz            | 4.99                  |      |      |       |       |       | 0.06   | 5.05          | 5.05          |
| Incidental Pest               |               |                       |      |      |       |       |       |        |               |               |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.05   | 6.55          | 6.55          |
| IncidentalPestTrt \$8         | acre          | 8.00                  |      |      |       |       |       | 0.06   | 8.06          | 8.06          |
| Header -Soybean               | 25' Flex      |                       | 2.51 | 4.37 | 2.57  |       |       | 0.04   | 9.49          | 15.10         |
| Haul Soybeans                 | bu            | 6.75                  |      |      |       |       |       | 0.03   | 6.78          | 6.78          |
| Grain Cart Soybean            | 700 bu        |                       | 0.44 | 0.35 | 0.54  |       |       | 0.01   | 1.34          | 1.25          |
| TOTALS                        |               | 273.73                | 4.95 | 7.38 | 6.26  | 0.00  | 6.79  | 299.11 | 24.02         | 323.13        |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 17.E Estimated monthly income and expense flows per acre  
Soybeans, double crop after wheat, 1L, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| ITEM                  | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -----dollars-----     |        |        |        |        |        |        |        |        |        |        |        |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 306.15 | 0.00   | 0.00   | 0.00   | 247.50 |
| DIRECT EXPENSES       |        |        |        |        |        |        |        |        |        |        |        |        |
| CUSTOM SPRAY          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 13.00  | 6.50   | 0.00   |
| FERTILIZERS           | 41.55  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| FUNGICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.80   | 0.00   | 0.00   | 0.00   | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.60  | 31.20  | 0.00   | 0.00   | 0.00   |
| INSECTICIDES          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 29.04  | 8.00   | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 64.00  | 0.00   | 0.00   | 0.00   | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.31   | 0.00   | 0.33   | 0.00   | 0.00   |
| CUSTOM FERTILIZE      | 7.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.75   |
| CUSTOM LIME           | 15.32  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.50   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| INOCULANT             | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 3.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.31   | 0.84   | 0.00   | 0.00   | 3.11   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| FUEL                  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.41   | 0.59   | 0.00   | 0.00   | 2.95   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.23   | 0.43   | 0.00   | 0.00   | 4.72   |
| INTEREST ON OP. CAP.  | 3.22   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.15   | 2.19   | 0.53   | 0.51   | 0.11   | 0.08   |
| TOTAL DIRECT EXPENSES | 70.92  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 6.65   | 112.85 | 33.59  | 42.88  | 14.61  | 17.61  |
| NET INCOME            | -70.92 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -6.65  | 193.30 | -33.59 | -42.88 | -14.61 | 229.89 |
| NET INCOME TO DATE    | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -70.92 | -77.57 | 115.73 | 82.14  | 39.26  | 24.65  | 254.54 |

Note: Cost of production estimates are based on 2017 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 17.F Estimated returns for various price/yield combinations, per acre  
Soybeans, double crop after wheat, LL, 12R 30"  
Non-irrigated, All Areas, Mississippi, 2018

| PRODUCT | PERCENT       |      |         |      |      |      |      |      |      |      |      |     |     |
|---------|---------------|------|---------|------|------|------|------|------|------|------|------|-----|-----|
|         | 75            | 80   | 85      | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  |     |     |
|         | PRODUCT PRICE |      |         |      |      |      |      |      |      |      |      |     |     |
| Wheat   | 3.53          | 3.76 | 4.00    | 4.23 | 4.47 | 4.71 | 4.94 | 5.18 | 5.41 | 5.65 | 5.88 |     |     |
| PERCENT | YIELD         | UNIT | dollars |      |      |      |      |      |      |      |      |     |     |
| 50      | 32.50         | bu   | 66      | 74   | 81   | 89   | 97   | 104  | 112  | 120  | 127  | 135 | 143 |
|         |               |      | 42      | 50   | 57   | 65   | 73   | 80   | 88   | 96   | 103  | 111 | 119 |
| 60      | 39.00         | bu   | 88      | 98   | 107  | 116  | 125  | 134  | 143  | 153  | 162  | 171 | 180 |
|         |               |      | 64      | 74   | 83   | 92   | 101  | 110  | 119  | 129  | 138  | 147 | 156 |
| 70      | 45.50         | bu   | 111     | 121  | 132  | 143  | 154  | 164  | 175  | 186  | 196  | 207 | 218 |
|         |               |      | 87      | 97   | 108  | 119  | 129  | 140  | 151  | 162  | 172  | 183 | 194 |
| 80      | 52.00         | bu   | 133     | 145  | 157  | 170  | 182  | 194  | 206  | 219  | 231  | 243 | 255 |
|         |               |      | 109     | 121  | 133  | 146  | 158  | 170  | 182  | 195  | 207  | 219 | 231 |
| 90      | 58.50         | bu   | 155     | 169  | 183  | 197  | 210  | 224  | 238  | 252  | 265  | 279 | 293 |
|         |               |      | 131     | 145  | 159  | 173  | 186  | 200  | 214  | 228  | 241  | 255 | 269 |
| 100     | 65.00         | bu   | 178     | 193  | 208  | 223  | 239  | 254  | 269  | 285  | 300  | 315 | 331 |
|         |               |      | 153     | 169  | 184  | 199  | 215  | 230  | 245  | 261  | 276  | 291 | 307 |
| 110     | 71.50         | bu   | 200     | 217  | 233  | 250  | 267  | 284  | 301  | 318  | 334  | 351 | 368 |
|         |               |      | 176     | 193  | 209  | 226  | 243  | 260  | 277  | 294  | 310  | 327 | 344 |
| 120     | 78.00         | bu   | 222     | 240  | 259  | 277  | 296  | 314  | 332  | 351  | 369  | 387 | 406 |
|         |               |      | 198     | 216  | 235  | 253  | 272  | 290  | 308  | 327  | 345  | 363 | 382 |
| 130     | 84.50         | bu   | 244     | 264  | 284  | 304  | 324  | 344  | 364  | 384  | 404  | 423 | 443 |
|         |               |      | 220     | 240  | 260  | 280  | 300  | 320  | 340  | 360  | 380  | 399 | 419 |
| 140     | 91.00         | bu   | 267     | 288  | 309  | 331  | 352  | 374  | 395  | 417  | 438  | 460 | 481 |
|         |               |      | 243     | 264  | 285  | 307  | 328  | 350  | 371  | 393  | 414  | 435 | 457 |
| 150     | 97.50         | bu   | 289     | 312  | 335  | 358  | 381  | 404  | 427  | 450  | 473  | 496 | 519 |
|         |               |      | 265     | 288  | 311  | 334  | 357  | 380  | 403  | 426  | 449  | 472 | 495 |

The top number in each cell is Returns Above Direct Expenses.  
The bottom number in each cell is Returns Above Total Specified Expenses.  
Only the product listed has been varied to calculate net returns.  
Note: Cost of production estimates are based on 2017 input prices.

Table 18.A Estimated costs per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| 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    | 1.2000   | 6.00    | _____     |
| FERTILIZERS              |       |         |          |         |           |
| Phosphorus(46% P2O5)     | cwt   | 18.75   | 1.6300   | 30.56   | _____     |
| Potash (60% K2O)         | cwt   | 18.98   | 1.2500   | 23.73   | _____     |
| UAN + Sulfur (28%)       | gal   | 1.31    | 48.5856  | 63.65   | _____     |
| HERBICIDES               |       |         |          |         |           |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 32.0000  | 4.48    | _____     |
| Clarity                  | pt    | 11.55   | 0.5000   | 5.78    | _____     |
| Select Max               | pt    | 12.64   | 1.0000   | 12.64   | _____     |
| Atrazine 4L              | pt    | 2.12    | 4.0000   | 8.48    | _____     |
| Halex GT                 | pt    | 7.80    | 3.6000   | 28.08   | _____     |
| INSECTICIDES             |       |         |          |         |           |
| Bifenthrin               | oz    | 0.78    | 1.2804   | 1.00    | _____     |
| Intrepid 2F              | oz    | 2.00    | 4.0000   | 8.00    | _____     |
| SEED/PLANTS              |       |         |          |         |           |
| Corn Seed RR2            | thous | 3.24    | 28.0000  | 90.72   | _____     |
| CUSTOM FERTILIZE         |       |         |          |         |           |
| Custom Apply Fert        | acre  | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                  |       |         |          |         |           |
| Haul Corn                | bu    | 0.23    | 170.0000 | 39.10   | _____     |
| CUSTOM LIME              |       |         |          |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |       |         |          |         |           |
| Corn Consultant          | acre  | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                |       |         |          |         |           |
| Soil Test                | acre  | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |       |         |          |         |           |
| Tractors                 | hour  | 13.51   | 0.4823   | 6.51    | _____     |
| Harvesters               | hour  | 13.51   | 0.1277   | 1.73    | _____     |
| Self-Propelled           | hour  | 13.51   | 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  | 13.48   | 0.5649   | 7.62    | _____     |
| DIESEL FUEL              |       |         |          |         |           |
| Tractors                 | gal   | 1.80    | 4.2208   | 7.60    | _____     |
| Harvesters               | gal   | 1.80    | 1.7419   | 3.14    | _____     |
| Self-Propelled           | gal   | 1.80    | 0.1586   | 0.29    | _____     |
| REPAIR & MAINTENANCE     |       |         |          |         |           |
| Implements               | acre  | 8.51    | 1.0000   | 8.51    | _____     |
| Tractors                 | acre  | 2.31    | 1.0000   | 2.31    | _____     |
| Harvesters               | acre  | 4.36    | 1.0000   | 4.36    | _____     |
| Self-Propelled           | acre  | 0.18    | 1.0000   | 0.18    | _____     |
| INTEREST ON OP. CAP.     | acre  | 11.50   | 1.0000   | 11.50   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |          | 431.57  | _____     |
| FIXED EXPENSES           |       |         |          |         |           |
| Implements               | acre  | 12.74   | 1.0000   | 12.74   | _____     |
| Tractors                 | acre  | 14.52   | 1.0000   | 14.52   | _____     |
| Harvesters               | acre  | 17.22   | 1.0000   | 17.22   | _____     |
| Self-Propelled           | acre  | 1.20    | 1.0000   | 1.20    | _____     |
| TOTAL FIXED EXPENSES     |       |         |          | 45.68   | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |          | 477.25  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 18.B Summary of estimated costs and returns per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Corn                                   | bu   | 3.76    | 170.0000 | 639.20  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 639.20  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 12.50   | 1.0000   | 12.50   | _____     |
| FERTILIZERS                            | acre | 117.94  | 1.0000   | 117.94  | _____     |
| HERBICIDES                             | acre | 59.46   | 1.0000   | 59.46   | _____     |
| INSECTICIDES                           | acre | 9.00    | 1.0000   | 9.00    | _____     |
| SEED/PLANTS                            | acre | 90.72   | 1.0000   | 90.72   | _____     |
| CUSTOM FERTILIZE                       | acre | 7.50    | 1.0000   | 7.50    | _____     |
| HAULING                                | acre | 39.10   | 1.0000   | 39.10   | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000   | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1530   | 1.39    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.6277   | 8.48    | _____     |
| UNALLOCATED LABOR                      | hour | 13.48   | 0.5649   | 7.62    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 6.1215   | 11.03   | _____     |
| REPAIR & MAINTENANCE                   | acre | 15.36   | 1.0000   | 15.36   | _____     |
| INTEREST ON OP. CAP.                   | acre | 11.50   | 1.0000   | 11.50   | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 431.57  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 207.63  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 45.68   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 477.25  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 161.95  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 18.C Estimated resource use for field operations, per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.6660          |           |               |                |                |
| Spin Spreader                 | 5 ton         | MFWD 170           | 0.042        | 1.00          | Oct |                 | 0.04      | 0.04          | 0.08           | 0.03           |
| Phosphorus (46% P2O5)         | cwt           |                    |              |               |     | 1.6300          |           |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.2500          |           |               |                |                |
| Disk Heavy                    | 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           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| 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%)            | gal           |                    |              |               |     | 14.8018         |           |               |                |                |
| 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%)            | gal           |                    |              |               |     | 33.7838         |           |               |                |                |
| Corn Consultant               | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| App by Air ( 3 gal)           | appl          |                    |              | 0.20          | May | 0.2000          |           |               |                |                |
| Bifenthrin                    | oz            |                    |              |               |     | 1.2804          |           |               |                |                |
| App by Air ( 3 gal)           | appl          |                    |              | 1.00          | Jun | 1.0000          |           |               |                |                |
| Intrepid 2F                   | oz            |                    |              |               |     | 4.0000          |           |               |                |                |
| Header - Corn                 | 8R-30         | 265 hp             | 0.127        | 1.00          | Sep |                 | 0.12      | 0.12          | 0.12           | 0.11           |
| Grain Cart Corn               | 500 bu        | MFWD 170           | 0.025        | 1.00          | Sep |                 | 0.02      | 0.02          | 0.02           | 0.02           |
| Haul Corn                     | bu            |                    |              |               |     | 170.0000        |           |               |                |                |
| Stalk Shredder Flex           | 20'           | MFWD 170           | 0.082        | 1.00          | Sep |                 | 0.08      | 0.08          | 0.08           | 0.07           |
| TOTALS                        |               |                    |              |               |     |                 | 0.62      | 0.61          | 0.78           | 0.56           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 18.D Estimated costs for field operations, per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |       |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|-------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |       |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |       |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.16   | 3.49          |               | 3.49  |
| Lime (Spread)                 | ton           | 30.64                 |       |       |       |       |       | 1.46   | 32.10         |               | 32.10 |
| Spin Spreader                 | 5 ton         |                       | 0.66  | 0.49  | 1.46  |       |       | 0.12   | 2.73          | 1.86          | 4.59  |
| Phosphorus(46% P2O5)          | cwt           | 30.56                 |       |       |       |       |       | 1.45   | 32.01         |               | 32.01 |
| Potash (60% K2O)              | cwt           | 23.73                 |       |       |       |       |       | 1.13   | 24.86         |               | 24.86 |
| Disk Heavy                    | 20'           |                       | 1.53  | 1.53  | 2.49  |       |       | 0.26   | 5.81          | 5.17          | 10.98 |
| Bed/Disk w/roller             | 8R-30/40      |                       | 1.48  | 1.07  | 2.41  |       |       | 0.24   | 5.20          | 4.47          | 9.67  |
| App by Air ( 5 gal)           | appl          | 6.50                  |       |       |       |       |       | 0.21   | 6.71          |               | 6.71  |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |       |       |       |       |       | 0.14   | 4.62          |               | 4.62  |
| Clarity                       | pt            | 5.78                  |       |       |       |       |       | 0.18   | 5.96          |               | 5.96  |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.40   | 13.04         |               | 13.04 |
| Plant - Rigid                 | 12R-30        |                       | 0.99  | 1.67  | 2.18  |       |       | 0.13   | 4.97          | 4.52          | 9.49  |
| Corn Seed RR2                 | thous         | 90.72                 |       |       |       |       |       | 2.51   | 93.23         |               | 93.23 |
| Custom Apply Fert             | acre          | 7.50                  |       |       |       |       |       | 0.18   | 7.68          |               | 7.68  |
| UAN + Sulfur (28%)            | gal           | 19.39                 |       |       |       |       |       | 0.46   | 19.85         |               | 19.85 |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.53  |       |       | 0.02   | 1.02          | 1.20          | 2.22  |
| Atrazine 4L                   | pt            | 8.48                  |       |       |       |       |       | 0.20   | 8.68          |               | 8.68  |
| Halex GT                      | pt            | 28.08                 |       |       |       |       |       | 0.67   | 28.75         |               | 28.75 |
| Fert Appl (Liquid)            | 12R-30        |                       | 1.24  | 1.43  | 2.38  |       |       | 0.10   | 5.15          | 3.55          | 8.70  |
| UAN + Sulfur (28%)            | gal           | 44.26                 |       |       |       |       |       | 0.88   | 45.14         |               | 45.14 |
| Corn Consultant               | acre          | 6.00                  |       |       |       |       |       | 0.12   | 6.12          |               | 6.12  |
| App by Air ( 3 gal)           | appl          | 1.00                  |       |       |       |       |       | 0.02   | 1.02          |               | 1.02  |
| Bifenthrin                    | oz            | 1.00                  |       |       |       |       |       | 0.02   | 1.02          |               | 1.02  |
| App by Air ( 3 gal)           | appl          | 5.00                  |       |       |       |       |       | 0.08   | 5.08          |               | 5.08  |
| Intrepid 2F                   | oz            | 8.00                  |       |       |       |       |       | 0.13   | 8.13          |               | 8.13  |
| Header - Corn                 | 8R-30         |                       | 3.14  | 6.32  | 3.28  |       |       | 0.05   | 12.79         | 20.17         | 32.96 |
| Grain Cart Corn               | 500 bu        |                       | 0.40  | 0.28  | 0.65  |       |       | 0.01   | 1.34          | 1.05          | 2.39  |
| Haul Corn                     | bu            | 39.10                 |       |       |       |       |       | 0.15   | 39.25         |               | 39.25 |
| Stalk Shredder Flex           | 20'           |                       | 1.30  | 2.39  | 2.11  |       |       | 0.02   | 5.82          | 3.69          | 9.51  |
| TOTALS                        |               | 376.19                | 11.03 | 15.36 | 17.49 | 0.00  | 11.50 | 431.57 | 45.68         | 477.25        |       |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 18.E Estimated monthly income and expense flows per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| ITEM                  | Oct     | Nov     | Dec     | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |         |         |         |         |         |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 639.20 |
| DIRECT EXPENSES       |         |         |         |         |         |         |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00    | 0.00    | 0.00    | 0.00    | 6.50    | 0.00    | 0.00    | 1.00    | 5.00    | 0.00    | 0.00    | 0.00   |
| FERTILIZERS           | 54.29   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 19.39   | 44.26   | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00    | 0.00    | 0.00    | 0.00    | 22.90   | 0.00    | 36.56   | 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    | 1.00    | 8.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 90.72   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CUSTOM FERTILIZE      | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 7.50    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 39.10  |
| CUSTOM LIME           | 30.64   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 6.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 6.36    | 0.00    | 0.00    | 0.00    | 0.00    | 2.18    | 0.53    | 2.38    | 0.00    | 0.00    | 0.00    | 6.04   |
| 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                  | 3.67    | 0.00    | 0.00    | 0.00    | 0.00    | 0.99    | 0.29    | 1.24    | 0.00    | 0.00    | 0.00    | 4.84   |
| REPAIR & MAINTENANCE  | 3.09    | 0.00    | 0.00    | 0.00    | 0.00    | 1.67    | 0.18    | 1.43    | 0.00    | 0.00    | 0.00    | 8.99   |
| INTEREST ON OP. CAP.  | 4.82    | 0.00    | 0.00    | 0.00    | 0.93    | 2.64    | 1.53    | 1.14    | 0.21    | 0.00    | 0.00    | 0.23   |
| TOTAL DIRECT EXPENSES | 106.20  | 0.00    | 0.00    | 0.00    | 30.33   | 98.20   | 65.98   | 58.45   | 13.21   | 0.00    | 0.00    | 59.20  |
| NET INCOME            | -106.20 | 0.00    | 0.00    | 0.00    | -30.33  | -98.20  | -65.98  | -58.45  | -13.21  | 0.00    | 0.00    | 580.00 |
| NET INCOME TO DATE    | -106.20 | -106.20 | -106.20 | -106.20 | -136.53 | -234.73 | -300.71 | -359.16 | -372.37 | -372.37 | -372.37 | 207.63 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre  
 Corn, stale seedbed, RR seed, 12-row 30",  
 170 bu yield goal, Non-Delta, Mississippi, 2018

| PRODUCT       | PERCENT |      |              |              |              |              |              |             |             |             |            |            |            |
|---------------|---------|------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|------------|------------|------------|
|               | 75      | 80   | 85           | 90           | 95           | 100          | 105          | 110         | 115         | 120         | 125        |            |            |
| PRODUCT PRICE |         |      |              |              |              |              |              |             |             |             |            |            |            |
| Corn          | 2.82    | 3.00 | 3.19         | 3.38         | 3.57         | 3.76         | 3.94         | 4.13        | 4.32        | 4.51        | 4.70       |            |            |
| PERCENT       | YIELD   | UNIT | dollars      |              |              |              |              |             |             |             |            |            |            |
| 50            | 85.00   | bu   | -172<br>-217 | -156<br>-201 | -140<br>-185 | -124<br>-169 | -108<br>-154 | -92<br>-138 | -76<br>-122 | -60<br>-106 | -44<br>-90 | -28<br>-74 | -12<br>-58 |
| 60            | 102.00  | bu   | -128<br>-173 | -109<br>-154 | -89<br>-135  | -70<br>-116  | -51<br>-97   | -32<br>-78  | -13<br>-58  | 6<br>-39    | 25<br>-20  | 44<br>-1   | 63<br>17   |
| 70            | 119.00  | bu   | -84<br>-129  | -61<br>-107  | -39<br>-85   | -17<br>-62   | 5<br>-40     | 27<br>-18   | 50<br>4     | 72<br>26    | 94<br>49   | 117<br>71  | 139<br>93  |
| 80            | 136.00  | bu   | -40<br>-85   | -14<br>-60   | 10<br>-34    | 36<br>-9     | 62<br>16     | 87<br>41    | 113<br>67   | 138<br>93   | 164<br>118 | 189<br>144 | 215<br>169 |
| 90            | 153.00  | bu   | 3<br>-41     | 32<br>-13    | 61<br>15     | 90<br>44     | 118<br>73    | 147<br>101  | 176<br>130  | 205<br>159  | 233<br>188 | 262<br>217 | 291<br>245 |
| 100           | 170.00  | bu   | 47<br>2      | 79<br>34     | 111<br>66    | 143<br>98    | 175<br>129   | 207<br>161  | 239<br>193  | 271<br>225  | 303<br>257 | 335<br>289 | 367<br>321 |
| 110           | 187.00  | bu   | 91<br>46     | 127<br>81    | 162<br>116   | 197<br>151   | 232<br>186   | 267<br>221  | 302<br>257  | 337<br>292  | 373<br>327 | 408<br>362 | 443<br>397 |
| 120           | 204.00  | bu   | 135<br>90    | 174<br>128   | 212<br>166   | 250<br>205   | 289<br>243   | 327<br>281  | 365<br>320  | 404<br>358  | 442<br>396 | 481<br>435 | 519<br>473 |
| 130           | 221.00  | bu   | 179<br>134   | 221<br>175   | 262<br>217   | 304<br>258   | 346<br>300   | 387<br>341  | 429<br>383  | 470<br>425  | 512<br>466 | 553<br>508 | 595<br>549 |
| 140           | 238.00  | bu   | 223<br>178   | 268<br>222   | 313<br>267   | 358<br>312   | 402<br>357   | 447<br>401  | 492<br>446  | 537<br>491  | 581<br>536 | 626<br>580 | 671<br>625 |
| 150           | 255.00  | bu   | 267<br>222   | 315<br>270   | 363<br>318   | 411<br>366   | 459<br>413   | 507<br>461  | 555<br>509  | 603<br>557  | 651<br>605 | 699<br>653 | 747<br>701 |

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 2017 input prices.

Table 19.A Estimated costs per acre  
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| 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              |       |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt   | 18.75   | 1.6300   | 30.56   | _____     |
| Potash (60% K2O)         | cwt   | 18.98   | 1.2500   | 23.73   | _____     |
| Fert 10-34-0             | gal   | 2.59    | 4.2919   | 11.12   | _____     |
| UAN (32%)                | gal   | 1.17    | 45.2080  | 52.89   | _____     |
| HERBICIDES               |       |         |          |         |           |
| Glyphosate 3lbs a.e      | oz    | 0.14    | 32.0000  | 4.48    | _____     |
| Clarity                  | pt    | 11.55   | 0.5000   | 5.78    | _____     |
| Select Max               | pt    | 12.64   | 1.0000   | 12.64   | _____     |
| Atrazine 4L              | pt    | 2.12    | 4.0000   | 8.48    | _____     |
| Halex GT                 | pt    | 7.80    | 3.6000   | 28.08   | _____     |
| SEED/PLANTS              |       |         |          |         |           |
| Corn Seed BtRR           | thous | 3.63    | 28.0000  | 101.64  | _____     |
| HAULING                  |       |         |          |         |           |
| Haul Corn                | bu    | 0.23    | 170.0000 | 39.10   | _____     |
| CUSTOM LIME              |       |         |          |         |           |
| Lime (Spread)            | ton   | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |       |         |          |         |           |
| Corn Consultant          | acre  | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                |       |         |          |         |           |
| Soil Test                | acre  | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |       |         |          |         |           |
| Tractors                 | hour  | 13.51   | 0.4165   | 5.63    | _____     |
| Harvesters               | hour  | 13.51   | 0.1277   | 1.73    | _____     |
| HAND LABOR               |       |         |          |         |           |
| Implements               | hour  | 9.06    | 0.2283   | 2.06    | _____     |
| UNALLOCATED LABOR        | hour  | 13.49   | 0.4898   | 6.61    | _____     |
| DIESEL FUEL              |       |         |          |         |           |
| Tractors                 | gal   | 1.80    | 3.6449   | 6.57    | _____     |
| Harvesters               | gal   | 1.80    | 1.7419   | 3.14    | _____     |
| REPAIR & MAINTENANCE     |       |         |          |         |           |
| Implements               | acre  | 7.50    | 1.0000   | 7.50    | _____     |
| Tractors                 | acre  | 1.99    | 1.0000   | 1.99    | _____     |
| Harvesters               | acre  | 4.36    | 1.0000   | 4.36    | _____     |
| INTEREST ON OP. CAP.     | acre  | 10.17   | 1.0000   | 10.17   | _____     |
| TOTAL DIRECT EXPENSES    |       |         |          | 414.73  | _____     |
| FIXED EXPENSES           |       |         |          |         |           |
| Implements               | acre  | 9.99    | 1.0000   | 9.99    | _____     |
| Tractors                 | acre  | 12.54   | 1.0000   | 12.54   | _____     |
| Harvesters               | acre  | 17.22   | 1.0000   | 17.22   | _____     |
| TOTAL FIXED EXPENSES     |       |         |          | 39.75   | _____     |
| TOTAL SPECIFIED EXPENSES |       |         |          | 454.48  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 19.B Summary of estimated costs and returns per acre  
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Corn                                   | bu   | 3.76    | 170.0000 | 639.20  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 639.20  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 6.50    | 1.0000   | 6.50    | _____     |
| FERTILIZERS                            | acre | 118.30  | 1.0000   | 118.30  | _____     |
| HERBICIDES                             | acre | 59.46   | 1.0000   | 59.46   | _____     |
| SEED/PLANTS                            | acre | 101.64  | 1.0000   | 101.64  | _____     |
| HAULING                                | acre | 39.10   | 1.0000   | 39.10   | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000   | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.2283   | 2.06    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.5442   | 7.36    | _____     |
| UNALLOCATED LABOR                      | hour | 13.49   | 0.4898   | 6.61    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 5.3869   | 9.71    | _____     |
| REPAIR & MAINTENANCE                   | acre | 13.85   | 1.0000   | 13.85   | _____     |
| INTEREST ON OP. CAP.                   | acre | 10.17   | 1.0000   | 10.17   | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 414.73  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 224.47  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 39.75   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 454.48  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 184.72  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

Table 19.C Estimated resource use for field operations, per acre  
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT   | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-------------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |             |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |             |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.6660          |             |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Feb | 1.0000          |             |               |                |                |
| Glyphosate 3lbs a.e           | oz            |                    |              |               |     | 32.0000         |             |               |                |                |
| Clarity                       | pt            |                    |              |               |     | 0.5000          |             |               |                |                |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |             |               |                |                |
| Spin Spreader                 | 5 ton         | MFWD 170           | 0.042        | 1.00          | Mar |                 | 0.04        | 0.04          | 0.08           | 0.03           |
| Phosphorus(46% P2O5)          | cwt           |                    |              |               |     | 1.6300          |             |               |                |                |
| Potash (60% K2O)              | cwt           |                    |              |               |     | 1.2500          |             |               |                |                |
| NT Plant&Pre-Rigid            | 8R-30         | MFWD 170           | 0.105        | 1.00          | Mar |                 | 0.10        | 0.10          | 0.21           | 0.09           |
| Corn Seed BtRR                | thous         |                    |              |               |     | 28.0000         |             |               |                |                |
| Fert 10-34-0                  | gal           |                    |              |               |     | 4.2919          |             |               |                |                |
| 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%)                     | gal           |                    |              |               |     | 45.2080         |             |               |                |                |
| 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           | 0.025        | 1.00          | Sep |                 | 0.02        | 0.02          | 0.02           | 0.02           |
| Haul Corn                     | bu            |                    |              |               |     | 170.0000        |             |               |                |                |
| Stalk Shredder Flex           | 20'           | MFWD 170           | 0.082        | 1.00          | Sep |                 | 0.08        | 0.08          | 0.08           | 0.07           |
| <b>TOTALS</b>                 |               |                    |              |               |     |                 | <b>0.54</b> | <b>0.54</b>   | <b>0.77</b>    | <b>0.48</b>    |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 19.D Estimated costs for field operations, per acre  
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |       |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 30.64                 |      |       |       |       |       | 1.46   | 32.10         | 32.10         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |       |       |       |       | 0.21   | 6.71          | 6.71          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |       |       |       |       | 0.14   | 4.62          | 4.62          |
| Clarity                       | pt            | 5.78                  |      |       |       |       |       | 0.18   | 5.96          | 5.96          |
| Select Max                    | pt            | 12.64                 |      |       |       |       |       | 0.40   | 13.04         | 13.04         |
| Spin Spreader                 | 5 ton         |                       | 0.66 | 0.49  | 1.46  |       |       | 0.07   | 2.68          | 1.86          |
| Phosphorus(46% P2O5)          | cwt           | 30.56                 |      |       |       |       |       | 0.85   | 31.41         | 31.41         |
| Potash (60% K2O)              | cwt           | 23.73                 |      |       |       |       |       | 0.66   | 24.39         | 24.39         |
| NT Plant&Pre-Rigid            | 8R-30         |                       | 1.67 | 2.37  | 3.68  |       |       | 0.21   | 7.93          | 6.74          |
| Corn Seed BtRR                | thous         | 101.64                |      |       |       |       |       | 2.82   | 104.46        | 104.46        |
| Fert 10-34-0                  | gal           | 11.12                 |      |       |       |       |       | 0.31   | 11.43         | 11.43         |
| Spray (Broadcast)             | 27'           |                       | 0.99 | 0.46  | 1.89  |       |       | 0.08   | 3.42          | 2.08          |
| Atrazine 4L                   | pt            | 8.48                  |      |       |       |       |       | 0.20   | 8.68          | 8.68          |
| Halex GT                      | pt            | 28.08                 |      |       |       |       |       | 0.67   | 28.75         | 28.75         |
| Fert Appl (Liquid)            | 8R-30         |                       | 1.55 | 1.54  | 2.96  |       |       | 0.14   | 6.19          | 4.16          |
| UAN (32%)                     | gal           | 52.89                 |      |       |       |       |       | 1.26   | 54.15         | 54.15         |
| Corn Consultant               | acre          | 6.00                  |      |       |       |       |       | 0.12   | 6.12          | 6.12          |
| Header - Corn                 | 8R-30         |                       | 3.14 | 6.32  | 3.28  |       |       | 0.05   | 12.79         | 20.17         |
| Grain Cart Corn               | 500 bu        |                       | 0.40 | 0.28  | 0.65  |       |       | 0.01   | 1.34          | 1.05          |
| Haul Corn                     | bu            | 39.10                 |      |       |       |       |       | 0.15   | 39.25         | 39.25         |
| Stalk Shredder Flex           | 20'           |                       | 1.30 | 2.39  | 2.11  |       |       | 0.02   | 5.82          | 3.69          |
| TOTALS                        |               | 364.97                | 9.71 | 13.85 | 16.03 | 0.00  | 10.17 | 414.73 | 39.75         | 454.48        |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 19.E Estimated monthly income and expense flows per acre  
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| ITEM                  | Oct    | Nov    | Dec    | Jan    | Feb    | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 639.20 |
| 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   | 65.41   | 52.89   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 22.90  | 0.00    | 36.56   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 101.64  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| HAULING               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 39.10  |
| CUSTOM LIME           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 6.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 5.14    | 4.85    | 0.00    | 0.00    | 0.00    | 0.00    | 6.04   |
| 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   | 2.33    | 2.54    | 0.00    | 0.00    | 0.00    | 0.00    | 4.84   |
| REPAIR & MAINTENANCE  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.86    | 2.00    | 0.00    | 0.00    | 0.00    | 0.00    | 8.99   |
| INTEREST ON OP. CAP.  | 1.62   | 0.00   | 0.00   | 0.00   | 0.93   | 4.92    | 2.35    | 0.12    | 0.00    | 0.00    | 0.00    | 0.23   |
| TOTAL DIRECT EXPENSES | 35.59  | 0.00   | 0.00   | 0.00   | 30.33  | 182.30  | 101.19  | 6.12    | 0.00    | 0.00    | 0.00    | 59.20  |
| NET INCOME            | -35.59 | 0.00   | 0.00   | 0.00   | -30.33 | -182.30 | -101.19 | -6.12   | 0.00    | 0.00    | 0.00    | 580.00 |
| NET INCOME TO DATE    | -35.59 | -35.59 | -35.59 | -35.59 | -65.92 | -248.22 | -349.41 | -355.53 | -355.53 | -355.53 | -355.53 | 224.47 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre  
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal  
 Non-Delta Areas, Mississippi, 2018

| PRODUCT       | PERCENT |      |              |              |              |              |             |             |            |            |            |            |            |
|---------------|---------|------|--------------|--------------|--------------|--------------|-------------|-------------|------------|------------|------------|------------|------------|
|               | 75      | 80   | 85           | 90           | 95           | 100          | 105         | 110         | 115        | 120        | 125        |            |            |
| PRODUCT PRICE |         |      |              |              |              |              |             |             |            |            |            |            |            |
| Corn          | 2.82    | 3.00 | 3.19         | 3.38         | 3.57         | 3.76         | 3.94        | 4.13        | 4.32       | 4.51       | 4.70       |            |            |
| PERCENT       | YIELD   | UNIT | dollars      |              |              |              |             |             |            |            |            |            |            |
| 50            | 85.00   | bu   | -155<br>-195 | -139<br>-179 | -123<br>-163 | -107<br>-147 | -91<br>-131 | -75<br>-115 | -59<br>-99 | -43<br>-83 | -27<br>-67 | -11<br>-51 | 4<br>-35   |
| 60            | 102.00  | bu   | -111<br>-151 | -92<br>-131  | -73<br>-112  | -53<br>-93   | -34<br>-74  | -15<br>-55  | 3<br>-36   | 22<br>-16  | 42<br>2    | 61<br>21   | 80<br>40   |
| 70            | 119.00  | bu   | -67<br>-107  | -45<br>-84   | -22<br>-62   | -0<br>-40    | 22<br>-17   | 44<br>4     | 66<br>27   | 89<br>49   | 111<br>71  | 133<br>94  | 156<br>116 |
| 80            | 136.00  | bu   | -23<br>-63   | 2<br>-37     | 27<br>-11    | 53<br>13     | 78<br>39    | 104<br>64   | 130<br>90  | 155<br>115 | 181<br>141 | 206<br>167 | 232<br>192 |
| 90            | 153.00  | bu   | 20<br>-19    | 49<br>9      | 78<br>38     | 106<br>67    | 135<br>95   | 164<br>124  | 193<br>153 | 222<br>182 | 250<br>211 | 279<br>239 | 308<br>268 |
| 100           | 170.00  | bu   | 64<br>24     | 96<br>56     | 128<br>88    | 160<br>120   | 192<br>152  | 224<br>184  | 256<br>216 | 288<br>248 | 320<br>280 | 352<br>312 | 384<br>344 |
| 110           | 187.00  | bu   | 108<br>68    | 143<br>104   | 178<br>139   | 214<br>174   | 249<br>209  | 284<br>244  | 319<br>279 | 354<br>315 | 389<br>350 | 425<br>385 | 460<br>420 |
| 120           | 204.00  | bu   | 152<br>112   | 191<br>151   | 229<br>189   | 267<br>228   | 306<br>266  | 344<br>304  | 382<br>343 | 421<br>381 | 459<br>419 | 497<br>458 | 536<br>496 |
| 130           | 221.00  | bu   | 196<br>156   | 238<br>198   | 279<br>240   | 321<br>281   | 362<br>323  | 404<br>364  | 446<br>406 | 487<br>447 | 529<br>489 | 570<br>530 | 612<br>572 |
| 140           | 238.00  | bu   | 240<br>200   | 285<br>245   | 330<br>290   | 374<br>335   | 419<br>379  | 464<br>424  | 509<br>469 | 553<br>514 | 598<br>558 | 643<br>603 | 688<br>648 |
| 150           | 255.00  | bu   | 284<br>244   | 332<br>292   | 380<br>340   | 428<br>388   | 476<br>436  | 524<br>484  | 572<br>532 | 620<br>580 | 668<br>628 | 716<br>676 | 764<br>724 |

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 2017 input prices.

Table 20.A Estimated costs per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

| 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              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 1.3000   | 24.38   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 1.0000   | 18.98   | _____     |
| UAN + Sulfur (28%)       | gal  | 1.31    | 38.2883  | 50.16   | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | oz   | 0.14    | 32.0000  | 4.48    | _____     |
| 2,4-D Amine 4            | pt   | 2.40    | 2.0000   | 4.80    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| Lexar                    | pt   | 7.96    | 6.0000   | 47.76   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Sivanto Prime            | oz   | 2.55    | 8.0000   | 20.40   | _____     |
| Karate Z                 | oz   | 2.74    | 1.5000   | 4.11    | _____     |
| Prevathon                | oz   | 1.32    | 14.0000  | 18.48   | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Sorghum Concept+ Po      | lb   | 3.92    | 4.5000   | 17.64   | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Surfactant               | pt   | 3.28    | 0.3000   | 0.98    | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Sorghum             | bu   | 0.25    | 100.0000 | 25.00   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Sorghum Consultant       | acre | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.3120   | 4.22    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| Self-Propelled           | hour | 13.51   | 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 | 13.51   | 0.4322   | 5.84    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 2.7303   | 4.91    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| Self-Propelled           | gal  | 1.80    | 0.8505   | 1.55    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 4.74    | 1.0000   | 4.74    | _____     |
| Tractors                 | acre | 1.49    | 1.0000   | 1.49    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| Self-Propelled           | acre | 0.90    | 1.0000   | 0.90    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.54    | 1.0000   | 7.54    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 337.36  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 9.31    | 1.0000   | 9.31    | _____     |
| Tractors                 | acre | 9.39    | 1.0000   | 9.39    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| Self-Propelled           | acre | 5.90    | 1.0000   | 5.90    | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 38.37   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 375.73  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 20.B Summary of estimated costs and returns per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Grain Sorghum                          | bu   | 3.57    | 100.0000 | 357.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 357.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 6.50    | 1.0000   | 6.50    | _____     |
| FERTILIZERS                            | acre | 93.52   | 1.0000   | 93.52   | _____     |
| HERBICIDES                             | acre | 69.68   | 1.0000   | 69.68   | _____     |
| INSECTICIDES                           | acre | 42.99   | 1.0000   | 42.99   | _____     |
| SEED/PLANTS                            | acre | 17.64   | 1.0000   | 17.64   | _____     |
| ADJUVANTS                              | acre | 0.98    | 1.0000   | 0.98    | _____     |
| HAULING                                | acre | 25.00   | 1.0000   | 25.00   | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000   | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 6.00    | 1.0000   | 6.00    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1772   | 1.61    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.4803   | 6.50    | _____     |
| UNALLOCATED LABOR                      | hour | 13.51   | 0.4322   | 5.84    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 4.9745   | 8.97    | _____     |
| REPAIR & MAINTENANCE                   | acre | 10.62   | 1.0000   | 10.62   | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.54    | 1.0000   | 7.54    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 337.36  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 19.64   | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 38.37   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 375.73  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | -18.73  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 20.C Estimated resource use for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Oct | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Oct | 0.6660          |           |               |                |                |
| 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           | oz            |                    |              |               |     | 32.0000         |           |               |                |                |
| 2,4-D Amine 4                 | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Surfactant                    | pt            |                    |              |               |     | 0.3000          |           |               |                |                |
| Spin Spreader                 | 5 ton         | MFWD 170           | 0.042        | 1.00          | Apr |                 | 0.04      | 0.04          | 0.08           | 0.03           |
| Phosphorus(46% P2O5)          | 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            |                    |              |               |     | 4.5000          |           |               |                |                |
| Sprayer 800gal                | 80' 250hp     |                    | 0.013        | 1.00          | Apr |                 |           | 0.01          | 0.01           | 0.01           |
| Lexar                         | pt            |                    |              |               |     | 6.0000          |           |               |                |                |
| Sorghum Consultant            | acre          |                    |              | 1.00          | May | 1.0000          |           |               |                |                |
| Fert Appl (Liquid)            | 12R-30        | MFWD 170           | 0.078        | 1.00          | May |                 | 0.07      | 0.07          | 0.11           | 0.07           |
| UAN + Sulfur (28%)            | gal           |                    |              |               |     | 38.2883         |           |               |                |                |
| Sprayer 800gal                | 80' 250hp     |                    | 0.013        | 1.00          | Jun |                 |           | 0.01          | 0.01           | 0.01           |
| Sivanto Prime                 | oz            |                    |              |               |     | 4.0000          |           |               |                |                |
| Sprayer 800gal                | 80' 250hp     |                    | 0.013        | 1.00          | Jul |                 |           | 0.01          | 0.01           | 0.01           |
| 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           |
| Sivanto Prime                 | oz            |                    |              |               |     | 4.0000          |           |               |                |                |
| Header Wheat/Sorghum          | 25' Rigid     | 265 hp             | 0.102        | 1.00          | Sep |                 | 0.10      | 0.10          | 0.10           | 0.09           |
| Haul Sorghum                  | bu            |                    |              |               |     | 100.0000        |           |               |                |                |
| TOTALS                        |               |                    |              |               |     |                 | 0.48      | 0.41          | 0.65           | 0.43           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 20.D Estimated costs for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |       |       |       |       | 0.16   | 3.49          | 3.49          |
| Lime (Spread)                 | ton           | 30.64                 |      |       |       |       |       | 1.46   | 32.10         | 32.10         |
| Disk Harrow                   | 24'           |                       | 1.29 | 1.33  | 2.11  |       |       | 0.21   | 4.94          | 4.45 9.39     |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |       |       |       |       | 0.21   | 6.71          | 6.71          |
| Glyphosate 3lbs a.e           | oz            | 4.48                  |      |       |       |       |       | 0.14   | 4.62          | 4.62          |
| 2,4-D Amine 4                 | pt            | 4.80                  |      |       |       |       |       | 0.15   | 4.95          | 4.95          |
| Select Max                    | pt            | 12.64                 |      |       |       |       |       | 0.40   | 13.04         | 13.04         |
| Surfactant                    | pt            | 0.98                  |      |       |       |       |       | 0.03   | 1.01          | 1.01          |
| Spin Spreader                 | 5 ton         |                       | 0.66 | 0.49  | 1.46  |       |       | 0.06   | 2.67          | 1.86 4.53     |
| Phosphorus(46% P2O5)          | cwt           | 24.38                 |      |       |       |       |       | 0.58   | 24.96         | 24.96         |
| Potash (60% K2O)              | cwt           | 18.98                 |      |       |       |       |       | 0.45   | 19.43         | 19.43         |
| Field Cultivate Fld           | 32'           |                       | 0.73 | 0.67  | 1.20  |       |       | 0.06   | 2.66          | 3.30 5.96     |
| Plant - Folding               | 12R-30        |                       | 0.99 | 1.79  | 2.18  |       |       | 0.12   | 5.08          | 4.75 9.83     |
| Sorghum Concept+ Po           | lb            | 17.64                 |      |       |       |       |       | 0.42   | 18.06         | 18.06         |
| Sprayer 800gal                | 80' 250hp     |                       | 0.31 | 0.18  | 0.40  |       |       | 0.02   | 0.91          | 1.18 2.09     |
| Lexar                         | pt            | 47.76                 |      |       |       |       |       | 1.13   | 48.89         | 48.89         |
| Sorghum Consultant            | acre          | 6.00                  |      |       |       |       |       | 0.12   | 6.12          | 6.12          |
| Fert Appl (Liquid)            | 12R-30        |                       | 1.24 | 1.43  | 2.38  |       |       | 0.10   | 5.15          | 3.55 8.70     |
| UAN + Sulfur (28%)            | gal           | 50.16                 |      |       |       |       |       | 0.99   | 51.15         | 51.15         |
| Sprayer 800gal                | 80' 250hp     |                       | 0.31 | 0.18  | 0.40  |       |       | 0.01   | 0.90          | 1.18 2.08     |
| Sivanto Prime                 | oz            | 10.20                 |      |       |       |       |       | 0.16   | 10.36         | 10.36         |
| Sprayer 800gal                | 80' 250hp     |                       | 0.31 | 0.18  | 0.40  |       |       | 0.01   | 0.90          | 1.18 2.08     |
| Karate Z                      | oz            | 4.11                  |      |       |       |       |       | 0.05   | 4.16          | 4.16          |
| Sprayer 800gal                | 80' 250hp     |                       | 0.31 | 0.18  | 0.40  |       |       | 0.01   | 0.90          | 1.18 2.08     |
| Prevathon                     | oz            | 18.48                 |      |       |       |       |       | 0.22   | 18.70         | 18.70         |
| Sprayer 800gal                | 80' 250hp     |                       | 0.31 | 0.18  | 0.40  |       |       | 0.01   | 0.90          | 1.18 2.08     |
| Sivanto Prime                 | oz            | 10.20                 |      |       |       |       |       | 0.12   | 10.32         | 10.32         |
| Header Wheat/Sorghum          | 25' Rigid     |                       | 2.51 | 4.01  | 2.62  |       |       | 0.04   | 9.18          | 14.56 23.74   |
| Haul Sorghum                  | bu            | 25.00                 |      |       |       |       |       | 0.10   | 25.10         | 25.10         |
| TOTALS                        |               | 296.28                | 8.97 | 10.62 | 13.95 | 0.00  | 7.54  | 337.36 | 38.37         | 375.73        |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 20.E Estimated monthly income and expense flows per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

| ITEM                  | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |        |        |        |        |        |        |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 357.00 |
| 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   | 43.36   | 50.16   | 0.00    | 0.00    | 0.00    | 0.00   |
| HERBICIDES            | 0.00   | 0.00   | 0.00   | 0.00   | 21.92  | 0.00   | 47.76   | 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    | 10.20   | 32.79   | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 17.64   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00   | 0.00   | 0.00   | 0.00   | 0.98   | 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           | 30.64  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 6.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 3.33   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00   | 2.11   | 0.00   | 0.00   | 0.00   | 0.00   | 5.24    | 2.38    | 0.40    | 1.20    | 0.00    | 2.62   |
| LEASE *               | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00   | 1.29   | 0.00   | 0.00   | 0.00   | 0.00   | 2.69    | 1.24    | 0.31    | 0.93    | 0.00    | 2.51   |
| REPAIR & MAINTENANCE  | 0.00   | 1.33   | 0.00   | 0.00   | 0.00   | 0.00   | 3.13    | 1.43    | 0.18    | 0.54    | 0.00    | 4.01   |
| INTEREST ON OP. CAP.  | 1.62   | 0.21   | 0.00   | 0.00   | 0.93   | 0.00   | 2.84    | 1.21    | 0.17    | 0.42    | 0.00    | 0.14   |
| TOTAL DIRECT EXPENSES | 35.59  | 4.94   | 0.00   | 0.00   | 30.33  | 0.00   | 122.66  | 62.42   | 11.26   | 35.88   | 0.00    | 34.28  |
| NET INCOME            | -35.59 | -4.94  | 0.00   | 0.00   | -30.33 | 0.00   | -122.66 | -62.42  | -11.26  | -35.88  | 0.00    | 322.72 |
| NET INCOME TO DATE    | -35.59 | -40.53 | -40.53 | -40.53 | -70.86 | -70.86 | -193.52 | -255.94 | -267.20 | -303.08 | -303.08 | 19.64  |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2018

|               |        |      | PERCENT                 |              |              |              |              |              |              |              |              |              |              |
|---------------|--------|------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT       |        |      | 75                      | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120          | 125          |
| -----         |        |      | -----PRODUCT PRICE----- |              |              |              |              |              |              |              |              |              |              |
| Grain Sorghum |        |      | 2.67                    | 2.85         | 3.03         | 3.21         | 3.39         | 3.57         | 3.74         | 3.92         | 4.10         | 4.28         | 4.46         |
| PERCENT       | YIELD  | UNIT | -----dollars-----       |              |              |              |              |              |              |              |              |              |              |
| 50            | 50.00  | bu   | -190<br>-229            | -182<br>-220 | -173<br>-211 | -164<br>-202 | -155<br>-193 | -146<br>-184 | -137<br>-175 | -128<br>-166 | -119<br>-157 | -110<br>-148 | -101<br>-140 |
| 60            | 60.00  | bu   | -166<br>-205            | -155<br>-194 | -145<br>-183 | -134<br>-172 | -123<br>-162 | -113<br>-151 | -102<br>-140 | -91<br>-130  | -80<br>-119  | -70<br>-108  | -59<br>-97   |
| 70            | 70.00  | bu   | -142<br>-180            | -129<br>-168 | -117<br>-155 | -104<br>-143 | -92<br>-130  | -79<br>-118  | -67<br>-105  | -54<br>-93   | -42<br>-80   | -29<br>-68   | -17<br>-55   |
| 80            | 80.00  | bu   | -118<br>-156            | -103<br>-142 | -89<br>-127  | -75<br>-113  | -61<br>-99   | -46<br>-85   | -32<br>-70   | -18<br>-56   | -3<br>-42    | 10<br>-27    | 24<br>-13    |
| 90            | 90.00  | bu   | -93<br>-132             | -77<br>-116  | -61<br>-100  | -45<br>-84   | -29<br>-67   | -13<br>-51   | 2<br>-35     | 18<br>-19    | 34<br>-3     | 50<br>12     | 66<br>28     |
| 100           | 100.00 | bu   | -69<br>-107             | -51<br>-90   | -33<br>-72   | -16<br>-54   | 1<br>-36     | 19<br>-18    | 37<br>-0     | 55<br>16     | 73<br>34     | 91<br>52     | 108<br>70    |
| 110           | 110.00 | bu   | -45<br>-83              | -25<br>-64   | -6<br>-44    | 13<br>-24    | 33<br>-5     | 52<br>14     | 72<br>34     | 92<br>53     | 111<br>73    | 131<br>93    | 151<br>112   |
| 120           | 120.00 | bu   | -21<br>-59              | 0<br>-38     | 21<br>-16    | 43<br>4      | 64<br>26     | 86<br>47     | 107<br>69    | 128<br>90    | 150<br>111   | 171<br>133   | 193<br>154   |
| 130           | 130.00 | bu   | 3<br>-35                | 26<br>-11    | 49<br>11     | 72<br>34     | 96<br>57     | 119<br>80    | 142<br>104   | 165<br>127   | 188<br>150   | 212<br>173   | 235<br>196   |
| 140           | 140.00 | bu   | 27<br>-10               | 52<br>14     | 77<br>39     | 102<br>64    | 127<br>89    | 152<br>114   | 177<br>139   | 202<br>164   | 227<br>189   | 252<br>213   | 277<br>238   |
| 150           | 150.00 | bu   | 51<br>13                | 78<br>40     | 105<br>66    | 132<br>93    | 158<br>120   | 185<br>147   | 212<br>173   | 239<br>200   | 265<br>227   | 292<br>254   | 319<br>281   |

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 2017 input prices.

Table 21.A Estimated costs per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| CUSTOM SPRAY             |      |         |          |         |           |
| App by Air ( 5 gal)      | appl | 6.50    | 2.0000   | 13.00   | _____     |
| App by Air ( 3 gal)      | appl | 5.00    | 1.0000   | 5.00    | _____     |
| FERTILIZERS              |      |         |          |         |           |
| Phosphorus (46% P2O5)    | cwt  | 18.75   | 1.0000   | 18.75   | _____     |
| Potash (60% K2O)         | cwt  | 18.98   | 0.7500   | 14.24   | _____     |
| Fert 41-0-0-4            | cwt  | 13.50   | 3.0480   | 41.15   | _____     |
| FUNGICIDES               |      |         |          |         |           |
| CruiserMaxx              | oz   | 4.25    | 4.5000   | 19.13   | _____     |
| Prosaro                  | oz   | 5.57    | 8.0000   | 44.56   | _____     |
| HERBICIDES               |      |         |          |         |           |
| Axiom                    | oz   | 1.92    | 10.0000  | 19.20   | _____     |
| Harmony Extra SG         | oz   | 13.79   | 0.7500   | 10.34   | _____     |
| Axial XL                 | oz   | 1.17    | 16.4000  | 19.19   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Karate Z                 | oz   | 2.74    | 1.5000   | 4.11    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Wheat Seed Private       | lb   | 0.29    | 90.0000  | 26.10   | _____     |
| CUSTOM FERTILIZE         |      |         |          |         |           |
| App Fert by Air          | cwt  | 7.00    | 3.0480   | 21.34   | _____     |
| HAULING                  |      |         |          |         |           |
| Haul Wheat               | bu   | 0.26    | 70.0000  | 18.20   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.6660   | 30.64   | _____     |
| CROP CONSULTANT          |      |         |          |         |           |
| Wheat Consultant         | acre | 5.50    | 1.0000   | 5.50    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 0.2648   | 3.58    | _____     |
| Harvesters               | hour | 13.51   | 0.1021   | 1.38    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1363   | 1.23    | _____     |
| UNALLOCATED LABOR        | hour | 13.45   | 0.2936   | 3.95    | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 2.3178   | 4.17    | _____     |
| Harvesters               | gal  | 1.80    | 1.3935   | 2.51    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 3.52    | 1.0000   | 3.52    | _____     |
| Tractors                 | acre | 1.26    | 1.0000   | 1.26    | _____     |
| Harvesters               | acre | 3.49    | 1.0000   | 3.49    | _____     |
| INTEREST ON OP. CAP.     | acre | 8.48    | 1.0000   | 8.48    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 347.34  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 7.79    | 1.0000   | 7.79    | _____     |
| Tractors                 | acre | 7.97    | 1.0000   | 7.97    | _____     |
| Harvesters               | acre | 13.77   | 1.0000   | 13.77   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 29.53   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 376.87  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 21.B Summary of estimated costs and returns per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Wheat                                  | bu   | 4.71    | 70.0000  | 329.70  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 329.70  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| CUSTOM SPRAY                           | acre | 18.00   | 1.0000   | 18.00   | _____     |
| FERTILIZERS                            | acre | 74.13   | 1.0000   | 74.13   | _____     |
| FUNGICIDES                             | acre | 63.69   | 1.0000   | 63.69   | _____     |
| HERBICIDES                             | acre | 48.73   | 1.0000   | 48.73   | _____     |
| INSECTICIDES                           | acre | 4.11    | 1.0000   | 4.11    | _____     |
| SEED/PLANTS                            | acre | 26.10   | 1.0000   | 26.10   | _____     |
| CUSTOM FERTILIZE                       | acre | 21.34   | 1.0000   | 21.34   | _____     |
| HAULING                                | acre | 18.20   | 1.0000   | 18.20   | _____     |
| CUSTOM LIME                            | acre | 30.64   | 1.0000   | 30.64   | _____     |
| CROP CONSULTANT                        | acre | 5.50    | 1.0000   | 5.50    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1363   | 1.23    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 0.3670   | 4.96    | _____     |
| UNALLOCATED LABOR                      | hour | 13.45   | 0.2936   | 3.95    | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 3.7114   | 6.68    | _____     |
| REPAIR & MAINTENANCE                   | acre | 8.27    | 1.0000   | 8.27    | _____     |
| INTEREST ON OP. CAP.                   | acre | 8.48    | 1.0000   | 8.48    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 347.34  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | -17.64  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 29.53   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 376.87  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | -47.17  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 21.C Estimated resource use for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|                               |               |                    |              |               |     | -----hours----- |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Sep | 0.3330          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Sep | 0.6660          |           |               |                |                |
| 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           |
| Phosphorus (46% P2O5)         | 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                         | oz            |                    |              |               |     | 10.0000         |           |               |                |                |
| App by Air ( 3 gal)           | appl          |                    |              | 1.00          | Feb | 1.0000          |           |               |                |                |
| Karate Z                      | oz            |                    |              |               |     | 1.5000          |           |               |                |                |
| Harmony Extra SG              | oz            |                    |              |               |     | 0.7500          |           |               |                |                |
| Axial XL                      | oz            |                    |              |               |     | 16.4000         |           |               |                |                |
| App Fert by Air               | cwt           |                    |              | 1.00          | Feb | 1.5240          |           |               |                |                |
| Fert 41-0-0-4                 | cwt           |                    |              |               |     | 1.5240          |           |               |                |                |
| App Fert by Air               | cwt           |                    |              | 1.00          | Mar | 1.5240          |           |               |                |                |
| Fert 41-0-0-4                 | cwt           |                    |              |               |     | 1.5240          |           |               |                |                |
| App by Air ( 5 gal)           | appl          |                    |              | 1.00          | Apr | 1.0000          |           |               |                |                |
| Prosaro                       | oz            |                    |              |               |     | 8.0000          |           |               |                |                |
| Header Wheat/Sorghum          | 25' Rigid     | 265 hp             | 0.102        | 1.00          | Jun |                 | 0.10      | 0.10          | 0.10           | 0.08           |
| Haul Wheat                    | bu            |                    |              |               |     | 70.0000         |           |               |                |                |
| TOTALS                        |               |                    |              |               |     |                 | 0.36      | 0.36          | 0.50           | 0.29           |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 21.D Estimated costs for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |      |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL | R&M  | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |      |      |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |      |      |       |       |       | 0.13   | 3.46          | 3.46          |
| Lime (Spread)                 | ton           | 30.64                 |      |      |       |       |       | 1.21   | 31.85         | 31.85         |
| Disk Harrow                   | 24'           |                       | 1.29 | 1.33 | 1.99  |       |       | 0.18   | 4.79          | 4.45 9.24     |
| Spin Spreader                 | 5 ton         |                       | 0.66 | 0.49 | 1.40  |       |       | 0.10   | 2.65          | 1.86 4.51     |
| Phosphorus (46% P2O5)         | cwt           | 18.75                 |      |      |       |       |       | 0.74   | 19.49         | 19.49         |
| Potash (60% K2O)              | cwt           | 14.24                 |      |      |       |       |       | 0.56   | 14.80         | 14.80         |
| Field Cultivate Fld           | 32'           |                       | 0.73 | 0.67 | 1.13  |       |       | 0.10   | 2.63          | 3.30 5.93     |
| Grain Drill                   | 20'           |                       | 1.49 | 1.77 | 3.14  |       |       | 0.23   | 6.63          | 5.36 11.99    |
| Wheat Seed Private            | lb            | 26.10                 |      |      |       |       |       | 0.93   | 27.03         | 27.03         |
| CruiserMaxx                   | oz            | 19.13                 |      |      |       |       |       | 0.68   | 19.81         | 19.81         |
| Wheat Consultant              | acre          | 5.50                  |      |      |       |       |       | 0.20   | 5.70          | 5.70          |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.21   | 6.71          | 6.71          |
| Axiom                         | oz            | 19.20                 |      |      |       |       |       | 0.61   | 19.81         | 19.81         |
| App by Air ( 3 gal)           | appl          | 5.00                  |      |      |       |       |       | 0.10   | 5.10          | 5.10          |
| Karate Z                      | oz            | 4.11                  |      |      |       |       |       | 0.08   | 4.19          | 4.19          |
| Harmony Extra SG              | oz            | 10.34                 |      |      |       |       |       | 0.20   | 10.54         | 10.54         |
| Axial XL                      | oz            | 19.19                 |      |      |       |       |       | 0.38   | 19.57         | 19.57         |
| App Fert by Air               | cwt           | 10.67                 |      |      |       |       |       | 0.21   | 10.88         | 10.88         |
| Fert 41-0-0-4                 | cwt           | 20.57                 |      |      |       |       |       | 0.41   | 20.98         | 20.98         |
| App Fert by Air               | cwt           | 10.67                 |      |      |       |       |       | 0.17   | 10.84         | 10.84         |
| Fert 41-0-0-4                 | cwt           | 20.57                 |      |      |       |       |       | 0.33   | 20.90         | 20.90         |
| App by Air ( 5 gal)           | appl          | 6.50                  |      |      |       |       |       | 0.08   | 6.58          | 6.58          |
| Prosaro                       | oz            | 44.56                 |      |      |       |       |       | 0.53   | 45.09         | 45.09         |
| Header Wheat/Sorghum          | 25' Rigid     |                       | 2.51 | 4.01 | 2.48  |       |       | 0.04   | 9.04          | 14.56 23.60   |
| Haul Wheat                    | bu            | 18.20                 |      |      |       |       |       | 0.07   | 18.27         | 18.27         |
| TOTALS                        |               | 313.77                | 6.68 | 8.27 | 10.14 | 0.00  | 8.48  | 347.34 | 29.53         | 376.87        |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 21.E Estimated monthly income and expense flows per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2018

| ITEM                  | Jul  | Aug  | Sep    | Oct     | Nov     | Dec     | Jan     | Feb     | Mar     | Apr     | May     | Jun    |
|-----------------------|------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |        |         |         |         |         |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 329.70 |
| DIRECT EXPENSES       |      |      |        |         |         |         |         |         |         |         |         |        |
| CUSTOM SPRAY          | 0.00 | 0.00 | 0.00   | 0.00    | 6.50    | 0.00    | 0.00    | 5.00    | 0.00    | 6.50    | 0.00    | 0.00   |
| FERTILIZERS           | 0.00 | 0.00 | 32.99  | 0.00    | 0.00    | 0.00    | 0.00    | 20.57   | 20.57   | 0.00    | 0.00    | 0.00   |
| FUNGICIDES            | 0.00 | 0.00 | 0.00   | 19.13   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 44.56   | 0.00    | 0.00   |
| HERBICIDES            | 0.00 | 0.00 | 0.00   | 0.00    | 19.20   | 0.00    | 0.00    | 29.53   | 0.00    | 0.00    | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 4.11    | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00   | 26.10   | 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    | 10.67   | 10.67   | 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 | 30.64  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| CROP CONSULTANT       | 0.00 | 0.00 | 0.00   | 5.50    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 3.33   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00 | 0.00 | 4.52   | 3.14    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 2.48   |
| 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 | 2.68   | 1.49    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 2.51   |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 2.49   | 1.77    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 4.01   |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 3.02   | 2.04    | 0.82    | 0.00    | 0.00    | 1.38    | 0.50    | 0.61    | 0.00    | 0.11   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 79.67  | 59.17   | 26.52   | 0.00    | 0.00    | 71.26   | 31.74   | 51.67   | 0.00    | 27.31  |
| NET INCOME            | 0.00 | 0.00 | -79.67 | -59.17  | -26.52  | 0.00    | 0.00    | -71.26  | -31.74  | -51.67  | 0.00    | 302.39 |
| NET INCOME TO DATE    | 0.00 | 0.00 | -79.67 | -138.84 | -165.36 | -165.36 | -165.36 | -236.62 | -268.36 | -320.03 | -320.03 | -17.64 |

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.



Table 21.F Estimated returns for various price/yield combinations, per acre  
Wheat followed by soybeans, 70 bu yield goal  
All Areas, Mississippi, 2018

|                    |        |    | PERCENT                 |      |      |      |      |      |      |      |      |      |      |
|--------------------|--------|----|-------------------------|------|------|------|------|------|------|------|------|------|------|
| PRODUCT            |        |    | 75                      | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  |
| -----              |        |    | -----PRODUCT PRICE----- |      |      |      |      |      |      |      |      |      |      |
| Wheat              |        |    | 3.53                    | 3.76 | 4.00 | 4.23 | 4.47 | 4.71 | 4.94 | 5.18 | 5.41 | 5.65 | 5.88 |
| PERCENT YIELD UNIT |        |    | -----dollars-----       |      |      |      |      |      |      |      |      |      |      |
| 50                 | 35.00  | bu | -214                    | -206 | -198 | -189 | -181 | -173 | -165 | -156 | -148 | -140 | -132 |
|                    |        |    | -244                    | -235 | -227 | -219 | -211 | -202 | -194 | -186 | -178 | -169 | -161 |
| 60                 | 42.00  | bu | -191                    | -181 | -171 | -161 | -152 | -142 | -132 | -122 | -112 | -102 | -92  |
|                    |        |    | -221                    | -211 | -201 | -191 | -181 | -171 | -161 | -151 | -142 | -132 | -122 |
| 70                 | 49.00  | bu | -168                    | -157 | -145 | -134 | -122 | -111 | -99  | -87  | -76  | -64  | -53  |
|                    |        |    | -198                    | -186 | -175 | -163 | -152 | -140 | -129 | -117 | -105 | -94  | -82  |
| 80                 | 56.00  | bu | -145                    | -132 | -119 | -106 | -93  | -79  | -66  | -53  | -40  | -27  | -13  |
|                    |        |    | -175                    | -162 | -149 | -135 | -122 | -109 | -96  | -83  | -69  | -56  | -43  |
| 90                 | 63.00  | bu | -122                    | -108 | -93  | -78  | -63  | -48  | -33  | -19  | -4   | 10   | 25   |
|                    |        |    | -152                    | -137 | -122 | -107 | -93  | -78  | -63  | -48  | -33  | -18  | -4   |
| 100                | 70.00  | bu | -100                    | -83  | -67  | -50  | -34  | -17  | -1   | 15   | 31   | 48   | 64   |
|                    |        |    | -129                    | -113 | -96  | -80  | -63  | -47  | -30  | -14  | 2    | 18   | 35   |
| 110                | 77.00  | bu | -77                     | -59  | -40  | -22  | -4   | 13   | 31   | 49   | 67   | 86   | 104  |
|                    |        |    | -106                    | -88  | -70  | -52  | -34  | -16  | 2    | 20   | 38   | 56   | 74   |
| 120                | 84.00  | bu | -54                     | -34  | -14  | 5    | 24   | 44   | 64   | 84   | 103  | 123  | 143  |
|                    |        |    | -83                     | -64  | -44  | -24  | -4   | 15   | 34   | 54   | 74   | 94   | 114  |
| 130                | 91.00  | bu | -31                     | -9   | 11   | 32   | 54   | 75   | 97   | 118  | 140  | 161  | 182  |
|                    |        |    | -60                     | -39  | -18  | 3    | 24   | 46   | 67   | 89   | 110  | 131  | 153  |
| 140                | 98.00  | bu | -8                      | 14   | 37   | 60   | 83   | 106  | 130  | 153  | 176  | 199  | 222  |
|                    |        |    | -37                     | -14  | 8    | 31   | 54   | 77   | 100  | 123  | 146  | 169  | 192  |
| 150                | 105.00 | bu | 14                      | 39   | 63   | 88   | 113  | 138  | 162  | 187  | 212  | 236  | 261  |
|                    |        |    | -15                     | 9    | 34   | 59   | 83   | 108  | 133  | 158  | 182  | 207  | 232  |

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 2017 input prices.

Table 22.A Estimated costs per acre  
Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| FUNGICIDES               |      |         |          |         |           |
| Bravo Weather Stick      | pt   | 6.56    | 5.5000   | 36.08   | _____     |
| Aframe                   | oz   | 1.96    | 36.0000  | 70.56   | _____     |
| Tebuconazole 3.6         | oz   | 0.71    | 7.2000   | 5.11    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | pt   | 2.25    | 4.0000   | 9.00    | _____     |
| Dual II Magnum           | pt   | 14.83   | 1.0000   | 14.83   | _____     |
| Valor SX                 | oz   | 4.57    | 3.0000   | 13.71   | _____     |
| Storm                    | pt   | 11.41   | 1.5000   | 17.12   | _____     |
| Cadre                    | oz   | 3.54    | 4.0000   | 14.16   | _____     |
| Butyrac 200 (2,4-DB)     | pt   | 4.34    | 2.0000   | 8.68    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Admire Pro               | oz   | 1.70    | 9.0000   | 15.30   | _____     |
| Acephate 90%             | lb   | 7.43    | 0.1375   | 1.02    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Peanut Seed              | lb   | 0.84    | 125.0000 | 105.00  | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Crop Oil Conc. (Veg.)    | pt   | 2.61    | 6.0000   | 15.66   | _____     |
| CLEANING                 |      |         |          |         |           |
| Cleaning Peanuts         | ton  | 18.00   | 1.5300   | 27.54   | _____     |
| DRYING                   |      |         |          |         |           |
| Dry Peanuts              | ton  | 24.00   | 1.0800   | 25.92   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize LIFT            | oz   | 0.59    | 14.8000  | 8.73    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 1.6246   | 21.96   | _____     |
| Self-Propelled           | hour | 13.51   | 0.1983   | 2.70    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1207   | 1.09    | _____     |
| Self-Propelled           | hour | 9.06    | 0.0991   | 0.90    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.50   | 1.4583   | 19.70   | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 17.5722  | 31.64   | _____     |
| Self-Propelled           | gal  | 1.80    | 1.7850   | 3.26    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 11.39   | 1.0000   | 11.39   | _____     |
| Tractors                 | acre | 9.87    | 1.0000   | 9.87    | _____     |
| Self-Propelled           | acre | 2.03    | 1.0000   | 2.03    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.77    | 1.0000   | 6.77    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 531.02  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 38.28   | 1.0000   | 38.28   | _____     |
| Tractors                 | acre | 62.11   | 1.0000   | 62.11   | _____     |
| Self-Propelled           | acre | 13.50   | 1.0000   | 13.50   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 113.89  | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 644.91  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.B Summary of estimated costs and returns per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Peanut Runner                          | ton  | 385.00  | 1.8000   | 693.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 693.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| FUNGICIDES                             | acre | 111.75  | 1.0000   | 111.75  | _____     |
| HERBICIDES                             | acre | 90.14   | 1.0000   | 90.14   | _____     |
| INSECTICIDES                           | acre | 16.32   | 1.0000   | 16.32   | _____     |
| SEED/PLANTS                            | acre | 105.00  | 1.0000   | 105.00  | _____     |
| ADJUVANTS                              | acre | 15.66   | 1.0000   | 15.66   | _____     |
| CLEANING                               | acre | 27.54   | 1.0000   | 27.54   | _____     |
| DRYING                                 | acre | 25.92   | 1.0000   | 25.92   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| INOCULANT                              | acre | 8.73    | 1.0000   | 8.73    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.2199   | 1.99    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.8229   | 24.66   | _____     |
| UNALLOCATED LABOR                      | hour | 13.50   | 1.4583   | 19.70   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 19.3573  | 34.90   | _____     |
| REPAIR & MAINTENANCE                   | acre | 23.29   | 1.0000   | 23.29   | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.77    | 1.0000   | 6.77    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 531.02  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 161.98  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 113.89  | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 644.91  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 48.09   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.C Estimated resource use for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT              | SIZE/<br>UNIT   | POWER UNIT<br>SIZE | PERF RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | POWER<br>IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |      |
|--|-----------------|--------------------|-----------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|------|
|  |                 |                    |           |               |     | -----hours----- |                    |               |                |                |      |
| Soil Test                                  | acre            |                    |           | 0.33          | Apr | 0.3330          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Glyphosate 3lbs a.e  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Apr | 4.0000          |                    | 0.01          | 0.02           | 0.01           |      |
| Lime (Spread)                              | ton             |                    |           | 0.33          | Apr | 0.3330          |                    |               |                |                |      |
| Bed-Rip/Disk Fold.                         | 8R-38           | MFWD 190           | 0.073     | 1.00          | May |                 | 0.07               | 0.07          | 0.07           | 0.05           |      |
| Peanut Plt&Pre Rigid                       | 8R-38           | MFWD 190           | 0.120     | 1.00          | May |                 | 0.12               | 0.12          | 0.24           | 0.09           |      |
| Peanut Seed                                | lb              |                    |           |               |     | 125.0000        |                    |               |                |                |      |
| Optimize LIFT                              | oz              |                    |           |               |     | 14.8000         |                    |               |                |                |      |
| Admire Pro                                 | oz              |                    |           |               |     | 9.0000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Dual II Magnum       | 60' 175hp<br>pt |                    | 0.017     | 1.00          | May | 1.0000          |                    | 0.01          | 0.02           | 0.01           |      |
| Valor SX                                   | oz              |                    |           |               |     | 3.0000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Acephate 90%         | 60' 175hp<br>lb |                    | 0.017     | 0.25          | May | 0.1375          |                    | 0.00          | 0.00           | 0.00           |      |
| Sprayer 600-750gal<br>Storm                | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jun | 1.5000          |                    | 0.01          | 0.02           | 0.01           |      |
| Cadre                                      | oz              |                    |           |               |     | 4.0000          |                    |               |                |                |      |
| Butyrac 200 (2,4-DB)                       | pt              |                    |           |               |     | 1.0000          |                    |               |                |                |      |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jun | 1.5000          |                    | 0.01          | 0.02           | 0.01           |      |
| Sprayer 600-750gal<br>Aframe               | 60' 175hp<br>oz |                    | 0.017     | 1.00          | Jul | 18.0000         |                    | 0.01          | 0.02           | 0.01           |      |
| Sprayer 600-750gal<br>Butyrac 200 (2,4-DB) | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |                    | 0.01          | 0.02           | 0.01           |      |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Select Max           | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |                    | 0.01          | 0.02           | 0.01           |      |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |                    | 0.01          | 0.02           | 0.01           |      |
| Tebuconazole 3.6                           | oz              |                    |           |               |     | 7.2000          |                    |               |                |                |      |
| Sprayer 600-750gal<br>Aframe               | 60' 175hp<br>oz |                    | 0.017     | 1.00          | Aug | 18.0000         |                    | 0.01          | 0.02           | 0.01           |      |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Aug | 1.5000          |                    | 0.01          | 0.02           | 0.01           |      |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Sep | 1.5000          |                    | 0.01          | 0.02           | 0.01           |      |
| Peanut Dig/Invertor                        | 4R-38           | MFWD 190           | 0.186     | 1.00          | Sep |                 | 0.18               | 0.18          | 0.18           | 0.14           |      |
| Peanut Harvester                           | 4R-38           | MFWD 225           | 0.934     | 1.00          | Sep |                 | 0.93               | 0.93          | 0.93           | 0.74           |      |
| Dry Peanuts                                | ton             |                    |           |               |     | 1.0800          |                    |               |                |                |      |
| Cleaning Peanuts                           | ton             |                    |           |               |     | 1.5300          |                    |               |                |                |      |
| Peanut Dump Cart                           | 6-Row           | MFWD 190           | 0.310     | 1.00          | Sep |                 | 0.31               | 0.31          | 0.31           | 0.24           |      |
| TOTALS                                     |                 |                    |           |               |     |                 |                    | 1.82          | 1.62           | 2.04           | 1.45 |

Note: Cost of production estimates are based on 2017 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.D Estimated costs for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.08   | 3.41          | 3.41          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Glyphosate 3lbs a.e           | pt            | 9.00                  |       |       |       |       |       | 0.21   | 9.21          | 9.21          |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.36   | 15.68         | 15.68         |
| Bed-Rip/Disk Fold.            | 8R-38         |                       | 1.29  | 0.53  | 1.78  |       |       | 0.07   | 3.67          | 3.13          |
| Peanut Plt&Pre Rigid          | 8R-38         |                       | 2.13  | 2.39  | 4.03  |       |       | 0.17   | 8.72          | 7.45          |
| Peanut Seed                   | lb            | 105.00                |       |       |       |       |       | 2.08   | 107.08        | 107.08        |
| Optimize LIFT                 | oz            | 8.73                  |       |       |       |       |       | 0.17   | 8.90          | 8.90          |
| Admire Pro                    | oz            | 15.30                 |       |       |       |       |       | 0.30   | 15.60         | 15.60         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Dual II Magnum                | pt            | 14.83                 |       |       |       |       |       | 0.29   | 15.12         | 15.12         |
| Valor SX                      | oz            | 13.71                 |       |       |       |       |       | 0.27   | 13.98         | 13.98         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.07  | 0.05  | 0.13  |       |       |        | 0.25          | 0.30          |
| Acephate 90%                  | lb            | 1.02                  |       |       |       |       |       | 0.02   | 1.04          | 1.04          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Storm                         | pt            | 17.12                 |       |       |       |       |       | 0.27   | 17.39         | 17.39         |
| Cadre                         | oz            | 14.16                 |       |       |       |       |       | 0.22   | 14.38         | 14.38         |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.07   | 4.41          | 4.41          |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.08   | 5.30          | 5.30          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.16   | 10.00         | 10.00         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.42   | 35.70         | 35.70         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.05   | 4.39          | 4.39          |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          | 5.28          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.15   | 12.79         | 12.79         |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          | 5.28          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Bravo Weather Stick           | pt            | 6.56                  |       |       |       |       |       | 0.08   | 6.64          | 6.64          |
| Tebuconazole 3.6              | oz            | 5.11                  |       |       |       |       |       | 0.06   | 5.17          | 5.17          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.28   | 35.56         | 35.56         |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.08   | 9.92          | 9.92          |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       |        | 0.98          | 1.20          |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.04   | 9.88          | 9.88          |
| Peanut Dig/Invertor           | 4R-38         |                       | 3.28  | 2.39  | 4.53  |       |       | 0.04   | 10.24         | 7.99          |
| Peanut Harvester              | 4R-38         |                       | 19.48 | 13.39 | 22.73 |       |       | 0.22   | 55.82         | 67.70         |
| Dry Peanuts                   | ton           | 25.92                 |       |       |       |       |       | 0.10   | 26.02         | 26.02         |
| Cleaning Peanuts              | ton           | 27.54                 |       |       |       |       |       | 0.11   | 27.65         | 27.65         |
| Peanut Dump Cart              | 6-Row         |                       | 5.46  | 2.56  | 7.54  |       |       | 0.06   | 15.62         | 14.12         |
| TOTALS                        |               | 419.71                | 34.90 | 23.29 | 46.35 | 0.00  | 6.77  | 531.02 | 113.89        | 644.91        |

Note: Cost of production estimates are based on 2017 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2018

| ITEM                  | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |      |      |      |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 693.00 |
| DIRECT EXPENSES       |      |      |      |      |      |      |        |         |         |         |         |        |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 9.84    | 46.95   | 45.12   | 9.84   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00   | 28.54   | 35.62   | 16.98   | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 16.32   | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 105.00  | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 5.22    | 10.44   | 0.00    | 0.00   |
| CLEANING              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 27.54  |
| DRYING                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 25.92  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.32  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 8.73    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51   | 6.45    | 1.02    | 2.04    | 1.02    | 35.31  |
| LEASE *               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29   | 3.78    | 0.58    | 1.16    | 0.58    | 28.51  |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18   | 3.15    | 0.36    | 0.72    | 0.36    | 18.52  |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67   | 3.39    | 0.84    | 0.92    | 0.38    | 0.57   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.30  | 175.36  | 53.48   | 79.21   | 47.46   | 146.21 |
| NET INCOME            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -175.36 | -53.48  | -79.21  | -47.46  | 546.79 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -204.66 | -258.14 | -337.35 | -384.81 | 161.98 |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.  
 \* Lease costs are based on hourly usage costs.

Table 22.F Estimated returns for various price/yield combinations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2018

| PRODUCT       |       |      | PERCENT       |              |              |              |              |              |              |              |              |             |             |
|---------------|-------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
|               |       |      | 75            | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120         | 125         |
|               |       |      | PRODUCT PRICE |              |              |              |              |              |              |              |              |             |             |
| Peanut Runner |       |      | 288.75        | 308.00       | 327.25       | 346.50       | 365.75       | 385.00       | 404.25       | 423.50       | 442.75       | 462.00      | 481.25      |
| PERCENT       | YIELD | UNIT | dollars       |              |              |              |              |              |              |              |              |             |             |
| 50            | 0.90  | ton  | -244<br>-358  | -226<br>-340 | -209<br>-323 | -192<br>-306 | -175<br>-288 | -157<br>-271 | -140<br>-254 | -123<br>-236 | -105<br>-219 | -88<br>-202 | -71<br>-184 |
| 60            | 1.08  | ton  | -197<br>-311  | -176<br>-290 | -156<br>-270 | -135<br>-249 | -114<br>-228 | -93<br>-207  | -72<br>-186  | -52<br>-166  | -31<br>-145  | -10<br>-124 | 10<br>-103  |
| 70            | 1.26  | ton  | -151<br>-264  | -126<br>-240 | -102<br>-216 | -78<br>-192  | -54<br>-167  | -29<br>-143  | -5<br>-119   | 18<br>-95    | 42<br>-70    | 67<br>-46   | 91<br>-22   |
| 80            | 1.44  | ton  | -104<br>-218  | -76<br>-190  | -49<br>-162  | -21<br>-135  | 6<br>-107    | 34<br>-79    | 61<br>-52    | 89<br>-24    | 117<br>3     | 144<br>31   | 172<br>58   |
| 90            | 1.62  | ton  | -57<br>-171   | -26<br>-140  | 4<br>-109    | 35<br>-78    | 66<br>-47    | 98<br>-15    | 129<br>15    | 160<br>46    | 191<br>77    | 222<br>108  | 253<br>140  |
| 100           | 1.80  | ton  | -11<br>-125   | 23<br>-90    | 58<br>-55    | 92<br>-21    | 127<br>13    | 161<br>48    | 196<br>82    | 231<br>117   | 265<br>152   | 300<br>186  | 335<br>221  |
| 110           | 1.98  | ton  | 35<br>-78     | 73<br>-40    | 111<br>-2    | 149<br>35    | 187<br>73    | 225<br>112   | 264<br>150   | 302<br>188   | 340<br>226   | 378<br>264  | 416<br>302  |
| 120           | 2.16  | ton  | 81<br>-31     | 123<br>9     | 165<br>51    | 206<br>92    | 248<br>134   | 289<br>175   | 331<br>217   | 373<br>259   | 414<br>300   | 456<br>342  | 497<br>383  |
| 130           | 2.34  | ton  | 128<br>14     | 173<br>59    | 218<br>104   | 263<br>149   | 308<br>194   | 353<br>239   | 398<br>284   | 443<br>329   | 488<br>375   | 533<br>420  | 579<br>465  |
| 140           | 2.52  | ton  | 175<br>61     | 223<br>109   | 272<br>158   | 320<br>206   | 369<br>255   | 417<br>303   | 466<br>352   | 514<br>400   | 563<br>449   | 611<br>497  | 660<br>546  |
| 150           | 2.70  | ton  | 221<br>107    | 273<br>159   | 325<br>211   | 377<br>263   | 429<br>315   | 481<br>367   | 533<br>419   | 585<br>471   | 637<br>523   | 689<br>575  | 741<br>627  |

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 2017 input prices.

Table 23.A Estimated costs per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| FUNGICIDES               |      |         |          |         |           |
| Bravo Weather Stick      | pt   | 6.56    | 5.5000   | 36.08   | _____     |
| Aframe                   | oz   | 1.96    | 36.0000  | 70.56   | _____     |
| Tebuconazole 3.6         | oz   | 0.71    | 7.2000   | 5.11    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | pt   | 2.25    | 4.0000   | 9.00    | _____     |
| Dual II Magnum           | pt   | 14.83   | 1.0000   | 14.83   | _____     |
| Valor SX                 | oz   | 4.57    | 3.0000   | 13.71   | _____     |
| Storm                    | pt   | 11.41   | 1.5000   | 17.12   | _____     |
| Cadre                    | oz   | 3.54    | 4.0000   | 14.16   | _____     |
| Butyrac 200 (2,4-DB)     | pt   | 4.34    | 2.0000   | 8.68    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Admire Pro               | oz   | 1.70    | 9.0000   | 15.30   | _____     |
| Acephate 90%             | lb   | 7.43    | 0.1375   | 1.02    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Peanut Seed              | lb   | 0.84    | 125.0000 | 105.00  | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Crop Oil Conc. (Veg.)    | pt   | 2.61    | 6.0000   | 15.66   | _____     |
| CLEANING                 |      |         |          |         |           |
| Cleaning Peanuts         | ton  | 18.00   | 1.5300   | 27.54   | _____     |
| DRYING                   |      |         |          |         |           |
| Dry Peanuts              | ton  | 24.00   | 1.0800   | 25.92   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize LIFT            | oz   | 0.59    | 14.8000  | 8.73    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 1.6876   | 22.80   | _____     |
| Self-Propelled           | hour | 13.51   | 0.1983   | 2.70    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.1527   | 1.38    | _____     |
| Self-Propelled           | hour | 9.06    | 0.0991   | 0.90    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.50   | 1.5087   | 20.38   | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 18.0359  | 32.47   | _____     |
| Self-Propelled           | gal  | 1.80    | 1.7850   | 3.26    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 11.87   | 1.0000   | 11.87   | _____     |
| Tractors                 | acre | 10.12   | 1.0000   | 10.12   | _____     |
| Self-Propelled           | acre | 2.03    | 1.0000   | 2.03    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.87    | 1.0000   | 6.87    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 534.49  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 36.61   | 1.0000   | 36.61   | _____     |
| Tractors                 | acre | 63.64   | 1.0000   | 63.64   | _____     |
| Self-Propelled           | acre | 13.50   | 1.0000   | 13.50   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 113.75  | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 648.24  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.



Table 23.B Summary of estimated costs and returns per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Peanut Runner                          | ton  | 385.00  | 1.8000   | 693.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 693.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| FUNGICIDES                             | acre | 111.75  | 1.0000   | 111.75  | _____     |
| HERBICIDES                             | acre | 90.14   | 1.0000   | 90.14   | _____     |
| INSECTICIDES                           | acre | 16.32   | 1.0000   | 16.32   | _____     |
| SEED/PLANTS                            | acre | 105.00  | 1.0000   | 105.00  | _____     |
| ADJUVANTS                              | acre | 15.66   | 1.0000   | 15.66   | _____     |
| CLEANING                               | acre | 27.54   | 1.0000   | 27.54   | _____     |
| DRYING                                 | acre | 25.92   | 1.0000   | 25.92   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| INOCULANT                              | acre | 8.73    | 1.0000   | 8.73    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.2519   | 2.28    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.8859   | 25.50   | _____     |
| UNALLOCATED LABOR                      | hour | 13.50   | 1.5087   | 20.38   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 19.8209  | 35.73   | _____     |
| REPAIR & MAINTENANCE                   | acre | 24.02   | 1.0000   | 24.02   | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.87    | 1.0000   | 6.87    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 534.49  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 158.51  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 113.75  | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 648.24  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 44.76   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.C Estimated resource use for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT              | SIZE/<br>UNIT   | POWER UNIT<br>SIZE | PERF RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|--|-----------------|--------------------|-----------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
|  |                 |                    |           |               |     | -----hours----- |           |               |                |                |
| Soil Test                                  | acre            |                    |           | 0.33          | Apr | 0.3330          |           |               |                |                |
| Sprayer 600-750gal<br>Glyphosate 3lbs a.e  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Apr | 4.0000          |           | 0.01          | 0.02           | 0.01           |
| Lime (Spread)                              | ton             |                    |           | 0.33          | Apr | 0.3330          |           |               |                |                |
| Bed-Rip/Disk Rigid                         | 8R-30           | MFWD 190           | 0.139     | 1.00          | May |                 | 0.13      | 0.13          | 0.13           | 0.11           |
| Peanut Plt&Pre Rigid                       | 8R-30           | MFWD 190           | 0.152     | 1.00          | May |                 | 0.15      | 0.15          | 0.30           | 0.12           |
| Peanut Seed                                | lb              |                    |           |               |     | 125.0000        |           |               |                |                |
| Optimize LIFT                              | oz              |                    |           |               |     | 14.8000         |           |               |                |                |
| Admire Pro                                 | oz              |                    |           |               |     | 9.0000          |           |               |                |                |
| Sprayer 600-750gal<br>Dual II Magnum       | 60' 175hp<br>pt |                    | 0.017     | 1.00          | May | 1.0000          |           | 0.01          | 0.02           | 0.01           |
| Valor SX                                   | oz              |                    |           |               |     | 3.0000          |           |               |                |                |
| Sprayer 600-750gal<br>Acephate 90%         | 60' 175hp<br>lb |                    | 0.017     | 0.25          | May | 0.1375          |           | 0.00          | 0.00           | 0.00           |
| Sprayer 600-750gal<br>Storm                | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jun | 1.5000          |           | 0.01          | 0.02           | 0.01           |
| Cadre                                      | oz              |                    |           |               |     | 4.0000          |           |               |                |                |
| Butyrac 200 (2,4-DB)                       | pt              |                    |           |               |     | 1.0000          |           |               |                |                |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jun | 1.5000          |           | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Aframe               | 60' 175hp<br>oz |                    | 0.017     | 1.00          | Jul | 18.0000         |           | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Butyrac 200 (2,4-DB) | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |           | 0.01          | 0.02           | 0.01           |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal<br>Select Max           | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |           | 0.01          | 0.02           | 0.01           |
| Crop Oil Conc. (Veg.)                      | pt              |                    |           |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Jul | 1.0000          |           | 0.01          | 0.02           | 0.01           |
| Tebuconazole 3.6                           | oz              |                    |           |               |     | 7.2000          |           |               |                |                |
| Sprayer 600-750gal<br>Aframe               | 60' 175hp<br>oz |                    | 0.017     | 1.00          | Aug | 18.0000         |           | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Aug | 1.5000          |           | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick  | 60' 175hp<br>pt |                    | 0.017     | 1.00          | Sep | 1.5000          |           | 0.01          | 0.02           | 0.01           |
| Peanut Dig/Invertor                        | 4R-30           | MFWD 190           | 0.235     | 1.00          | Sep |                 | 0.23      | 0.23          | 0.23           | 0.18           |
| Peanut Harvester                           | 4R-30           | MFWD 225           | 0.849     | 1.00          | Sep |                 | 0.85      | 0.85          | 0.85           | 0.68           |
| Dry Peanuts                                | ton             |                    |           |               |     | 1.0800          |           |               |                |                |
| Cleaning Peanuts                           | ton             |                    |           |               |     | 1.5300          |           |               |                |                |
| Peanut Dump Cart                           | 6-Row           | MFWD 190           | 0.310     | 1.00          | Sep |                 | 0.31      | 0.31          | 0.31           | 0.24           |
| TOTALS                                     |                 |                    |           |               |     |                 | 1.88      | 1.68          | 2.13           | 1.50           |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.D Estimated costs for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |        |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |        |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.08   | 3.41          |               | 3.41   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Glyphosate 3lbs a.e           | pt            | 9.00                  |       |       |       |       |       | 0.21   | 9.21          |               | 9.21   |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.36   | 15.68         |               | 15.68  |
| Bed-Rip/Disk Rigid            | 8R-30         |                       | 2.45  | 0.97  | 3.38  |       |       | 0.13   | 6.93          | 5.76          | 12.69  |
| Peanut Plt&Pre Rigid          | 8R-30         |                       | 2.69  | 3.25  | 5.09  |       |       | 0.22   | 11.25         | 9.84          | 21.09  |
| Peanut Seed                   | lb            | 105.00                |       |       |       |       |       | 2.08   | 107.08        |               | 107.08 |
| Optimize LIFT                 | oz            | 8.73                  |       |       |       |       |       | 0.17   | 8.90          |               | 8.90   |
| Admire Pro                    | oz            | 15.30                 |       |       |       |       |       | 0.30   | 15.60         |               | 15.60  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Dual II Magnum                | pt            | 14.83                 |       |       |       |       |       | 0.29   | 15.12         |               | 15.12  |
| Valor SX                      | oz            | 13.71                 |       |       |       |       |       | 0.27   | 13.98         |               | 13.98  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.07  | 0.05  | 0.13  |       |       |        | 0.25          | 0.30          | 0.55   |
| Acephate 90%                  | lb            | 1.02                  |       |       |       |       |       | 0.02   | 1.04          |               | 1.04   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Storm                         | pt            | 17.12                 |       |       |       |       |       | 0.27   | 17.39         |               | 17.39  |
| Cadre                         | oz            | 14.16                 |       |       |       |       |       | 0.22   | 14.38         |               | 14.38  |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.07   | 4.41          |               | 4.41   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.08   | 5.30          |               | 5.30   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.16   | 10.00         |               | 10.00  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.42   | 35.70         |               | 35.70  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.05   | 4.39          |               | 4.39   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.15   | 12.79         |               | 12.79  |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 6.56                  |       |       |       |       |       | 0.08   | 6.64          |               | 6.64   |
| Tebuconazole 3.6              | oz            | 5.11                  |       |       |       |       |       | 0.06   | 5.17          |               | 5.17   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.28   | 35.56         |               | 35.56  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.08   | 9.92          |               | 9.92   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       |        | 0.98          | 1.20          | 2.18   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.04   | 9.88          |               | 9.88   |
| Peanut Dig/Invertor           | 4R-30         |                       | 4.15  | 3.03  | 5.74  |       |       | 0.05   | 12.97         | 10.12         | 23.09  |
| Peanut Harvester              | 4R-30         |                       | 17.72 | 12.18 | 20.67 |       |       | 0.20   | 50.77         | 60.41         | 111.18 |
| Dry Peanuts                   | ton           | 25.92                 |       |       |       |       |       | 0.10   | 26.02         |               | 26.02  |
| Cleaning Peanuts              | ton           | 27.54                 |       |       |       |       |       | 0.11   | 27.65         |               | 27.65  |
| Peanut Dump Cart              | 6-Row         |                       | 5.46  | 2.56  | 7.54  |       |       | 0.06   | 15.62         | 14.12         | 29.74  |
| TOTALS                        |               | 419.71                | 35.73 | 24.02 | 48.16 | 0.00  | 6.87  | 534.49 | 113.75        | 648.24        |        |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

| ITEM                  | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |      |      |      |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 693.00 |
| DIRECT EXPENSES       |      |      |      |      |      |      |        |         |         |         |         |        |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 9.84    | 46.95   | 45.12   | 9.84   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00   | 28.54   | 35.62   | 16.98   | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 16.32   | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 105.00  | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 5.22    | 10.44   | 0.00    | 0.00   |
| CLEANING              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 27.54  |
| DRYING                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 25.92  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.32  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 8.73    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51   | 9.11    | 1.02    | 2.04    | 1.02    | 34.46  |
| LEASE *               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29   | 5.50    | 0.58    | 1.16    | 0.58    | 27.62  |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18   | 4.45    | 0.36    | 0.72    | 0.36    | 17.95  |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67   | 3.50    | 0.84    | 0.92    | 0.38    | 0.56   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.30  | 181.15  | 53.48   | 79.21   | 47.46   | 143.89 |
| NET INCOME            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -181.15 | -53.48  | -79.21  | -47.46  | 549.11 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -210.45 | -263.93 | -343.14 | -390.60 | 158.51 |

Note: Cost of production estimates are based on 2017 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2018

|               |       |      | PERCENT      |              |              |              |              |              |              |              |              |             |             |
|---------------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| PRODUCT       |       |      | 75           | 80           | 85           | 90           | 95           | 100          | 105          | 110          | 115          | 120         | 125         |
| Peanut Runner |       |      | 288.75       | 308.00       | 327.25       | 346.50       | 365.75       | 385.00       | 404.25       | 423.50       | 442.75       | 462.00      | 481.25      |
| PERCENT       | YIELD | UNIT | dollars      |              |              |              |              |              |              |              |              |             |             |
| 50            | 0.90  | ton  | -247<br>-361 | -230<br>-344 | -213<br>-326 | -195<br>-309 | -178<br>-292 | -161<br>-274 | -143<br>-257 | -126<br>-240 | -109<br>-222 | -91<br>-205 | -74<br>-188 |
| 60            | 1.08  | ton  | -201<br>-314 | -180<br>-294 | -159<br>-273 | -138<br>-252 | -118<br>-231 | -97<br>-210  | -76<br>-190  | -55<br>-169  | -34<br>-148  | -14<br>-127 | 6<br>-107   |
| 70            | 1.26  | ton  | -154<br>-268 | -130<br>-244 | -106<br>-219 | -81<br>-195  | -57<br>-171  | -33<br>-147  | -9<br>-122   | 15<br>-98    | 39<br>-74    | 63<br>-50   | 87<br>-25   |
| 80            | 1.44  | ton  | -107<br>-221 | -80<br>-193  | -52<br>-166  | -24<br>-138  | 2<br>-110    | 30<br>-83    | 58<br>-55    | 86<br>-27    | 113<br>0     | 141<br>27   | 169<br>55   |
| 90            | 1.62  | ton  | -61<br>-175  | -30<br>-143  | 1<br>-112    | 32<br>-81    | 63<br>-50    | 94<br>-19    | 125<br>12    | 156<br>43    | 188<br>74    | 219<br>105  | 250<br>136  |
| 100           | 1.80  | ton  | -14<br>-128  | 19<br>-93    | 54<br>-59    | 89<br>-24    | 123<br>10    | 158<br>44    | 193<br>79    | 227<br>114   | 262<br>148   | 297<br>183  | 331<br>218  |
| 110           | 1.98  | ton  | 31<br>-81    | 69<br>-43    | 108<br>-5    | 146<br>32    | 184<br>70    | 222<br>108   | 260<br>146   | 298<br>184   | 336<br>223   | 374<br>261  | 413<br>299  |
| 120           | 2.16  | ton  | 78<br>-35    | 120<br>6     | 161<br>47    | 203<br>89    | 244<br>131   | 286<br>172   | 327<br>214   | 369<br>255   | 411<br>297   | 452<br>338  | 494<br>380  |
| 130           | 2.34  | ton  | 125<br>11    | 170<br>56    | 215<br>101   | 260<br>146   | 305<br>191   | 350<br>236   | 395<br>281   | 440<br>326   | 485<br>371   | 530<br>416  | 575<br>461  |
| 140           | 2.52  | ton  | 171<br>57    | 220<br>106   | 268<br>154   | 317<br>203   | 365<br>251   | 414<br>300   | 462<br>349   | 511<br>397   | 559<br>446   | 608<br>494  | 656<br>543  |
| 150           | 2.70  | ton  | 218<br>104   | 270<br>156   | 322<br>208   | 374<br>260   | 426<br>312   | 478<br>364   | 530<br>416   | 582<br>468   | 634<br>520   | 686<br>572  | 738<br>624  |

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 2017 input prices.

Table 24.A Estimated costs per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| FUNGICIDES               |      |         |          |         |           |
| Bravo Weather Stick      | pt   | 6.56    | 5.5000   | 36.08   | _____     |
| Aframe                   | oz   | 1.96    | 36.0000  | 70.56   | _____     |
| Tebuconazole 3.6         | oz   | 0.71    | 7.2000   | 5.11    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | pt   | 2.25    | 4.0000   | 9.00    | _____     |
| Dual II Magnum           | pt   | 14.83   | 1.0000   | 14.83   | _____     |
| Valor SX                 | oz   | 4.57    | 3.0000   | 13.71   | _____     |
| Storm                    | pt   | 11.41   | 1.5000   | 17.12   | _____     |
| Cadre                    | oz   | 3.54    | 4.0000   | 14.16   | _____     |
| Butyrac 200 (2,4-DB)     | pt   | 4.34    | 2.0000   | 8.68    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Admire Pro               | oz   | 1.70    | 9.0000   | 15.30   | _____     |
| Acephate 90%             | lb   | 7.43    | 0.1375   | 1.02    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Peanut Seed              | lb   | 0.84    | 125.0000 | 105.00  | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Crop Oil Conc. (Veg.)    | pt   | 2.61    | 6.0000   | 15.66   | _____     |
| CLEANING                 |      |         |          |         |           |
| Cleaning Peanuts         | ton  | 18.00   | 1.5300   | 27.54   | _____     |
| DRYING                   |      |         |          |         |           |
| Dry Peanuts              | ton  | 24.00   | 1.0800   | 25.92   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize LIFT            | oz   | 0.59    | 14.8000  | 8.73    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 1.1856   | 16.02   | _____     |
| Self-Propelled           | hour | 13.51   | 0.1983   | 2.70    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0804   | 0.73    | _____     |
| Self-Propelled           | hour | 9.06    | 0.0991   | 0.90    | _____     |
| UNALLOCATED LABOR        | hour | 13.51   | 1.1072   | 14.96   | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 12.8051  | 23.05   | _____     |
| Self-Propelled           | gal  | 1.80    | 1.7850   | 3.26    | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 8.97    | 1.0000   | 8.97    | _____     |
| Tractors                 | acre | 7.18    | 1.0000   | 7.18    | _____     |
| Self-Propelled           | acre | 2.03    | 1.0000   | 2.03    | _____     |
| INTEREST ON OP. CAP.     | acre | 6.64    | 1.0000   | 6.64    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 506.15  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 31.91   | 1.0000   | 31.91   | _____     |
| Tractors                 | acre | 45.25   | 1.0000   | 45.25   | _____     |
| Self-Propelled           | acre | 13.50   | 1.0000   | 13.50   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 90.66   | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 596.81  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 24.B Summary of estimated costs and returns per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Peanut Runner                          | ton  | 385.00  | 1.8000   | 693.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 693.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| FUNGICIDES                             | acre | 111.75  | 1.0000   | 111.75  | _____     |
| HERBICIDES                             | acre | 90.14   | 1.0000   | 90.14   | _____     |
| INSECTICIDES                           | acre | 16.32   | 1.0000   | 16.32   | _____     |
| SEED/PLANTS                            | acre | 105.00  | 1.0000   | 105.00  | _____     |
| ADJUVANTS                              | acre | 15.66   | 1.0000   | 15.66   | _____     |
| CLEANING                               | acre | 27.54   | 1.0000   | 27.54   | _____     |
| DRYING                                 | acre | 25.92   | 1.0000   | 25.92   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| INOCULANT                              | acre | 8.73    | 1.0000   | 8.73    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1795   | 1.63    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.3840   | 18.72   | _____     |
| UNALLOCATED LABOR                      | hour | 13.51   | 1.1072   | 14.96   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 14.5901  | 26.31   | _____     |
| REPAIR & MAINTENANCE                   | acre | 18.18   | 1.0000   | 18.18   | _____     |
| INTEREST ON OP. CAP.                   | acre | 6.64    | 1.0000   | 6.64    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 506.15  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 186.85  | _____     |
| TOTAL FIXED EXPENSES                   |      |         |          | 90.66   | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 596.81  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 96.19   | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

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

Table 24.C Estimated resource use for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF<br>RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT | IMPLEMENT | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours-----               |               |                    |              |               |     |                 |           |               |                |                |
| Soil Test                     | acre          |                    |              | 0.33          | Apr | 0.3330          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Apr |                 |           | 0.01          | 0.02           | 0.01           |
| Glyphosate 3lbs a.e           | pt            |                    |              |               |     | 4.0000          |           |               |                |                |
| Lime (Spread)                 | ton           |                    |              | 0.33          | Apr | 0.3330          |           |               |                |                |
| Bed-Rip/Disk Fold.            | 12R-38        | MFWD 225           | 0.046        | 1.00          | May |                 | 0.04      | 0.04          | 0.04           | 0.03           |
| Peanut Plt&Pre Fold.          | 12R-38        | MFWD 190           | 0.080        | 1.00          | May |                 | 0.08      | 0.08          | 0.16           | 0.06           |
| Peanut Seed                   | lb            |                    |              |               |     | 125.0000        |           |               |                |                |
| Optimize LIFT                 | oz            |                    |              |               |     | 14.8000         |           |               |                |                |
| Admire Pro                    | oz            |                    |              |               |     | 9.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | May |                 |           | 0.01          | 0.02           | 0.01           |
| Dual II Magnum                | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Valor SX                      | oz            |                    |              |               |     | 3.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 0.25          | May |                 |           | 0.00          | 0.00           | 0.00           |
| Acephate 90%                  | lb            |                    |              |               |     | 0.1375          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Storm                         | pt            |                    |              |               |     | 1.5000          |           |               |                |                |
| Cadre                         | oz            |                    |              |               |     | 4.0000          |           |               |                |                |
| Butyrac 200 (2,4-DB)          | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Crop Oil Conc.(Veg.)          | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jun |                 |           | 0.01          | 0.02           | 0.01           |
| Bravo Weather Stick           | pt            |                    |              |               |     | 1.5000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Aframe                        | oz            |                    |              |               |     | 18.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Butyrac 200 (2,4-DB)          | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Crop Oil Conc.(Veg.)          | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Select Max                    | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Crop Oil Conc.(Veg.)          | pt            |                    |              |               |     | 2.0000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Jul |                 |           | 0.01          | 0.02           | 0.01           |
| Bravo Weather Stick           | pt            |                    |              |               |     | 1.0000          |           |               |                |                |
| Tebuconazole 3.6              | oz            |                    |              |               |     | 7.2000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Aframe                        | oz            |                    |              |               |     | 18.0000         |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Aug |                 |           | 0.01          | 0.02           | 0.01           |
| Bravo Weather Stick           | pt            |                    |              |               |     | 1.5000          |           |               |                |                |
| Sprayer 600-750gal            | 60' 175hp     |                    | 0.017        | 1.00          | Sep |                 |           | 0.01          | 0.02           | 0.01           |
| Bravo Weather Stick           | pt            |                    |              |               |     | 1.5000          |           |               |                |                |
| Peanut Dig/Invertor           | 6R-38         | MFWD 190           | 0.124        | 1.00          | Sep |                 | 0.12      | 0.12          | 0.12           | 0.09           |
| Peanut Harvester              | 6R-38         | MFWD 225           | 0.625        | 1.00          | Sep |                 | 0.62      | 0.62          | 0.62           | 0.50           |
| Dry Peanuts                   | ton           |                    |              |               |     | 1.0800          |           |               |                |                |
| Cleaning Peanuts              | ton           |                    |              |               |     | 1.5300          |           |               |                |                |
| Peanut Dump Cart              | 6-Row         | MFWD 190           | 0.310        | 1.00          | Sep |                 | 0.31      | 0.31          | 0.31           | 0.24           |
| TOTALS                        |               |                    |              |               |     |                 | 1.38      | 1.18          | 1.56           | 1.10           |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.



Table 24.D Estimated costs for field operations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |        |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |        |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.08   | 3.41          |               | 3.41   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Glyphosate 3lbs a.e           | pt            | 9.00                  |       |       |       |       |       | 0.21   | 9.21          |               | 9.21   |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.36   | 15.68         |               | 15.68  |
| Bed-Rip/Disk Fold.            | 12R-38        |                       | 0.96  | 0.43  | 1.12  |       |       | 0.05   | 2.56          | 2.53          | 5.09   |
| Peanut Plt&Pre Fold.          | 12R-38        |                       | 1.42  | 2.88  | 2.69  |       |       | 0.14   | 7.13          | 7.42          | 14.55  |
| Peanut Seed                   | lb            | 105.00                |       |       |       |       |       | 2.08   | 107.08        |               | 107.08 |
| Optimize LIFT                 | oz            | 8.73                  |       |       |       |       |       | 0.17   | 8.90          |               | 8.90   |
| Admire Pro                    | oz            | 15.30                 |       |       |       |       |       | 0.30   | 15.60         |               | 15.60  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Dual II Magnum                | pt            | 14.83                 |       |       |       |       |       | 0.29   | 15.12         |               | 15.12  |
| Valor SX                      | oz            | 13.71                 |       |       |       |       |       | 0.27   | 13.98         |               | 13.98  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.07  | 0.05  | 0.13  |       |       |        | 0.25          | 0.30          | 0.55   |
| Acephate 90%                  | lb            | 1.02                  |       |       |       |       |       | 0.02   | 1.04          |               | 1.04   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Storm                         | pt            | 17.12                 |       |       |       |       |       | 0.27   | 17.39         |               | 17.39  |
| Cadre                         | oz            | 14.16                 |       |       |       |       |       | 0.22   | 14.38         |               | 14.38  |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.07   | 4.41          |               | 4.41   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.08   | 5.30          |               | 5.30   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.16   | 10.00         |               | 10.00  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.42   | 35.70         |               | 35.70  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.05   | 4.39          |               | 4.39   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.15   | 12.79         |               | 12.79  |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 6.56                  |       |       |       |       |       | 0.08   | 6.64          |               | 6.64   |
| Tebuconazole 3.6              | oz            | 5.11                  |       |       |       |       |       | 0.06   | 5.17          |               | 5.17   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.28   | 35.56         |               | 35.56  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.08   | 9.92          |               | 9.92   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       |        | 0.98          | 1.20          | 2.18   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.04   | 9.88          |               | 9.88   |
| Peanut Dig/Invertor           | 6R-38         |                       | 2.18  | 1.62  | 3.02  |       |       | 0.03   | 6.85          | 5.82          | 12.67  |
| Peanut Harvester              | 6R-38         |                       | 13.03 | 8.66  | 15.20 |       |       | 0.15   | 37.04         | 47.27         | 84.31  |
| Dry Peanuts                   | ton           | 25.92                 |       |       |       |       |       | 0.10   | 26.02         |               | 26.02  |
| Cleaning Peanuts              | ton           | 27.54                 |       |       |       |       |       | 0.11   | 27.65         |               | 27.65  |
| Peanut Dump Cart              | 6-Row         |                       | 5.46  | 2.56  | 7.54  |       |       | 0.06   | 15.62         | 14.12         | 29.74  |
| TOTALS                        |               | 419.71                | 26.31 | 18.18 | 35.31 | 0.00  | 6.64  | 506.15 | 90.66         | 596.81        |        |

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 24.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

| ITEM                  | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |      |      |      |      |      |      |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 693.00 |
| DIRECT EXPENSES       |      |      |      |      |      |      |        |         |         |         |         |        |
| FUNGICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 9.84    | 46.95   | 45.12   | 9.84   |
| HERBICIDES            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00   | 28.54   | 35.62   | 16.98   | 0.00    | 0.00   |
| INSECTICIDES          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 16.32   | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 105.00  | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 5.22    | 10.44   | 0.00    | 0.00   |
| CLEANING              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 27.54  |
| DRYING                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 25.92  |
| CUSTOM LIME           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.32  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 8.73    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51   | 4.45    | 1.02    | 2.04    | 1.02    | 26.27  |
| LEASE *               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| FUEL                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29   | 2.74    | 0.58    | 1.16    | 0.58    | 20.96  |
| REPAIR & MAINTENANCE  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18   | 3.54    | 0.36    | 0.72    | 0.36    | 13.02  |
| INTEREST ON OP. CAP.  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67   | 3.34    | 0.84    | 0.92    | 0.38    | 0.49   |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.30  | 172.66  | 53.48   | 79.21   | 47.46   | 124.04 |
| NET INCOME            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -172.66 | -53.48  | -79.21  | -47.46  | 568.96 |
| NET INCOME TO DATE    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -29.30 | -201.96 | -255.44 | -334.65 | -382.11 | 186.85 |

Note: Cost of production estimates are based on 2017 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2018

|               |       |      | PERCENT       |              |              |              |              |              |              |             |             |             |             |
|---------------|-------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| PRODUCT       |       |      | 75            | 80           | 85           | 90           | 95           | 100          | 105          | 110         | 115         | 120         | 125         |
| Peanut Runner |       |      | 288.75        | 308.00       | 327.25       | 346.50       | 365.75       | 385.00       | 404.25       | 423.50      | 442.75      | 462.00      | 481.25      |
| PERCENT       | YIELD | UNIT | PRODUCT PRICE |              |              |              |              |              |              |             |             |             |             |
|               |       |      | dollars       |              |              |              |              |              |              |             |             |             |             |
| 50            | 0.90  | ton  | -219<br>-310  | -202<br>-292 | -184<br>-275 | -167<br>-258 | -150<br>-240 | -132<br>-223 | -115<br>-206 | -98<br>-188 | -80<br>-171 | -63<br>-154 | -46<br>-136 |
| 60            | 1.08  | ton  | -172<br>-263  | -152<br>-242 | -131<br>-221 | -110<br>-201 | -89<br>-180  | -68<br>-159  | -48<br>-138  | -27<br>-117 | -6<br>-97   | 14<br>-76   | 35<br>-55   |
| 70            | 1.26  | ton  | -126<br>-216  | -101<br>-192 | -77<br>-168  | -53<br>-144  | -29<br>-119  | -4<br>-95    | 19<br>-71    | 43<br>-47   | 67<br>-22   | 92<br>1     | 116<br>25   |
| 80            | 1.44  | ton  | -79<br>-170   | -51<br>-142  | -24<br>-114  | 3<br>-87     | 31<br>-59    | 58<br>-31    | 86<br>-3     | 114<br>23   | 142<br>51   | 169<br>79   | 197<br>106  |
| 90            | 1.62  | ton  | -33<br>-123   | -1<br>-92    | 29<br>-61    | 60<br>-30    | 91<br>1      | 122<br>32    | 154<br>63    | 185<br>94   | 216<br>125  | 247<br>156  | 278<br>188  |
| 100           | 1.80  | ton  | 13<br>-77     | 48<br>-42    | 82<br>-7     | 117<br>26    | 152<br>61    | 186<br>96    | 221<br>130   | 256<br>165  | 290<br>200  | 325<br>234  | 360<br>269  |
| 110           | 1.98  | ton  | 60<br>-30     | 98<br>7      | 136<br>45    | 174<br>83    | 212<br>122   | 250<br>160   | 288<br>198   | 327<br>236  | 365<br>274  | 403<br>312  | 441<br>350  |
| 120           | 2.16  | ton  | 106<br>16     | 148<br>57    | 189<br>99    | 231<br>140   | 273<br>182   | 314<br>224   | 356<br>265   | 397<br>307  | 439<br>348  | 481<br>390  | 522<br>431  |
| 130           | 2.34  | ton  | 153<br>62     | 198<br>107   | 243<br>152   | 288<br>197   | 333<br>242   | 378<br>287   | 423<br>333   | 468<br>378  | 513<br>423  | 558<br>468  | 603<br>513  |
| 140           | 2.52  | ton  | 200<br>109    | 248<br>157   | 297<br>206   | 345<br>254   | 394<br>303   | 442<br>351   | 491<br>400   | 539<br>448  | 588<br>497  | 636<br>545  | 685<br>594  |
| 150           | 2.70  | ton  | 246<br>155    | 298<br>207   | 350<br>259   | 402<br>311   | 454<br>363   | 506<br>415   | 558<br>467   | 610<br>519  | 662<br>571  | 714<br>623  | 766<br>675  |

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 2017 input prices.

Table 25.A Estimated costs per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

| ITEM                     | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
|                          |      | dollars |          | dollars |           |
| DIRECT EXPENSES          |      |         |          |         |           |
| FUNGICIDES               |      |         |          |         |           |
| Bravo Weather Stick      | pt   | 6.56    | 5.5000   | 36.08   | _____     |
| Aframe                   | oz   | 1.96    | 36.0000  | 70.56   | _____     |
| Tebuconazole 3.6         | oz   | 0.71    | 7.2000   | 5.11    | _____     |
| HERBICIDES               |      |         |          |         |           |
| Glyphosate 3lbs a.e      | pt   | 2.25    | 4.0000   | 9.00    | _____     |
| Dual II Magnum           | pt   | 14.83   | 1.0000   | 14.83   | _____     |
| Valor SX                 | oz   | 4.57    | 3.0000   | 13.71   | _____     |
| Storm                    | pt   | 11.41   | 1.5000   | 17.12   | _____     |
| Cadre                    | oz   | 3.54    | 4.0000   | 14.16   | _____     |
| Butyrac 200 (2,4-DB)     | pt   | 4.34    | 2.0000   | 8.68    | _____     |
| Select Max               | pt   | 12.64   | 1.0000   | 12.64   | _____     |
| INSECTICIDES             |      |         |          |         |           |
| Admire Pro               | oz   | 1.70    | 9.0000   | 15.30   | _____     |
| Acephate 90%             | lb   | 7.43    | 0.1375   | 1.02    | _____     |
| IRRIGATION SUPPLIES      |      |         |          |         |           |
| Roll-Out Pipe            | ft   | 0.25    | 33.0000  | 8.25    | _____     |
| SEED/PLANTS              |      |         |          |         |           |
| Peanut Seed              | lb   | 0.84    | 125.0000 | 105.00  | _____     |
| ADJUVANTS                |      |         |          |         |           |
| Crop Oil Conc. (Veg.)    | pt   | 2.61    | 6.0000   | 15.66   | _____     |
| CLEANING                 |      |         |          |         |           |
| Cleaning Peanuts         | ton  | 18.00   | 1.8700   | 33.66   | _____     |
| DRYING                   |      |         |          |         |           |
| Dry Peanuts              | ton  | 24.00   | 1.3200   | 31.68   | _____     |
| CUSTOM LIME              |      |         |          |         |           |
| Lime (Spread)            | ton  | 46.00   | 0.3330   | 15.32   | _____     |
| INOCULANT                |      |         |          |         |           |
| Optimize LIFT            | oz   | 0.59    | 14.8000  | 8.73    | _____     |
| SOIL TEST                |      |         |          |         |           |
| Soil Test                | acre | 10.00   | 0.3330   | 3.33    | _____     |
| OPERATOR LABOR           |      |         |          |         |           |
| Tractors                 | hour | 13.51   | 1.2642   | 17.08   | _____     |
| Self-Propelled           | hour | 13.51   | 0.1983   | 2.70    | _____     |
| IRRIGATE LABOR           |      |         |          |         |           |
| Special Labor            | hour | 9.06    | 0.3250   | 2.96    | _____     |
| Implements               | hour | 9.06    | 0.0625   | 0.57    | _____     |
| HAND LABOR               |      |         |          |         |           |
| Implements               | hour | 9.06    | 0.0804   | 0.73    | _____     |
| Self-Propelled           | hour | 9.06    | 0.0991   | 0.90    | _____     |
| UNALLOCATED LABOR        |      |         |          |         |           |
|                          | hour | 13.51   | 1.1072   | 14.96   | _____     |
| DIESEL FUEL              |      |         |          |         |           |
| Tractors                 | gal  | 1.80    | 13.5313  | 24.37   | _____     |
| Self-Propelled           | gal  | 1.80    | 1.7850   | 3.26    | _____     |
| Irrigate Peanuts         | gal  | 1.80    | 9.7755   | 17.60   | _____     |
| REPAIR & MAINTENANCE     |      |         |          |         |           |
| Implements               | acre | 9.17    | 1.0000   | 9.17    | _____     |
| Tractors                 | acre | 7.57    | 1.0000   | 7.57    | _____     |
| Self-Propelled           | acre | 2.03    | 1.0000   | 2.03    | _____     |
| Irrigate Peanuts         | acre | 6.88    | 1.0000   | 6.88    | _____     |
| INTEREST ON OP. CAP.     | acre | 7.31    | 1.0000   | 7.31    | _____     |
| TOTAL DIRECT EXPENSES    |      |         |          | 557.93  | _____     |
| FIXED EXPENSES           |      |         |          |         |           |
| Implements               | acre | 32.93   | 1.0000   | 32.93   | _____     |
| Tractors                 | acre | 47.76   | 1.0000   | 47.76   | _____     |
| Self-Propelled           | acre | 13.50   | 1.0000   | 13.50   | _____     |
| Irrigate Peanuts         | acre | 53.42   | 1.0000   | 53.42   | _____     |
| TOTAL FIXED EXPENSES     |      |         |          | 147.61  | _____     |
| TOTAL SPECIFIED EXPENSES |      |         |          | 705.54  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.B Summary of estimated costs and returns per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

| ITEM                                   | UNIT | PRICE   | QUANTITY | AMOUNT  | YOUR FARM |
|--|------|---------|----------|---------|-----------|
|  |      | dollars |          | dollars |           |
| INCOME                                 |      |         |          |         |           |
| Peanut Runner                          | ton  | 385.00  | 2.2000   | 847.00  | _____     |
|  |      |         |          | -----   |           |
| TOTAL INCOME                           |      |         |          | 847.00  | _____     |
| DIRECT EXPENSES                        |      |         |          |         |           |
| FUNGICIDES                             | acre | 111.75  | 1.0000   | 111.75  | _____     |
| HERBICIDES                             | acre | 90.14   | 1.0000   | 90.14   | _____     |
| INSECTICIDES                           | acre | 16.32   | 1.0000   | 16.32   | _____     |
| IRRIGATION SUPPLIES                    | acre | 8.25    | 1.0000   | 8.25    | _____     |
| SEED/PLANTS                            | acre | 105.00  | 1.0000   | 105.00  | _____     |
| ADJUVANTS                              | acre | 15.66   | 1.0000   | 15.66   | _____     |
| CLEANING                               | acre | 33.66   | 1.0000   | 33.66   | _____     |
| DRYING                                 | acre | 31.68   | 1.0000   | 31.68   | _____     |
| CUSTOM LIME                            | acre | 15.32   | 1.0000   | 15.32   | _____     |
| INOCULANT                              | acre | 8.73    | 1.0000   | 8.73    | _____     |
| SOIL TEST                              | acre | 3.33    | 1.0000   | 3.33    | _____     |
| HAND LABOR                             | hour | 9.06    | 0.1795   | 1.63    | _____     |
| IRRIGATE LABOR                         | hour | 9.06    | 0.3875   | 3.53    | _____     |
| OPERATOR LABOR                         | hour | 13.51   | 1.4625   | 19.78   | _____     |
| UNALLOCATED LABOR                      | hour | 13.51   | 1.1072   | 14.96   | _____     |
| DIESEL FUEL                            | gal  | 1.80    | 25.0919  | 45.23   | _____     |
| REPAIR & MAINTENANCE                   | acre | 25.65   | 1.0000   | 25.65   | _____     |
| INTEREST ON OP. CAP.                   | acre | 7.31    | 1.0000   | 7.31    | _____     |
|  |      |         |          | -----   |           |
| TOTAL DIRECT EXPENSES                  |      |         |          | 557.93  | _____     |
| RETURNS ABOVE DIRECT EXPENSES          |      |         |          | 289.07  | _____     |
|  |      |         |          |         |           |
| TOTAL FIXED EXPENSES                   |      |         |          | 147.61  | _____     |
|  |      |         |          | -----   |           |
| TOTAL SPECIFIED EXPENSES               |      |         |          | 705.54  | _____     |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES |      |         |          | 141.46  | _____     |

Note: Cost of production estimates are based on 2017 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.C Estimated resource use for field operations, per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT   | SIZE/<br>UNIT                     | POWER UNIT<br>SIZE | PERF RATE | TIMES<br>OVER | MTH | INPUT<br>AMOUNT                      | POWER<br>UNIT | ALLOC<br>LABOR | UNALL<br>LABOR |
|---|-----------------------------------|--------------------|-----------|---------------|-----|--------------------------------------|---------------|----------------|----------------|
|   |                                   |                    |           |               |     | -----hours-----                      |               |                |                |
| Soil Test   | acre                              |                    |           | 0.33          | Apr | 0.3330                               |               |                |                |
| Sprayer 600-750gal<br>Glyphosate 3lbs a.e   | 60' 175hp<br>pt                   |                    | 0.017     | 1.00          | Apr | 4.0000                               | 0.01          | 0.02           | 0.01           |
| Lime (Spread)   | ton                               |                    |           | 0.33          | Apr | 0.3330                               |               |                |                |
| Bed-Rip/Disk Fold.  | 12R-38                            | MFWD 225           | 0.046     | 1.00          | May |                                      | 0.04          | 0.04           | 0.03           |
| Peanut Plt&Pre Fold.  | 12R-38                            | MFWD 190           | 0.080     | 1.00          | May |                                      | 0.08          | 0.08           | 0.06           |
| Peanut Seed   | lb                                |                    |           |               |     | 125.0000                             |               |                |                |
| Optimize LIFT   | oz                                |                    |           |               |     | 14.8000                              |               |                |                |
| Admire Pro  | oz                                |                    |           |               |     | 9.0000                               |               |                |                |
| Sprayer 600-750gal<br>Dual II Magnum<br>Valor SX                                      | 60' 175hp<br>pt<br>oz             |                    | 0.017     | 1.00          | May | 1.0000<br>3.0000                     | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Acephate 90%  | 60' 175hp<br>lb                   |                    | 0.017     | 0.25          | May | 0.1375                               | 0.00          | 0.00           | 0.00           |
| Sprayer 600-750gal<br>Storm<br>Cadre<br>Butyrac 200 (2,4-DB)<br>Crop Oil Conc. (Veg.) | 60' 175hp<br>pt<br>oz<br>pt<br>pt |                    | 0.017     | 1.00          | Jun | 1.5000<br>4.0000<br>1.0000<br>2.0000 | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick   | 60' 175hp<br>pt                   |                    | 0.017     | 1.00          | Jun | 1.5000                               | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Aframe  | 60' 175hp<br>oz                   |                    | 0.017     | 1.00          | Jul | 18.0000                              | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Butyrac 200 (2,4-DB)<br>Crop Oil Conc. (Veg.)                   | 60' 175hp<br>pt<br>pt             |                    | 0.017     | 1.00          | Jul | 1.0000<br>2.0000                     | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Select Max<br>Crop Oil Conc. (Veg.)                             | 60' 175hp<br>pt<br>pt             |                    | 0.017     | 1.00          | Jul | 1.0000<br>2.0000                     | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick<br>Tebuconazole 3.6                         | 60' 175hp<br>pt<br>oz             |                    | 0.017     | 1.00          | Jul | 1.0000<br>7.2000                     | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Aframe  | 60' 175hp<br>oz                   |                    | 0.017     | 1.00          | Aug | 18.0000                              | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick   | 60' 175hp<br>pt                   |                    | 0.017     | 1.00          | Aug | 1.5000                               | 0.01          | 0.02           | 0.01           |
| Sprayer 600-750gal<br>Bravo Weather Stick   | 60' 175hp<br>pt                   |                    | 0.017     | 1.00          | Sep | 1.5000                               | 0.01          | 0.02           | 0.01           |
| Peanut Dig/Invertor   | 6R-38                             | MFWD 190           | 0.124     | 1.00          | Sep |                                      | 0.12          | 0.12           | 0.09           |
| Peanut Harvester<br>Dry Peanuts<br>Cleaning Peanuts                                   | 6R-38<br>ton<br>ton               | MFWD 225           | 0.625     | 1.00          | Sep | 1.3200<br>1.8700                     | 0.62          | 0.62           | 0.50           |
| Peanut Dump Cart  | 6-Row                             | MFWD 190           | 0.310     | 1.00          | Sep |                                      | 0.31          | 0.31           | 0.24           |
| Irrigate Peanuts  | acre                              |                    |           |               | Jan | 1.0000                               | 0.07          | 0.07           | 0.46           |
| <b>TOTALS</b>   |                                   |                    |           |               |     | -----                                |               |                |                |
|   |                                   |                    |           |               |     | 1.46                                 | 1.26          | 2.02           | 1.10           |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.D Estimated costs for field operations, per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |        | FIXED<br>COST | TOTAL<br>COST |        |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
|                               |               | OP INPUT              | FUEL  | R&M   | LABOR | LEASE | INTER | TOTAL  |               |               |        |
| -----dollars-----             |               |                       |       |       |       |       |       |        |               |               |        |
| Soil Test                     | acre          | 3.33                  |       |       |       |       |       | 0.08   | 3.41          |               | 3.41   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Glyphosate 3lbs a.e           | pt            | 9.00                  |       |       |       |       |       | 0.21   | 9.21          |               | 9.21   |
| Lime (Spread)                 | ton           | 15.32                 |       |       |       |       |       | 0.36   | 15.68         |               | 15.68  |
| Bed-Rip/Disk Fold.            | 12R-38        |                       | 0.96  | 0.43  | 1.12  |       |       | 0.05   | 2.56          | 2.53          | 5.09   |
| Peanut Plt&Pre Fold.          | 12R-38        |                       | 1.42  | 2.88  | 2.69  |       |       | 0.14   | 7.13          | 7.42          | 14.55  |
| Peanut Seed                   | lb            | 105.00                |       |       |       |       |       | 2.08   | 107.08        |               | 107.08 |
| Optimize LIFT                 | oz            | 8.73                  |       |       |       |       |       | 0.17   | 8.90          |               | 8.90   |
| Admire Pro                    | oz            | 15.30                 |       |       |       |       |       | 0.30   | 15.60         |               | 15.60  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Dual II Magnum                | pt            | 14.83                 |       |       |       |       |       | 0.29   | 15.12         |               | 15.12  |
| Valor SX                      | oz            | 13.71                 |       |       |       |       |       | 0.27   | 13.98         |               | 13.98  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.07  | 0.05  | 0.13  |       |       |        | 0.25          | 0.30          | 0.55   |
| Acephate 90%                  | lb            | 1.02                  |       |       |       |       |       | 0.02   | 1.04          |               | 1.04   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Storm                         | pt            | 17.12                 |       |       |       |       |       | 0.27   | 17.39         |               | 17.39  |
| Cadre                         | oz            | 14.16                 |       |       |       |       |       | 0.22   | 14.38         |               | 14.38  |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.07   | 4.41          |               | 4.41   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.08   | 5.30          |               | 5.30   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.02   | 1.00          | 1.20          | 2.20   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.16   | 10.00         |               | 10.00  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.42   | 35.70         |               | 35.70  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Butyrac 200 (2,4-DB)          | pt            | 4.34                  |       |       |       |       |       | 0.05   | 4.39          |               | 4.39   |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Select Max                    | pt            | 12.64                 |       |       |       |       |       | 0.15   | 12.79         |               | 12.79  |
| Crop Oil Conc.(Veg.)          | pt            | 5.22                  |       |       |       |       |       | 0.06   | 5.28          |               | 5.28   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 6.56                  |       |       |       |       |       | 0.08   | 6.64          |               | 6.64   |
| Tebuconazole 3.6              | oz            | 5.11                  |       |       |       |       |       | 0.06   | 5.17          |               | 5.17   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Aframe                        | oz            | 35.28                 |       |       |       |       |       | 0.28   | 35.56         |               | 35.56  |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       | 0.01   | 0.99          | 1.20          | 2.19   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.08   | 9.92          |               | 9.92   |
| Sprayer 600-750gal            | 60' 175hp     |                       | 0.29  | 0.18  | 0.51  |       |       |        | 0.98          | 1.20          | 2.18   |
| Bravo Weather Stick           | pt            | 9.84                  |       |       |       |       |       | 0.04   | 9.88          |               | 9.88   |
| Peanut Dig/Invertor           | 6R-38         |                       | 2.18  | 1.62  | 3.02  |       |       | 0.03   | 6.85          | 5.82          | 12.67  |
| Peanut Harvester              | 6R-38         |                       | 13.03 | 8.66  | 15.20 |       |       | 0.15   | 37.04         | 47.27         | 84.31  |
| Dry Peanuts                   | ton           | 31.68                 |       |       |       |       |       | 0.13   | 31.81         |               | 31.81  |
| Cleaning Peanuts              | ton           | 33.66                 |       |       |       |       |       | 0.13   | 33.79         |               | 33.79  |
| Peanut Dump Cart              | 6-Row         |                       | 5.46  | 2.56  | 7.54  |       |       | 0.06   | 15.62         | 14.12         | 29.74  |
| Irrigate Peanuts              | acre          | 8.25                  | 18.92 | 7.47  | 4.59  |       |       | 0.62   | 39.85         | 56.95         | 96.80  |
| TOTALS                        |               | 439.84                | 45.23 | 25.65 | 39.90 | 0.00  | 7.31  | 557.93 | 147.61        | 705.54        |        |

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.E Estimated monthly income and expense flows per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

| ITEM                  | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr    | May     | Jun     | Jul     | Aug     | Sep    |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|--------|
| -----dollars-----     |       |       |       |       |       |       |        |         |         |         |         |        |
| TOTAL INCOME          | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 847.00 |
| DIRECT EXPENSES       |       |       |       |       |       |       |        |         |         |         |         |        |
| FUNGICIDES            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 9.84    | 46.95   | 45.12   | 9.84   |
| HERBICIDES            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 9.00   | 28.54   | 35.62   | 16.98   | 0.00    | 0.00   |
| INSECTICIDES          | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 16.32   | 0.00    | 0.00    | 0.00    | 0.00   |
| IRRIGATION SUPPLIES   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 8.25    | 0.00    | 0.00    | 0.00    | 0.00   |
| SEED/PLANTS           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 105.00  | 0.00    | 0.00    | 0.00    | 0.00   |
| ADJUVANTS             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 5.22    | 10.44   | 0.00    | 0.00   |
| CLEANING              | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 33.66  |
| DRYING                | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 31.68  |
| CUSTOM LIME           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 15.32  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| INOCULANT             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 8.73    | 0.00    | 0.00    | 0.00    | 0.00   |
| SOIL TEST             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 3.33   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00   |
| LABOR                 | 0.51  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.74   | 6.79    | 1.25    | 2.50    | 1.84    | 26.27  |
| 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                  | 0.67  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.29   | 3.09    | 4.98    | 9.96    | 5.28    | 20.96  |
| REPAIR & MAINTENANCE  | 0.31  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.18   | 6.65    | 1.34    | 2.68    | 1.47    | 13.02  |
| INTEREST ON OP. CAP.  | 0.07  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.68   | 3.62    | 0.93    | 1.04    | 0.43    | 0.54   |
| TOTAL DIRECT EXPENSES | 1.56  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 29.54  | 186.99  | 59.18   | 90.55   | 54.14   | 135.97 |
| NET INCOME            | -1.56 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -29.54 | -186.99 | -59.18  | -90.55  | -54.14  | 711.03 |
| NET INCOME TO DATE    | -1.56 | -1.56 | -1.56 | -1.56 | -1.56 | -1.56 | -31.10 | -218.09 | -277.27 | -367.82 | -421.96 | 289.07 |

Note: Cost of production estimates are based on 2017 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.



Table 25.F Estimated returns for various price/yield combinations, per acre  
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2018

|               |       |      | PERCENT      |              |              |              |              |              |             |             |             |             |            |
|---------------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| PRODUCT       |       |      | 75           | 80           | 85           | 90           | 95           | 100          | 105         | 110         | 115         | 120         | 125        |
| Peanut Runner |       |      | 288.75       | 308.00       | 327.25       | 346.50       | 365.75       | 385.00       | 404.25      | 423.50      | 442.75      | 462.00      | 481.25     |
| PERCENT       | YIELD | UNIT | dollars      |              |              |              |              |              |             |             |             |             |            |
| 50            | 1.10  | ton  | -207<br>-355 | -186<br>-333 | -165<br>-312 | -143<br>-291 | -122<br>-270 | -101<br>-249 | -80<br>-228 | -59<br>-206 | -38<br>-185 | -16<br>-164 | 4<br>-143  |
| 60            | 1.32  | ton  | -150<br>-298 | -125<br>-272 | -99<br>-247  | -74<br>-221  | -48<br>-196  | -23<br>-171  | 1<br>-145   | 27<br>-120  | 52<br>-94   | 78<br>-69   | 103<br>-44 |
| 70            | 1.54  | ton  | -93<br>-241  | -63<br>-211  | -34<br>-181  | -4<br>-152   | 25<br>-122   | 54<br>-92    | 84<br>-63   | 113<br>-33  | 143<br>-4   | 173<br>25   | 202<br>55  |
| 80            | 1.76  | ton  | -36<br>-184  | -2<br>-150   | 31<br>-116   | 65<br>-82    | 98<br>-48    | 132<br>-14   | 166<br>19   | 200<br>52   | 234<br>86   | 268<br>120  | 302<br>154 |
| 90            | 1.98  | ton  | 20<br>-127   | 58<br>-89    | 96<br>-51    | 134<br>-12   | 172<br>25    | 210<br>63    | 249<br>101  | 287<br>139  | 325<br>177  | 363<br>215  | 401<br>253 |
| 100           | 2.20  | ton  | 77<br>-70    | 119<br>-27   | 162<br>14    | 204<br>56    | 246<br>99    | 289<br>141   | 331<br>183  | 373<br>226  | 416<br>268  | 458<br>310  | 500<br>353 |
| 110           | 2.42  | ton  | 134<br>-13   | 180<br>33    | 227<br>79    | 274<br>126   | 320<br>173   | 367<br>219   | 413<br>266  | 460<br>312  | 506<br>359  | 553<br>405  | 600<br>452 |
| 120           | 2.64  | ton  | 191<br>43    | 242<br>94    | 292<br>145   | 343<br>196   | 394<br>246   | 445<br>297   | 496<br>348  | 546<br>399  | 597<br>450  | 648<br>501  | 699<br>551 |
| 130           | 2.86  | ton  | 248<br>100   | 303<br>155   | 358<br>210   | 413<br>265   | 468<br>320   | 523<br>375   | 578<br>430  | 633<br>485  | 688<br>541  | 743<br>596  | 798<br>651 |
| 140           | 3.08  | ton  | 305<br>157   | 364<br>216   | 423<br>276   | 483<br>335   | 542<br>394   | 601<br>454   | 660<br>513  | 720<br>572  | 779<br>631  | 838<br>691  | 898<br>750 |
| 150           | 3.30  | ton  | 362<br>214   | 425<br>278   | 489<br>341   | 552<br>405   | 616<br>468   | 679<br>532   | 743<br>595  | 806<br>659  | 870<br>722  | 933<br>786  | 997<br>849 |

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 2017 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, 2018

| 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    | 328,000        | 300        | 8           | 13.64    | 13.51             | 24.55 | 34.16 | 72.22        | 134.81 | 207.04     |
| Combine (300-349 hp)  | 325 hp    | 355,000        | 300        | 8           | 16.73    | 13.51             | 30.11 | 36.97 | 80.60        | 145.91 | 226.51     |
| Combine (350-399 hp)  | 355 hp    | 354,000        | 300        | 8           | 18.27    | 13.51             | 32.88 | 36.87 | 83.27        | 145.50 | 228.77     |
| Combine (400-449 hp)  | 425 hp    | 413,000        | 300        | 8           | 21.87    | 13.51             | 39.37 | 43.02 | 95.90        | 169.75 | 265.65     |
| Combine (450-499hp)   | 475 hp    | 427,000        | 300        | 8           | 24.44    | 13.51             | 44.00 | 44.47 | 101.99       | 175.50 | 277.50     |
| Tractor ( 20-39hp)CB  | MFWD 30   | 28,300         | 600        | 8           | 1.54     | 13.51             | 2.77  | 0.88  | 17.17        | 5.32   | 22.49      |
| Tractor ( 20-39hp)RB  | MFWD 30   | 20,000         | 600        | 8           | 1.54     | 13.51             | 2.77  | 0.62  | 16.91        | 3.76   | 20.67      |
| Tractor ( 40-59hp)CB  | 2WD 50    | 32,300         | 600        | 8           | 2.57     | 13.51             | 4.63  | 1.00  | 19.15        | 6.07   | 25.22      |
| Tractor ( 40-59hp)CB  | MFWD 50   | 39,500         | 600        | 8           | 2.57     | 13.51             | 4.63  | 1.23  | 19.37        | 7.42   | 26.80      |
| Tractor ( 40-59hp)RB  | 2WD 50    | 21,100         | 600        | 8           | 2.57     | 13.51             | 4.63  | 0.65  | 18.80        | 3.96   | 22.76      |
| Tractor ( 40-59hp)RB  | MFWD 50   | 24,800         | 600        | 8           | 2.57     | 13.51             | 4.63  | 0.77  | 18.91        | 4.66   | 23.58      |
| Tractor ( 60-89hp)CB  | 2WD 75    | 49,300         | 600        | 8           | 3.86     | 13.51             | 6.94  | 1.54  | 21.99        | 9.27   | 31.27      |
| Tractor ( 60-89hp)CB  | MFWD 75   | 52,500         | 600        | 8           | 3.86     | 13.51             | 6.94  | 1.64  | 22.09        | 9.87   | 31.97      |
| Tractor ( 60-89hp)RB  | 2WD 75    | 33,100         | 600        | 8           | 3.86     | 13.51             | 6.94  | 1.03  | 21.49        | 6.22   | 27.71      |
| Tractor ( 60-89hp)RB  | MFWD 75   | 37,800         | 600        | 8           | 3.86     | 13.51             | 6.94  | 1.18  | 21.63        | 7.10   | 28.74      |
| Tractor ( 90-119hp)CB | 2WD 105   | 66,300         | 600        | 8           | 5.40     | 13.51             | 9.72  | 2.07  | 25.31        | 12.46  | 37.77      |
| Tractor ( 90-119hp)CB | MFWD 105  | 76,100         | 600        | 8           | 5.40     | 13.51             | 9.72  | 2.37  | 25.61        | 14.31  | 39.92      |
| Tractor ( 90-119hp)RB | 2WD 105   | 60,300         | 600        | 8           | 5.40     | 13.51             | 9.72  | 1.88  | 25.12        | 11.33  | 36.46      |
| Tractor ( 90-119hp)RB | MFWD 105  | 67,800         | 600        | 8           | 5.40     | 13.51             | 9.72  | 2.11  | 25.35        | 12.75  | 38.10      |
| Tractor (120-139hp)CB | 2WD 130   | 103,000        | 600        | 8           | 6.69     | 13.51             | 12.04 | 3.21  | 28.77        | 19.36  | 48.14      |
| Tractor (120-139hp)CB | MFWD 130  | 113,000        | 600        | 8           | 6.69     | 13.51             | 12.04 | 3.53  | 29.08        | 21.25  | 50.33      |
| Tractor (140-159hp)CB | MFWD 150  | 131,000        | 600        | 8           | 7.72     | 13.51             | 13.89 | 4.09  | 31.50        | 24.63  | 56.13      |
| Tractor (160-179hp)CB | MFWD 170  | 153,000        | 600        | 8           | 8.75     | 13.51             | 15.75 | 4.78  | 34.04        | 30.10  | 64.14      |
| Tractor (180-199hp)CB | MFWD 190  | 173,000        | 600        | 8           | 9.77     | 13.51             | 17.60 | 5.40  | 36.51        | 34.04  | 70.56      |
| Tractor (200-249hp)CB | MFWD 225  | 210,000        | 600        | 8           | 11.58    | 13.51             | 20.84 | 6.56  | 40.91        | 41.32  | 82.24      |
| Tractor (250-349hp)CB | 4WD 300   | 285,000        | 600        | 8           | 15.44    | 13.51             | 27.79 | 8.90  | 50.21        | 56.08  | 106.29     |
| Tractor (250-349hp)CB | MFWD 300  | 272,000        | 600        | 8           | 15.44    | 13.51             | 27.79 | 8.50  | 49.80        | 53.52  | 103.32     |
| Tractor (250-349hp)CB | Track 300 | 318,000        | 600        | 8           | 15.44    | 13.51             | 27.79 | 9.93  | 51.24        | 62.57  | 113.81     |
| Tractor (350-449hp)   | Track 400 | 341,000        | 600        | 8           | 20.58    | 13.51             | 37.06 | 10.65 | 61.22        | 67.10  | 128.32     |
| Tractor (350-449hp)CB | 4WD 400   | 331,000        | 600        | 8           | 20.58    | 13.51             | 37.06 | 10.34 | 60.91        | 65.13  | 126.04     |
| Tractor (450-550hp)CB | 4WD 500   | 367,000        | 600        | 8           | 25.73    | 13.51             | 46.32 | 11.46 | 71.30        | 72.21  | 143.52     |
| Tractor (450-550hp)CB | Track 500 | 445,000        | 600        | 8           | 25.73    | 13.51             | 46.32 | 13.90 | 73.74        | 87.56  | 161.30     |
| Utility Vehicle       | 800 CC    | 10,000         | 200        | 8           | 0.70     | 13.51             | 1.47  | 1.56  | 16.54        | 6.16   | 22.70      |
| Utility Vehicle       | 900 CC    | 12,600         | 200        | 8           | 1.00     | 13.51             | 2.10  | 1.96  | 17.57        | 7.76   | 25.34      |
| Utility Vehicle-mule  | 600 CC    | 8,340          | 200        | 8           | 0.50     | 13.51             | 1.05  | 1.30  | 15.86        | 5.14   | 21.00      |

## 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, 2018

| 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     | 5.81              | 5.97  | 10.79 | 22.58        | 42.59  | 65.17      |
| Cotton Picker        | 4R-38 (350) | 351,000        | 200        | 8           | 18.01    | 0.257     | 5.81              | 8.35  | 14.13 | 28.31        | 55.78  | 84.09      |
| Cotton Picker        | 4R2x1 (350) | 357,000        | 200        | 8           | 18.01    | 0.172     | 3.88              | 5.58  | 9.61  | 19.08        | 37.92  | 57.01      |
| Cotton Picker        | 6R-30 (355) | 465,000        | 200        | 8           | 18.27    | 0.218     | 4.92              | 7.17  | 15.85 | 27.96        | 62.56  | 90.53      |
| Cotton Picker        | 6R-38 (355) | 465,000        | 200        | 8           | 18.27    | 0.172     | 3.88              | 5.66  | 12.51 | 22.07        | 49.39  | 71.47      |
| Cotton Picker/Modu   | 4R-38 (365) | 536,000        | 200        | 8           | 20.58    | 0.257     | 5.81              | 9.55  | 21.58 | 36.96        | 85.18  | 122.14     |
| Cotton Picker/Modu   | 6R-30 (500) | 764,000        | 200        | 8           | 25.73    | 0.218     | 4.92              | 10.11 | 26.05 | 41.08        | 102.80 | 143.89     |
| Cotton Picker/Module | 6R-38 (500) | 765,000        | 200        | 8           | 25.73    | 0.172     | 3.88              | 7.98  | 20.59 | 32.46        | 81.26  | 113.73     |
| Dry Applicator SP    | 70'300cuft  | 306,000        | 350        | 8           | 16.98    | 0.015     | 0.27              | 0.46  | 0.24  | 0.98         | 1.62   | 2.61       |
| Sprayer 600-750gal   | 60' 175hp   | 193,000        | 350        | 8           | 9.00     | 0.017     | 0.31              | 0.28  | 0.18  | 0.78         | 1.19   | 1.98       |
| Sprayer 600-825gal   | 80' 175hp   | 202,000        | 350        | 8           | 11.81    | 0.013     | 0.23              | 0.28  | 0.14  | 0.66         | 0.94   | 1.60       |
| Sprayer 600-825gal   | 90' 250hp   | 279,000        | 350        | 8           | 12.73    | 0.011     | 0.21              | 0.26  | 0.17  | 0.65         | 1.15   | 1.81       |
| Sprayer 800gal       | 100' 250hp  | 280,000        | 350        | 8           | 14.15    | 0.010     | 0.19              | 0.26  | 0.15  | 0.61         | 1.04   | 1.66       |
| Sprayer 800gal       | 80' 250hp   | 254,000        | 350        | 8           | 12.86    | 0.013     | 0.23              | 0.30  | 0.17  | 0.72         | 1.18   | 1.90       |
| Sprayer 1000-1400gal | 90' 275hp   | 299,000        | 350        | 8           | 14.15    | 0.010     | 0.19              | 0.26  | 0.16  | 0.62         | 1.11   | 1.74       |
| Sprayer 1000gal      | 100' 300hp  | 310,000        | 350        | 8           | 15.44    | 0.010     | 0.19              | 0.29  | 0.17  | 0.66         | 1.15   | 1.81       |
| Sprayer 1200+gal     | 120' 300hp  | 334,000        | 350        | 8           | 15.44    | 0.008     | 0.15              | 0.24  | 0.15  | 0.56         | 1.03   | 1.59       |
| xxCotton Picker/Modu | 6R-38 (365) | 536,000        | 200        | 8           | 20.58    | 0.172     | 3.88              | 6.38  | 14.43 | 24.70        | 56.94  | 81.64      |

Notes:  
 Labor: includes allocated labor plus any additional labor from self-propelled machine.  
 Direct: Does not include interest on operating capital.

Appendix Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018

| 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----- |           |      |              |           |      |            |       |
| Bed-Paratill         | Fold  | 8R-38       | MFWD 225       | 54,400     | 150         | 12        | 0.080 | 1.09              | 1.68      | 1.58 | 0.52         | 4.89      | 2.75 | 3.33       | 10.98 |
| Bed-Paratill         | Fold  | 8R-38 2x1   | MFWD 225       | 69,100     | 150         | 12        | 0.053 | 0.72              | 1.12      | 1.34 | 0.35         | 3.54      | 2.32 | 2.22       | 8.09  |
| Bed-Paratill         | Fold  | 12R-38      | MFWD 225       | 69,100     | 150         | 12        | 0.053 | 0.72              | 1.12      | 1.34 | 0.35         | 3.54      | 2.32 | 2.22       | 8.09  |
| Bed-Paratill         | Rigid | 4R-30       | MFWD 225       | 12,300     | 150         | 12        | 0.204 | 2.76              | 4.25      | 0.90 | 1.34         | 9.26      | 1.57 | 8.44       | 19.28 |
| Bed-Paratill         | Rigid | 4R-38       | MFWD 225       | 12,300     | 150         | 12        | 0.160 | 2.17              | 3.35      | 0.71 | 1.05         | 7.29      | 1.23 | 6.64       | 15.18 |
| Bed-Paratill         | Rigid | 6R-30       | MFWD 225       | 17,300     | 150         | 12        | 0.136 | 1.84              | 2.83      | 0.85 | 0.89         | 6.42      | 1.47 | 5.62       | 13.53 |
| Bed-Paratill         | Rigid | 6R-38       | MFWD 225       | 17,200     | 150         | 12        | 0.107 | 1.45              | 2.24      | 0.66 | 0.70         | 5.06      | 1.15 | 4.44       | 10.67 |
| Bed-Paratill         | Rigid | 8R-30       | MFWD 225       | 22,600     | 150         | 12        | 0.102 | 1.38              | 2.12      | 0.83 | 0.67         | 5.01      | 1.44 | 4.22       | 10.68 |
| Bed-Paratill         | Rigid | 8R-38       | MFWD 225       | 22,600     | 150         | 12        | 0.080 | 1.09              | 1.68      | 0.65 | 0.52         | 3.96      | 1.14 | 3.33       | 8.44  |
| Bed-Paratill         | w/rol | 4R-30       | MFWD 225       | 17,900     | 150         | 12        | 0.204 | 2.76              | 4.25      | 1.32 | 1.34         | 9.68      | 2.29 | 8.44       | 20.41 |
| Bed-Paratill         | w/rol | 4R-38       | MFWD 225       | 17,900     | 150         | 12        | 0.160 | 2.17              | 3.35      | 1.03 | 1.05         | 7.62      | 1.80 | 6.64       | 16.07 |
| Bed-Paratill         | w/rol | 6R-38       | MFWD 225       | 25,200     | 150         | 12        | 0.107 | 1.45              | 2.24      | 0.97 | 0.70         | 5.37      | 1.69 | 4.44       | 11.52 |
| Bed-Rip/Disk         | Fold. | 8R-38       | MFWD 190       | 36,900     | 300         | 20        | 0.073 | 0.98              | 1.28      | 0.13 | 0.39         | 2.80      | 0.63 | 2.48       | 5.93  |
| Bed-Rip/Disk         | Fold. | 12R-30      | MFWD 225       | 56,600     | 300         | 20        | 0.061 | 0.83              | 1.28      | 0.17 | 0.40         | 2.69      | 0.82 | 2.54       | 6.06  |
| Bed-Rip/Disk         | Fold. | 12R-38      | MFWD 225       | 56,600     | 300         | 20        | 0.046 | 0.62              | 0.96      | 0.13 | 0.30         | 2.02      | 0.62 | 1.91       | 4.55  |
| Bed-Rip/Disk         | Rigid | 4R-30       | MFWD 190       | 17,300     | 300         | 20        | 0.184 | 2.49              | 3.25      | 0.15 | 0.99         | 6.91      | 0.75 | 6.29       | 13.96 |
| Bed-Rip/Disk         | Rigid | 4R-38       | MFWD 190       | 17,300     | 300         | 20        | 0.146 | 1.98              | 2.58      | 0.12 | 0.79         | 5.48      | 0.60 | 4.99       | 11.08 |
| Bed-Rip/Disk         | Rigid | 6R-38       | MFWD 190       | 23,900     | 300         | 20        | 0.097 | 1.31              | 1.71      | 0.11 | 0.52         | 3.66      | 0.55 | 3.31       | 7.53  |
| Bed-Rip/Disk         | Rigid | 8R-30       | MFWD 190       | 31,300     | 300         | 20        | 0.139 | 1.87              | 2.44      | 0.21 | 0.75         | 5.29      | 1.03 | 4.73       | 11.05 |
| Bed-Rip/Disk         | Rigid | 8R-38       | MFWD 190       | 31,300     | 300         | 20        | 0.073 | 0.98              | 1.28      | 0.11 | 0.39         | 2.78      | 0.54 | 2.48       | 5.81  |
| Bed-Rip/Disk         | Rigid | 6R-30       | MFWD 190       | 23,900     | 300         | 20        | 0.123 | 1.66              | 2.16      | 0.14 | 0.66         | 4.64      | 0.69 | 4.19       | 9.54  |
| Bed-Rip/Disk/Cond.   |       | 6-Row       | MFWD 225       | 24,600     | 150         | 12        | 0.107 | 1.45              | 2.24      | 0.95 | 0.70         | 5.35      | 1.65 | 4.44       | 11.45 |
| Bed-Rip/Disk/Cond.   |       | 8-Row       | MFWD 225       | 32,700     | 150         | 12        | 0.080 | 1.09              | 1.68      | 0.95 | 0.52         | 4.25      | 1.65 | 3.33       | 9.25  |
| Bed/Disk (Hipper)    |       | 4R-38       | MFWD 150       | 9,200      | 160         | 10        | 0.147 | 1.99              | 2.05      | 0.33 | 0.60         | 4.99      | 0.89 | 3.63       | 9.52  |
| Bed/Disk (Hipper)    |       | 6R-30       | MFWD 170       | 15,100     | 160         | 10        | 0.125 | 1.68              | 1.96      | 0.47 | 0.59         | 4.72      | 1.24 | 3.76       | 9.73  |
| Bed/Disk (Hipper)    |       | 6R-38       | MFWD 170       | 13,000     | 160         | 10        | 0.098 | 1.33              | 1.55      | 0.32 | 0.47         | 3.67      | 0.84 | 2.97       | 7.49  |
| Bed/Disk (Hipper)    |       | 8R-30       | MFWD 190       | 14,400     | 160         | 10        | 0.093 | 1.26              | 1.65      | 0.33 | 0.50         | 3.76      | 0.89 | 3.19       | 7.84  |
| Bed/Disk (Hipper)    |       | 8R-38 2x1   | MFWD 190       | 29,200     | 160         | 10        | 0.049 | 0.66              | 0.86      | 0.36 | 0.26         | 2.16      | 0.95 | 1.67       | 4.79  |
| Bed/Disk (Hipper)    |       | 12R-30      | MFWD 225       | 28,400     | 160         | 10        | 0.062 | 0.84              | 1.30      | 0.44 | 0.41         | 3.00      | 1.17 | 2.58       | 6.75  |
| Bed/Disk (Hipper)    |       | 12R-38      | MFWD 225       | 29,200     | 160         | 10        | 0.049 | 0.66              | 1.02      | 0.36 | 0.32         | 2.37      | 0.95 | 2.03       | 5.36  |
| Bed/Disk (Hipper)    |       | 16R40       | MFWD 300       | 47,000     | 160         | 10        | 0.035 | 0.47              | 0.98      | 0.41 | 0.30         | 2.17      | 1.09 | 1.89       | 5.16  |
| Bed/Disk (Hipper)Fl  |       | 8R-38       | MFWD 190       | 20,000     | 160         | 10        | 0.074 | 1.00              | 1.30      | 0.37 | 0.40         | 3.07      | 0.97 | 2.52       | 6.57  |
| Bed/Disk (Hipper)Rd  |       | 8R-38       | MFWD 190       | 15,600     | 160         | 10        | 0.074 | 1.00              | 1.30      | 0.28 | 0.40         | 2.99      | 0.76 | 2.52       | 6.28  |
| Bed/Disk w/roller    |       | 8R-30/40    | MFWD 190       | 26,600     | 160         | 10        | 0.093 | 1.26              | 1.65      | 0.62 | 0.50         | 4.04      | 1.64 | 3.19       | 8.88  |
| Bed/Disk w/roller    |       | 12R-30/40   | MFWD 225       | 44,300     | 160         | 10        | 0.062 | 0.84              | 1.30      | 0.69 | 0.41         | 3.24      | 1.82 | 2.58       | 7.66  |
| Bed/Disk w/roller    |       | 8R-38       | MFWD 190       | 26,600     | 160         | 10        | 0.074 | 1.00              | 1.30      | 0.49 | 0.40         | 3.19      | 1.30 | 2.52       | 7.02  |
| Bed/Lister           |       | 4R-38       | MFWD 150       | 18,200     | 160         | 8         | 0.228 | 3.08              | 3.17      | 0.97 | 0.93         | 8.16      | 3.06 | 5.62       | 16.86 |
| Bed/Lister           |       | 6R-38       | MFWD 150       | 19,100     | 160         | 8         | 0.120 | 1.62              | 1.67      | 0.53 | 0.49         | 4.32      | 1.69 | 2.96       | 8.97  |
| Bed/Lister           |       | 8R-30       | MFWD 190       | 23,100     | 160         | 8         | 0.114 | 1.54              | 2.01      | 0.61 | 0.61         | 4.78      | 1.94 | 3.88       | 10.62 |
| Bed/Lister           |       | 8R-38       | MFWD 190       | 23,400     | 160         | 8         | 0.090 | 1.21              | 1.58      | 0.49 | 0.48         | 3.79      | 1.55 | 3.07       | 8.42  |
| Bed/Lister           |       | 8R-38 2x1   | MFWD 190       | 46,700     | 160         | 8         | 0.060 | 0.81              | 1.05      | 0.65 | 0.32         | 2.85      | 2.07 | 2.04       | 6.96  |
| Bed/Lister           |       | 12R-38      | MFWD 225       | 46,700     | 160         | 8         | 0.060 | 0.81              | 1.25      | 0.65 | 0.39         | 3.11      | 2.07 | 2.48       | 7.67  |
| Bed/Lister           |       | 16R-30      | MFWD 225       | 58,100     | 160         | 8         | 0.035 | 0.47              | 0.73      | 0.47 | 0.23         | 1.91      | 1.50 | 1.45       | 4.87  |
| Bed/Lister           |       | 16R40       | MFWD 300       | 60,900     | 160         | 8         | 0.043 | 0.58              | 1.19      | 0.61 | 0.36         | 2.76      | 1.93 | 2.30       | 7.00  |
| Bed/Lister-Roll-Fold |       | 8R-38       | MFWD 190       | 24,300     | 160         | 10        | 0.074 | 1.00              | 1.30      | 0.45 | 0.40         | 3.15      | 1.18 | 2.52       | 6.86  |
| Bed/Lister-Roll-Fold |       | 12R-30      | MFWD 225       | 29,200     | 160         | 10        | 0.062 | 0.84              | 1.30      | 0.45 | 0.41         | 3.01      | 1.20 | 2.58       | 6.80  |
| Bed/Lister-Roll-Fold |       | 12R-38      | MFWD 225       | 33,700     | 160         | 10        | 0.049 | 0.66              | 1.02      | 0.41 | 0.32         | 2.43      | 1.09 | 2.03       | 5.57  |
| Bed/Lister-Roll-Fold |       | 16R-30      | MFWD 225       | 34,800     | 160         | 10        | 0.046 | 0.63              | 0.97      | 0.40 | 0.30         | 2.32      | 1.07 | 1.93       | 5.34  |
| Bed/Lister-Roll-Rig. |       | 8R-38       | MFWD 190       | 20,300     | 160         | 10        | 0.074 | 1.00              | 1.30      | 0.37 | 0.40         | 3.08      | 0.99 | 2.52       | 6.59  |
| Blade-Box            |       | 6'-7'       | MFWD 105       | 1,180      | 200         | 20        | 0.020 | 0.27              | 0.19      | 0.01 | 0.04         | 0.51      | 0.00 | 0.25       | 0.78  |
| Blade-Box            |       | 8'-10'      | MFWD 105       | 3,700      | 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       | 1,190      | 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       | 3,550      | 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 | 3.48              | 4.53      | 1.96 | 1.39         | 11.37     | 3.99 | 8.77       | 24.15 |
| Boll Buggy           |       | 4R-38 (350) | MFWD 190       | 30,500     | 200         | 10        | 0.257 | 3.48              | 4.53      | 1.96 | 1.39         | 11.37     | 3.99 | 8.77       | 24.15 |
| Boll Buggy           |       | 4R2x1 (350) | MFWD 190       | 30,500     | 200         | 10        | 0.172 | 2.32              | 3.03      | 1.31 | 0.93         | 7.60      | 2.67 | 5.86       | 16.14 |
| Boll Buggy           |       | 6R-30 (355) | MFWD 190       | 30,500     | 200         | 10        | 0.218 | 2.94              | 3.84      | 1.66 | 1.17         | 9.63      | 3.38 | 7.42       | 20.44 |
| Boll Buggy           |       | 6R-38 (355) | MFWD 190       | 30,500     | 200         | 10        | 0.172 | 2.32              | 3.03      | 1.31 | 0.93         | 7.60      | 2.67 | 5.86       | 16.14 |
| Chisel Plow-Folding  |       | 24'         | MFWD 190       | 39,300     | 150         | 12        | 0.076 | 1.03              | 1.34      | 1.08 | 0.41         | 3.87      | 1.88 | 2.60       | 8.36  |
| Chisel Plow-Folding  |       | 32'         | MFWD 225       | 51,000     | 150         | 12        | 0.057 | 0.78              | 1.20      | 1.06 | 0.37         | 3.42      | 1.84 | 2.38       | 7.66  |
| Chisel Plow-Folding  |       | 42'         | MFWD 225       | 61,600     | 150         | 12        | 0.044 | 0.59              | 0.91      | 0.97 | 0.28         | 2.78      | 1.69 | 1.81       | 6.29  |
| Chisel Plow-Folding  |       | 50'         | MFWD 225       | 80,300     | 150         | 10        | 0.036 | 0.49              | 0.77      | 1.28 | 0.24         | 2.79      | 2.09 | 1.52       | 6.41  |
| Chisel Plow-Folding  |       | 61'         | MFWD 225       | 90,200     | 150         | 12        | 0.030 | 0.40              | 0.63      | 0.98 | 0.19         | 2.22      | 1.71 | 1.25       | 5.19  |
| Chisel Plow-Rigid    |       | 10'         | MFWD 170       | 6,600      | 150         | 12        | 0.184 | 2.49              | 2.91      | 0.44 | 0.88         | 6.73      | 0.76 | 5.56       | 13.06 |
| Chisel Plow-Rigid    |       | 15'         | 2WD 130        | 11,600     | 150         | 12        | 0.123 | 1.66              | 1.48      | 0.51 | 0.39         | 4.06      | 0.89 | 2.38       | 7.34  |
| Chisel Plow-Rigid    |       | 20'         | MFWD 225       | 11,200     | 150         | 12        | 0.102 | 1.38              | 2.14      | 0.41 | 0.67         | 4.61      | 0.72 | 4.24       | 9.58  |
| Chisel Plow-Rigid    |       | 24'         | MFWD 190       | 11,700     | 150         | 12        | 0.077 | 1.04              | 1.35      | 0.32 | 0.41         | 3.13      | 0.56 | 2.62       | 6.32  |
| Cultivate            |       | 4R-30       | 2WD 105        | 12,100     | 150         | 10        | 0.206 | 2.78              | 2.00      | 0.66 | 0.42         | 5.88      | 1.75 | 2.57       | 10.21 |
| Cultivate            |       | 4R-38       | 2WD 105        | 12,200     | 150         | 10        | 0.162 | 2.19              | 1.57      | 0.52 | 0.30         | 4.60      | 1.39 | 1.84       | 7.84  |
| Cultivate            |       | 6R-30       | MFWD 150       | 16,300     | 150         | 10        | 0.137 | 1.85              | 1.91      | 0.59 | 0.56         | 4.92      | 1.57 | 3.38       | 9.89  |
| Cultivate            |       | 6R-38       | MFWD 150       | 17,200     | 150         | 10        | 0.108 | 1.46              | 1.50      | 0.49 | 0.44         | 3.91      | 1.31 | 2.67       | 7.90  |
| Cultivate            |       | 8R-30       | MFWD 190       | 20,600     | 150         | 10        | 0.103 | 1.39              | 1.81      | 0.56 | 0.55         | 4.33      | 1.49 | 3.51       | 9.34  |
| Cultivate            |       | 8R-38       | MFWD 190       | 21,600     | 150         | 10        | 0.073 | 0.99              | 1.29      | 0.42 | 0.39         | 3.11      | 1.12 | 2.50       | 6.74  |
| Cultivate            |       | 8R-38 2x1   | MFWD 190       | 37,500     | 150         | 10        | 0.054 | 0.73              | 0.95      | 0.54 | 0.29         | 2.52      | 1.43 | 1.84       | 5.80  |

(continued)

Appendix Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (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            | 12R-30    | MFWD 225   | 36,200         | 150        | 10          | 0.068     | 0.92              | 1.43 | 0.66      | 0.45 | 3.47         | 1.75      | 2.84 | 8.07       |
| Cultivate            | 12R-38    | MFWD 225   | 37,500         | 150        | 10          | 0.054     | 0.73              | 1.13 | 0.54      | 0.35 | 2.76         | 1.43      | 2.24 | 6.44       |
| Cultivate            | 16R-30    | MFWD 225   | 47,800         | 150        | 10          | 0.051     | 0.69              | 1.07 | 0.65      | 0.33 | 2.76         | 1.73      | 2.13 | 6.63       |
| Cultivate & Post     | 4R-30     | 2WD 105    | 17,500         | 150        | 10          | 0.220     | 3.96              | 2.14 | 1.02      | 0.41 | 7.55         | 2.71      | 2.49 | 12.75      |
| Cultivate & Post     | 4R-38     | 2WD 105    | 17,600         | 150        | 10          | 0.173     | 3.12              | 1.68 | 0.81      | 0.32 | 5.94         | 2.14      | 1.96 | 10.06      |
| Cultivate & Post     | 6R-30     | MFWD 150   | 21,700         | 150        | 10          | 0.146     | 2.64              | 2.03 | 0.84      | 0.60 | 6.13         | 2.24      | 3.61 | 11.98      |
| Cultivate & Post     | 6R-38     | MFWD 150   | 22,600         | 150        | 10          | 0.115     | 2.08              | 1.60 | 0.69      | 0.47 | 4.86         | 1.84      | 2.85 | 9.56       |
| Cultivate & Post     | 8R-30     | MFWD 190   | 26,000         | 150        | 10          | 0.110     | 1.98              | 1.93 | 0.76      | 0.59 | 5.27         | 2.01      | 3.74 | 11.03      |
| Cultivate & Post     | 8R-38     | MFWD 190   | 27,000         | 150        | 10          | 0.086     | 1.56              | 1.53 | 0.62      | 0.47 | 4.19         | 1.65      | 2.96 | 8.80       |
| Cultivate & Post     | 8R-38 2x1 | MFWD 190   | 44,500         | 150        | 10          | 0.057     | 1.04              | 1.01 | 0.68      | 0.31 | 3.06         | 1.81      | 1.97 | 6.84       |
| Cultivate & Post     | 10R-30    | MFWD 225   | 32,000         | 150        | 10          | 0.088     | 1.58              | 1.83 | 0.75      | 0.57 | 4.75         | 1.98      | 3.63 | 10.37      |
| Cultivate & Post     | 12R-30    | MFWD 225   | 41,500         | 150        | 10          | 0.073     | 1.32              | 1.52 | 0.81      | 0.48 | 4.14         | 2.14      | 3.03 | 9.31       |
| Cultivate & Post     | 12R-38    | MFWD 225   | 44,500         | 150        | 10          | 0.057     | 1.04              | 1.20 | 0.68      | 0.37 | 3.31         | 1.81      | 2.39 | 7.52       |
| Cultivate & Post     | 16R-30    | MFWD 225   | 54,900         | 150        | 10          | 0.055     | 0.99              | 1.14 | 0.80      | 0.36 | 3.30         | 2.12      | 2.27 | 7.70       |
| Disk & Incorporate   | 14'       | 2WD 130    | 30,100         | 200        | 10          | 0.149     | 2.69              | 1.80 | 1.35      | 0.48 | 6.33         | 2.37      | 2.89 | 11.61      |
| Disk & Incorporate   | 20'       | MFWD 190   | 44,500         | 180        | 10          | 0.092     | 1.24              | 1.62 | 1.37      | 0.49 | 4.74         | 2.41      | 3.14 | 10.30      |
| Disk & Incorporate   | 24'       | MFWD 190   | 46,900         | 200        | 10          | 0.087     | 1.57              | 1.53 | 1.22      | 0.47 | 4.81         | 2.16      | 2.97 | 9.94       |
| Disk & Incorporate   | 28'       | MFWD 225   | 55,500         | 200        | 10          | 0.074     | 1.34              | 1.55 | 1.24      | 0.49 | 4.64         | 2.19      | 3.09 | 9.93       |
| Disk & Incorporate   | 32'       | MFWD 225   | 61,000         | 200        | 10          | 0.065     | 1.18              | 1.36 | 1.19      | 0.42 | 4.17         | 2.11      | 2.70 | 8.99       |
| Disk Harrow          | 14'       | 2WD 130    | 24,800         | 180        | 10          | 0.140     | 1.89              | 1.68 | 0.96      | 0.45 | 5.00         | 2.04      | 2.71 | 9.76       |
| Disk Harrow          | 20'       | MFWD 190   | 39,200         | 180        | 10          | 0.098     | 1.32              | 1.72 | 1.06      | 0.53 | 4.65         | 2.25      | 3.34 | 10.25      |
| Disk Harrow          | 24'       | MFWD 190   | 41,500         | 180        | 10          | 0.081     | 1.10              | 1.44 | 0.94      | 0.44 | 3.93         | 1.99      | 2.78 | 8.71       |
| Disk Harrow          | 28'       | MFWD 225   | 50,100         | 180        | 10          | 0.070     | 0.94              | 1.46 | 0.97      | 0.46 | 3.84         | 2.06      | 2.89 | 8.80       |
| Disk Harrow          | 32'       | MFWD 225   | 55,700         | 180        | 10          | 0.061     | 0.82              | 1.27 | 0.94      | 0.40 | 3.46         | 2.00      | 2.53 | 8.00       |
| Disk Harrow          | 42'       | MFWD 225   | 96,300         | 180        | 10          | 0.046     | 0.63              | 0.97 | 1.25      | 0.30 | 3.16         | 2.64      | 1.93 | 7.74       |
| Disk Harrow 40-100hp | 14'       | 2WD 75     | 14,900         | 180        | 10          | 0.140     | 1.89              | 0.97 | 0.58      | 0.14 | 3.59         | 1.22      | 0.87 | 5.69       |
| Disk Heavy           | 14'       | MFWD 150   | 24,800         | 180        | 10          | 0.145     | 1.97              | 2.02 | 1.00      | 0.59 | 5.60         | 2.12      | 3.59 | 11.32      |
| Disk Heavy           | 20'       | MFWD 170   | 39,200         | 180        | 10          | 0.097     | 1.31              | 1.53 | 1.05      | 0.46 | 4.37         | 2.23      | 2.92 | 9.54       |
| Disk Heavy           | 28'       | MFWD 190   | 50,100         | 180        | 10          | 0.075     | 1.02              | 1.33 | 1.05      | 0.40 | 3.81         | 2.22      | 2.57 | 8.61       |
| Disk Ripper          | 15'       | MFWD 225   | 45,200         | 180        | 10          | 0.136     | 1.84              | 2.83 | 1.71      | 0.89 | 7.28         | 3.61      | 5.62 | 16.52      |
| Ditcher              |           | 2WD 130    | 5,700          | 200        | 10          | 0.020     | 0.27              | 0.24 | 0.04      | 0.06 | 0.62         | 0.06      | 0.38 | 1.06       |
| Ditcher (1m/160a)    |           | 2WD 130    | 5,700          | 200        | 10          | 0.009     | 0.12              | 0.11 | 0.02      | 0.03 | 0.29         | 0.02      | 0.18 | 0.50       |
| Fert Appl (Liquid)   | 4R-38     | MFWD 150   | 12,900         | 150        | 8           | 0.154     | 2.79              | 2.14 | 1.33      | 0.63 | 6.90         | 1.50      | 3.81 | 12.21      |
| Fert Appl (Liquid)   | 6R-30     | MFWD 170   | 16,300         | 150        | 8           | 0.130     | 2.36              | 2.06 | 1.42      | 0.62 | 6.47         | 1.60      | 3.94 | 12.02      |
| Fert Appl (Liquid)   | 6R-38     | MFWD 170   | 15,600         | 150        | 8           | 0.103     | 1.86              | 1.62 | 1.07      | 0.49 | 5.06         | 1.21      | 3.11 | 9.38       |
| Fert Appl (Liquid)   | 8R-30     | MFWD 190   | 16,300         | 150        | 8           | 0.098     | 1.77              | 1.72 | 1.06      | 0.53 | 5.09         | 1.20      | 3.34 | 9.64       |
| Fert Appl (Liquid)   | 8R-38     | MFWD 190   | 18,400         | 150        | 8           | 0.077     | 1.40              | 1.36 | 0.95      | 0.41 | 4.13         | 1.07      | 2.64 | 7.85       |
| Fert Appl (Liquid)   | 8R-38 2x1 | MFWD 190   | 19,700         | 150        | 8           | 0.051     | 0.93              | 0.90 | 0.67      | 0.27 | 2.80         | 0.76      | 1.75 | 5.32       |
| Fert Appl (Liquid)   | 12R-30    | MFWD 225   | 20,000         | 150        | 8           | 0.078     | 1.41              | 1.63 | 1.04      | 0.51 | 4.61         | 1.18      | 3.24 | 9.04       |
| Fert Appl (Liquid)   | 12R-38    | MFWD 225   | 19,000         | 150        | 8           | 0.051     | 0.93              | 1.07 | 0.65      | 0.33 | 3.00         | 0.73      | 2.13 | 5.87       |
| Field Cult & Inc     | 42'       | MFWD 225   | 59,700         | 100        | 10          | 0.037     | 0.68              | 0.78 | 0.56      | 0.24 | 2.28         | 2.38      | 1.56 | 6.22       |
| Field Cult & Inc     | 50'       | MFWD 225   | 72,000         | 100        | 10          | 0.031     | 0.57              | 0.66 | 0.57      | 0.20 | 2.01         | 2.41      | 1.31 | 5.73       |
| Field Cult & Inc Fld | 24'       | MFWD 170   | 34,500         | 100        | 10          | 0.066     | 1.19              | 1.04 | 0.57      | 0.31 | 3.12         | 2.40      | 1.99 | 7.52       |
| Field Cult & Inc Fld | 32'       | MFWD 190   | 43,800         | 100        | 10          | 0.049     | 0.89              | 0.87 | 0.54      | 0.26 | 2.57         | 2.29      | 1.68 | 6.56       |
| Field Cult & Inc Rdg | 12'       | 2WD 150    | 15,800         | 100        | 10          | 0.132     | 2.38              | 1.83 | 0.52      | 0.44 | 5.19         | 2.20      | 2.68 | 10.08      |
| Field Cultivate Fld  | 24'       | MFWD 170   | 29,100         | 100        | 10          | 0.062     | 0.84              | 0.98 | 0.45      | 0.29 | 2.57         | 1.91      | 1.87 | 6.35       |
| Field Cultivate Fld  | 32'       | MFWD 190   | 38,500         | 100        | 10          | 0.046     | 0.63              | 0.82 | 0.44      | 0.25 | 2.15         | 1.89      | 1.58 | 5.63       |
| Field Cultivate Fld  | 42'       | MFWD 225   | 52,600         | 100        | 10          | 0.035     | 0.48              | 0.74 | 0.46      | 0.23 | 1.92         | 1.97      | 1.46 | 5.36       |
| Field Cultivate Fld  | 50'       | MFWD 225   | 62,100         | 100        | 10          | 0.029     | 0.40              | 0.62 | 0.46      | 0.19 | 1.68         | 1.95      | 1.23 | 4.87       |
| Field Cultivate Rdg  | 12'       | 2WD 150    | 10,400         | 100        | 10          | 0.124     | 1.68              | 1.72 | 0.32      | 0.41 | 4.15         | 1.36      | 2.52 | 8.04       |
| Grain Cart Corn      | 500 bu    | MFWD 190   | 24,000         | 200        | 12          | 0.025     | 0.34              | 0.44 | 0.16      | 0.13 | 1.08         | 0.28      | 0.86 | 2.23       |
| Grain Cart Corn      | 700 bu    | MFWD 190   | 36,700         | 200        | 12          | 0.025     | 0.34              | 0.44 | 0.25      | 0.13 | 1.17         | 0.43      | 0.86 | 2.47       |
| Grain Cart Corn      | 1000 bu   | MFWD 225   | 45,700         | 200        | 12          | 0.025     | 0.34              | 0.52 | 0.31      | 0.16 | 1.34         | 0.54      | 1.04 | 2.93       |
| Grain Cart Rice      | 500 bu    | MFWD 190   | 24,000         | 200        | 12          | 0.062     | 0.84              | 1.10 | 0.40      | 0.33 | 2.68         | 0.70      | 2.12 | 5.52       |
| Grain Cart Rice      | 700 bu    | MFWD 190   | 36,700         | 200        | 12          | 0.055     | 0.74              | 0.96 | 0.54      | 0.29 | 2.55         | 0.94      | 1.87 | 5.37       |
| Grain Cart Rice      | 1000 bu   | MFWD 190   | 45,700         | 200        | 12          | 0.045     | 0.61              | 0.80 | 0.56      | 0.24 | 2.24         | 0.98      | 1.56 | 4.78       |
| Grain Cart Soybean   | 500 bu    | MFWD 190   | 24,000         | 200        | 12          | 0.025     | 0.34              | 0.44 | 0.16      | 0.13 | 1.09         | 0.28      | 0.86 | 2.25       |
| Grain Cart Soybean   | 700 bu    | MFWD 190   | 36,700         | 200        | 12          | 0.021     | 0.28              | 0.37 | 0.21      | 0.11 | 0.98         | 0.36      | 0.72 | 2.07       |
| Grain Cart Soybean   | 1000 bu   | MFWD 190   | 45,700         | 200        | 12          | 0.021     | 0.28              | 0.37 | 0.26      | 0.11 | 1.03         | 0.45      | 0.72 | 2.21       |
| Grain Cart Wht/Sor   | 500 bu    | MFWD 190   | 24,000         | 200        | 12          | 0.025     | 0.34              | 0.44 | 0.16      | 0.13 | 1.09         | 0.28      | 0.86 | 2.25       |
| Grain Cart Wht/Sor   | 700 bu    | MFWD 190   | 36,700         | 200        | 12          | 0.021     | 0.28              | 0.37 | 0.21      | 0.11 | 0.98         | 0.36      | 0.72 | 2.07       |
| Grain Cart Wht/Sor   | 1000 bu   | MFWD 190   | 45,700         | 200        | 12          | 0.021     | 0.28              | 0.37 | 0.26      | 0.11 | 1.03         | 0.45      | 0.72 | 2.21       |
| Grain Drill          | 10'       | 2WD 130    | 26,700         | 150        | 8           | 0.188     | 4.25              | 2.27 | 1.88      | 0.60 | 9.02         | 3.61      | 3.65 | 16.28      |
| Grain Drill          | 12'       | 2WD 130    | 25,200         | 150        | 8           | 0.157     | 3.54              | 1.89 | 1.48      | 0.50 | 7.43         | 2.84      | 3.04 | 13.31      |
| Grain Drill          | 15'       | MFWD 150   | 31,800         | 150        | 8           | 0.125     | 2.83              | 1.74 | 1.49      | 0.51 | 6.59         | 2.86      | 3.09 | 12.56      |
| Grain Drill          | 20'       | MFWD 170   | 37,300         | 150        | 8           | 0.094     | 2.12              | 1.48 | 1.31      | 0.45 | 5.38         | 2.52      | 2.83 | 10.74      |
| Grain Drill          | 24'       | MFWD 190   | 63,000         | 150        | 8           | 0.078     | 1.77              | 1.38 | 1.85      | 0.42 | 5.43         | 3.55      | 2.67 | 11.66      |
| Grain Drill          | 30'       | MFWD 225   | 59,500         | 150        | 8           | 0.062     | 1.41              | 1.31 | 1.40      | 0.41 | 4.54         | 2.68      | 2.59 | 9.82       |
| Grain Drill          | 35'       | MFWD 225   | 90,600         | 150        | 8           | 0.053     | 1.21              | 1.12 | 1.83      | 0.35 | 4.52         | 3.50      | 2.22 | 10.25      |
| Grain Drill & Pre    | 10'       | 2WD 130    | 32,000         | 150        | 8           | 0.203     | 4.58              | 2.44 | 2.43      | 0.65 | 10.12        | 4.66      | 3.93 | 18.71      |
| Grain Drill & Pre    | 12'       | 2WD 130    | 30,600         | 150        | 8           | 0.169     | 3.81              | 2.03 | 1.94      | 0.54 | 8.34         | 3.71      | 3.27 | 15.33      |
| Grain Drill & Pre    | 15'       | MFWD 150   | 37,200         | 150        | 8           | 0.135     | 3.05              | 1.88 | 1.88      | 0.55 | 7.37         | 3.61      | 3.33 | 14.32      |
| Grain Drill & Pre    | 20'       | MFWD 170   | 42,700         | 150        | 8           | 0.101     | 2.29              | 1.59 | 1.62      | 0.48 | 6.00         | 3.11      | 3.05 | 12.16      |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (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----- |      |           |      |              |           |       |            |
| Grain Drill & Pre    | 24'        | MFWD 190   | 68,400         | 150        | 8           | 0.084     | 1.90              | 1.48 | 2.17      | 0.45 | 6.02         | 4.15      | 2.88  | 13.06      |
| Grain Drill & Pre    | 30'        | MFWD 225   | 64,800         | 150        | 8           | 0.067     | 1.52              | 1.41 | 1.64      | 0.44 | 5.02         | 3.14      | 2.79  | 10.97      |
| Grain Drill & Pre    | 35'        | MFWD 225   | 96,000         | 150        | 8           | 0.058     | 1.30              | 1.20 | 2.08      | 0.38 | 4.98         | 3.99      | 2.39  | 11.38      |
| Grain Drill & Pre T  | 8R-38      | MFWD 225   | 49,600         | 150        | 8           | 0.062     | 1.41              | 1.31 | 1.16      | 0.41 | 4.31         | 2.23      | 2.59  | 9.14       |
| Harrow - Rigid       | 21'        | 2WD 150    | 6,750          | 200        | 10          | 0.073     | 0.99              | 1.02 | 0.17      | 0.24 | 2.45         | 0.26      | 1.50  | 4.21       |
| Harrow - Folding     | 24'        | MFWD 190   | 12,800         | 200        | 10          | 0.064     | 0.87              | 1.13 | 0.28      | 0.34 | 2.65         | 0.43      | 2.20  | 5.29       |
| Harrow - Folding     | 30'        | MFWD 190   | 15,400         | 200        | 10          | 0.051     | 0.69              | 0.91 | 0.27      | 0.27 | 2.16         | 0.42      | 1.76  | 4.35       |
| Harrow - Folding     | 40'        | MFWD 190   | 19,200         | 200        | 10          | 0.038     | 0.52              | 0.68 | 0.26      | 0.20 | 1.67         | 0.39      | 1.32  | 3.39       |
| Harrow - Folding     | 48'        | MFWD 225   | 23,000         | 200        | 10          | 0.032     | 0.43              | 0.67 | 0.26      | 0.21 | 1.58         | 0.39      | 1.33  | 3.31       |
| Harrow - Rigid       | 13'        | 2WD 130    | 4,950          | 200        | 10          | 0.119     | 1.61              | 1.43 | 0.20      | 0.38 | 3.64         | 0.31      | 2.31  | 6.27       |
| Header - Corn        | 6R-30      | 265 hp     | 47,300         | 300        | 8           | 0.170     | 2.30              | 4.18 | 2.01      | 5.81 | 14.31        | 3.02      | 22.95 | 40.29      |
| Header - Corn        | 6R-38      | 265 hp     | 47,700         | 300        | 8           | 0.134     | 1.81              | 3.30 | 1.60      | 4.59 | 11.31        | 2.41      | 18.12 | 31.84      |
| Header - Corn        | 8R-30      | 265 hp     | 61,500         | 300        | 8           | 0.127     | 1.72              | 3.13 | 1.96      | 4.36 | 11.18        | 2.95      | 17.21 | 31.35      |
| Header - Corn        | 8R-38      | 325 hp     | 62,100         | 300        | 8           | 0.100     | 1.36              | 3.04 | 1.56      | 3.73 | 9.70         | 2.35      | 14.73 | 26.79      |
| Header - Corn        | 12R-20     | 325 hp     | 94,400         | 300        | 8           | 0.127     | 1.72              | 3.84 | 3.01      | 4.72 | 13.30        | 4.53      | 18.63 | 36.47      |
| Header - Corn        | 12R-30     | 325 hp     | 96,300         | 300        | 8           | 0.085     | 1.15              | 2.56 | 2.04      | 3.14 | 8.91         | 3.08      | 12.42 | 24.41      |
| Header - Draper (CL) | 25' Rigid  | 265 hp     | 58,800         | 300        | 8           | 0.203     | 2.74              | 4.98 | 2.73      | 6.93 | 17.40        | 4.28      | 27.37 | 49.06      |
| Header - Draper (CL) | 30' Rigid  | 325 hp     | 67,900         | 300        | 8           | 0.169     | 2.28              | 5.09 | 2.63      | 6.25 | 16.27        | 4.12      | 24.69 | 45.08      |
| Header - Draper (CL) | 36' Rigid  | 355 hp     | 72,000         | 300        | 8           | 0.141     | 1.90              | 4.63 | 2.32      | 5.20 | 14.07        | 3.64      | 20.51 | 38.23      |
| Header - Draper (CL) | 40' Rigid  | 425 hp     | 76,300         | 30         | 8           | 0.126     | 1.71              | 4.99 | 22.19     | 5.46 | 34.36        | 34.73     | 21.54 | 90.64      |
| Header - Draper (SL) | 25' Rigid  | 325 hp     | 58,800         | 300        | 8           | 0.176     | 2.37              | 5.30 | 2.37      | 6.50 | 16.55        | 3.71      | 25.68 | 45.94      |
| Header - Draper (SL) | 30' Rigid  | 325 hp     | 67,900         | 300        | 8           | 0.146     | 1.98              | 4.41 | 2.28      | 5.42 | 14.10        | 3.57      | 21.40 | 39.07      |
| Header - Draper (SL) | 36' Rigid  | 355 hp     | 72,000         | 300        | 8           | 0.122     | 1.65              | 4.01 | 2.01      | 4.50 | 12.19        | 3.15      | 17.78 | 33.13      |
| Header - Drapper     | 40' Rigid  | 425 hp     | 76,300         | 30         | 8           | 0.110     | 1.48              | 4.33 | 19.23     | 4.73 | 29.78        | 30.10     | 18.67 | 78.55      |
| Header - Rice (CL)   | 25' Rigid  | 325 hp     | 64,400         | 300        | 8           | 0.253     | 3.42              | 7.64 | 4.08      | 9.38 | 24.54        | 6.14      | 37.03 | 67.73      |
| Header - Rice (CL)   | 30' Rigid  | 325 hp     | 74,100         | 300        | 8           | 0.211     | 2.85              | 6.37 | 3.91      | 7.82 | 20.96        | 5.89      | 30.86 | 57.73      |
| Header - Rice (SL)   | 25' Rigid  | 325 hp     | 64,400         | 300        | 8           | 0.220     | 2.97              | 6.62 | 3.54      | 8.13 | 21.27        | 5.32      | 32.10 | 58.70      |
| Header - Rice (SL)   | 30' Rigid  | 325 hp     | 74,100         | 300        | 8           | 0.183     | 2.47              | 5.52 | 3.39      | 6.77 | 18.17        | 5.10      | 26.74 | 50.03      |
| Header -RiceStrp(CL) | 20'        | 265 hp     | 49,100         | 300        | 8           | 0.253     | 3.42              | 6.23 | 3.11      | 8.67 | 21.45        | 4.68      | 34.22 | 60.36      |
| Header -RiceStrp(CL) | 24'        | 325 hp     | 54,500         | 300        | 8           | 0.211     | 2.85              | 6.37 | 2.88      | 7.82 | 19.93        | 4.33      | 30.86 | 55.13      |
| Header -RiceStrp(CL) | 32'        | 325 hp     | 59,900         | 300        | 8           | 0.158     | 2.14              | 4.77 | 2.37      | 5.86 | 15.16        | 3.57      | 23.14 | 41.88      |
| Header -RiceStrp(SL) | 20'        | 265 hp     | 49,100         | 300        | 8           | 0.220     | 2.97              | 5.40 | 2.70      | 7.51 | 18.59        | 4.06      | 29.65 | 52.31      |
| Header -RiceStrp(SL) | 24'        | 325 hp     | 54,500         | 300        | 8           | 0.183     | 2.47              | 5.52 | 2.49      | 6.77 | 17.27        | 3.75      | 26.74 | 47.78      |
| Header -RiceStrp(SL) | 32'        | 325 hp     | 59,900         | 300        | 8           | 0.137     | 1.85              | 4.14 | 2.05      | 5.08 | 13.14        | 3.09      | 20.06 | 36.30      |
| Header -Soybean      | 22' Flex   | 265 hp     | 32,400         | 300        | 8           | 0.116     | 1.56              | 2.85 | 0.94      | 3.96 | 9.32         | 1.41      | 15.65 | 26.39      |
| Header -Soybean      | 25' Flex   | 325 hp     | 34,600         | 300        | 8           | 0.102     | 1.38              | 3.07 | 0.88      | 3.77 | 9.11         | 1.32      | 14.90 | 25.35      |
| Header -Soybean      | 30' Flex   | 325 hp     | 41,400         | 300        | 8           | 0.085     | 1.15              | 2.56 | 0.88      | 3.14 | 7.74         | 1.32      | 12.42 | 21.49      |
| Header -Soybean      | 35' Flex   | 355 hp     | 46,700         | 300        | 8           | 0.072     | 0.98              | 2.40 | 0.85      | 2.69 | 6.92         | 1.28      | 10.61 | 18.82      |
| Header Wheat/Sorghum | 22' Rigid  | 265 hp     | 19,800         | 300        | 8           | 0.116     | 1.56              | 2.85 | 0.57      | 3.96 | 8.96         | 0.86      | 15.65 | 25.47      |
| Header Wheat/Sorghum | 25' Rigid  | 325 hp     | 20,500         | 300        | 8           | 0.102     | 1.38              | 3.07 | 0.52      | 3.77 | 8.75         | 0.78      | 14.90 | 24.45      |
| Header Wheat/Sorghum | 30' Rigid  | 325 hp     | 23,600         | 300        | 8           | 0.085     | 1.15              | 2.56 | 0.50      | 3.14 | 7.36         | 0.75      | 12.42 | 20.54      |
| Land Plane           | 50'x16'    | MFWD 190   | 14,300         | 200        | 10          | 0.151     | 2.04              | 2.66 | 0.43      | 0.81 | 5.97         | 1.14      | 5.16  | 12.28      |
| Levee Pull & Seed    | 8 Blade    | MFWD 170   | 10,400         | 100        | 10          | 0.003     | 0.04              | 0.05 | 0.00      | 0.01 | 0.12         | 0.03      | 0.10  | 0.27       |
| Levee Pull (1m/80a)  | 8 blade    | MFWD 170   | 7,180          | 100        | 10          | 0.003     | 0.04              | 0.05 | 0.00      | 0.01 | 0.12         | 0.02      | 0.10  | 0.26       |
| Levee Splitter (1/80 | 32"        | MFWD 150   | 7,180          | 100        | 10          | 0.004     | 0.05              | 0.05 | 0.00      | 0.01 | 0.13         | 0.03      | 0.10  | 0.27       |
| Module Builder       | 4R-38(250) | MFWD 190   | 34,700         | 200        | 10          | 0.257     | 5.81              | 4.53 | 2.23      | 1.39 | 13.98        | 4.54      | 8.77  | 27.30      |
| Module Builder       | 4R-38(350) | MFWD 190   | 34,700         | 200        | 10          | 0.257     | 5.81              | 4.53 | 2.23      | 1.39 | 13.98        | 4.54      | 8.77  | 27.30      |
| Module Builder       | 4R2x1(350) | MFWD 190   | 34,700         | 200        | 10          | 0.172     | 3.88              | 3.03 | 1.49      | 0.93 | 9.34         | 3.03      | 5.86  | 18.25      |
| Module Builder       | 6R-30(355) | MFWD 190   | 34,700         | 200        | 10          | 0.218     | 4.92              | 3.84 | 1.89      | 1.17 | 11.84        | 3.85      | 7.42  | 23.12      |
| Module Builder       | 6R-38(355) | MFWD 190   | 34,700         | 200        | 10          | 0.172     | 3.88              | 3.03 | 1.49      | 0.93 | 9.34         | 3.03      | 5.86  | 18.25      |
| NT Grain Drill       | 10'        | 2WD 130    | 35,100         | 150        | 8           | 0.235     | 5.31              | 2.83 | 3.10      | 0.75 | 12.02        | 5.93      | 4.56  | 22.52      |
| NT Grain Drill       | 12'        | 2WD 130    | 42,200         | 150        | 8           | 0.163     | 3.69              | 1.97 | 2.59      | 0.52 | 8.78         | 4.95      | 3.17  | 16.90      |
| NT Grain Drill       | 15'        | MFWD 150   | 49,200         | 150        | 8           | 0.130     | 2.95              | 1.81 | 2.41      | 0.53 | 7.72         | 4.62      | 3.22  | 15.57      |
| NT Grain Drill       | 20'        | MFWD 170   | 66,300         | 150        | 8           | 0.098     | 2.21              | 1.54 | 2.44      | 0.46 | 6.67         | 4.67      | 2.95  | 14.30      |
| NT Grain Drill       | 24'        | MFWD 190   | 75,600         | 150        | 8           | 0.081     | 1.84              | 1.44 | 2.32      | 0.44 | 6.05         | 4.43      | 2.78  | 13.27      |
| NT Grain Drill       | 30'        | MFWD 225   | 89,000         | 150        | 8           | 0.065     | 1.47              | 1.36 | 2.18      | 0.42 | 5.45         | 4.18      | 2.70  | 12.34      |
| NT Grain Drill & Pre | 10'        | 2WD 130    | 40,400         | 150        | 8           | 0.211     | 4.77              | 2.54 | 3.20      | 0.68 | 11.20        | 6.13      | 4.09  | 21.43      |
| NT Grain Drill & Pre | 12'        | 2WD 130    | 47,500         | 150        | 8           | 0.176     | 3.97              | 2.12 | 3.13      | 0.56 | 9.80         | 6.00      | 3.41  | 19.23      |
| NT Grain Drill & Pre | 15'        | MFWD 150   | 54,600         | 150        | 8           | 0.141     | 3.18              | 1.95 | 2.88      | 0.57 | 8.60         | 5.52      | 3.47  | 17.60      |
| NT Grain Drill & Pre | 20'        | MFWD 170   | 71,600         | 150        | 8           | 0.105     | 2.38              | 1.66 | 2.83      | 0.50 | 7.39         | 5.43      | 3.18  | 16.01      |
| NT Grain Drill & Pre | 24'        | MFWD 190   | 81,000         | 150        | 8           | 0.088     | 1.98              | 1.55 | 2.67      | 0.47 | 6.69         | 5.12      | 3.00  | 14.81      |
| NT Grain Drill & Pre | 30'        | MFWD 225   | 94,300         | 150        | 8           | 0.070     | 1.59              | 1.46 | 2.49      | 0.46 | 6.01         | 4.76      | 2.91  | 13.70      |
| NT Plant&Pre-Folding | 8R-38      | MFWD 170   | 56,700         | 150        | 8           | 0.083     | 1.88              | 1.31 | 1.77      | 0.39 | 5.38         | 3.40      | 2.51  | 11.29      |
| NT Plant&Pre-Folding | 8R-38 2x1  | MFWD 170   | 88,200         | 150        | 8           | 0.055     | 1.25              | 0.87 | 1.84      | 0.26 | 4.24         | 3.52      | 1.67  | 9.43       |
| NT Plant&Pre-Folding | 12R-20     | MFWD 190   | 72,100         | 150        | 8           | 0.105     | 2.38              | 1.86 | 2.85      | 0.57 | 7.68         | 5.47      | 3.60  | 16.75      |
| NT Plant&Pre-Folding | 12R-30     | MFWD 190   | 77,500         | 150        | 8           | 0.070     | 1.59              | 1.24 | 2.04      | 0.38 | 5.26         | 3.91      | 2.40  | 11.58      |
| NT Plant&Pre-Folding | 12R-38     | MFWD 190   | 88,200         | 150        | 8           | 0.055     | 1.25              | 0.97 | 1.84      | 0.30 | 4.37         | 3.52      | 1.89  | 9.79       |
| NT Plant&Pre-Folding | 16R-30     | MFWD 190   | 114,000        | 150        | 8           | 0.052     | 1.19              | 0.93 | 2.26      | 0.28 | 4.67         | 4.32      | 1.80  | 10.79      |
| NT Plant&Pre-Folding | 23R-15     | MFWD 190   | 150,000        | 150        | 8           | 0.073     | 1.65              | 1.29 | 4.13      | 0.39 | 7.47         | 7.90      | 2.50  | 17.88      |
| NT Plant&Pre-Folding | 24R-15     | MFWD 225   | 153,000        | 150        | 8           | 0.070     | 1.59              | 1.46 | 4.04      | 0.46 | 7.56         | 7.73      | 2.91  | 18.22      |
| NT Plant&Pre-Folding | 24R-20     | MFWD 190   | 162,000        | 150        | 8           | 0.052     | 1.19              | 0.93 | 3.21      | 0.28 | 5.62         | 6.14      | 1.80  | 13.56      |
| NT Plant&Pre-Folding | 24R-30     | MFWD 190   | 188,000        | 150        | 8           | 0.035     | 0.79              | 0.62 | 2.48      | 0.19 | 4.09         | 4.75      | 1.20  | 10.04      |

(continued)



Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (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-Folding | 31R-15    | MFWD 225   | 181,000        | 150        | 8           | 0.054     | 1.23              | 1.13  | 3.71      | 0.35 | 6.44         | 7.09      | 2.25  | 15.79      |
| NT Plant&Pre-Folding | 32R-15    | MFWD 225   | 197,000        | 150        | 8           | 0.052     | 1.19              | 1.10  | 3.90      | 0.34 | 6.54         | 7.47      | 2.18  | 16.20      |
| NT Plant&Pre-Rigid   | 4R-30     | 2WD 130    | 28,200         | 150        | 8           | 0.211     | 4.77              | 2.54  | 2.23      | 0.68 | 10.24        | 4.27      | 4.09  | 18.61      |
| NT Plant&Pre-Rigid   | 4R-38     | 2WD 130    | 30,800         | 150        | 8           | 0.166     | 3.75              | 2.00  | 1.92      | 0.53 | 8.22         | 3.68      | 3.22  | 15.13      |
| NT Plant&Pre-Rigid   | 6R-30     | MFWD 150   | 39,300         | 150        | 8           | 0.141     | 3.18              | 1.95  | 2.07      | 0.57 | 7.79         | 3.97      | 3.47  | 15.24      |
| NT Plant&Pre-Rigid   | 6R-38     | MFWD 150   | 36,200         | 150        | 8           | 0.111     | 2.51              | 1.54  | 1.51      | 0.45 | 6.02         | 2.89      | 2.74  | 11.66      |
| NT Plant&Pre-Rigid   | 8R-30     | MFWD 170   | 46,900         | 150        | 8           | 0.105     | 2.38              | 1.66  | 1.86      | 0.50 | 6.41         | 3.55      | 3.18  | 13.16      |
| NT Plant&Pre-Rigid   | 8R-38     | MFWD 170   | 43,200         | 150        | 8           | 0.083     | 1.88              | 1.31  | 1.35      | 0.39 | 4.95         | 2.59      | 2.51  | 10.06      |
| NT Plant&Pre-Rigid   | 10R-30    | MFWD 190   | 51,900         | 150        | 8           | 0.084     | 1.90              | 1.48  | 1.64      | 0.45 | 5.50         | 3.15      | 2.88  | 11.53      |
| NT Plant&Pre-Rigid   | 11R-15    | MFWD 170   | 56,000         | 150        | 8           | 0.143     | 3.24              | 2.26  | 3.02      | 0.68 | 9.22         | 5.78      | 4.33  | 19.33      |
| NT Plant&Pre-Rigid   | 11R-20    | MFWD 170   | 51,400         | 150        | 8           | 0.115     | 2.60              | 1.82  | 2.22      | 0.55 | 7.21         | 4.26      | 3.48  | 14.95      |
| NT Plant&Pre-Rigid   | 12R-20    | MFWD 190   | 57,700         | 150        | 8           | 0.105     | 2.38              | 1.86  | 2.28      | 0.57 | 7.10         | 4.37      | 3.60  | 15.08      |
| NT Plant&Pre-Rigid   | 12R-30    | MFWD 190   | 72,400         | 150        | 8           | 0.070     | 1.59              | 1.24  | 1.91      | 0.38 | 5.12         | 3.66      | 2.40  | 11.19      |
| NT Plant&Pre-Rigid   | 13R-18/20 | MFWD 225   | 63,000         | 150        | 8           | 0.097     | 2.20              | 2.03  | 2.30      | 0.63 | 7.17         | 4.40      | 4.02  | 15.60      |
| NT Plant&Pre-Rigid   | 15R-15    | MFWD 190   | 71,300         | 150        | 8           | 0.113     | 2.55              | 1.99  | 3.02      | 0.61 | 8.18         | 5.78      | 3.85  | 17.81      |
| NT Plant&Pre-TwinRow | 12R-30/40 | MFWD 225   | 162,000        | 150        | 8           | 0.055     | 1.25              | 1.16  | 3.38      | 0.36 | 6.16         | 6.46      | 2.30  | 14.93      |
| NT Plant&Pre-TwinRow | 8R-30/40  | MFWD 225   | 117,000        | 150        | 8           | 0.083     | 1.88              | 1.74  | 3.66      | 0.54 | 7.84         | 7.01      | 3.45  | 18.31      |
| NT Plant-Folding     | 8R-38     | MFWD 170   | 51,300         | 150        | 8           | 0.077     | 1.75              | 1.22  | 1.49      | 0.37 | 4.84         | 2.85      | 2.33  | 10.03      |
| NT Plant-Folding     | 8R-28 2x1 | MFWD 170   | 81,200         | 150        | 8           | 0.051     | 1.16              | 0.81  | 1.57      | 0.24 | 3.80         | 3.01      | 1.55  | 8.36       |
| NT Plant-Folding     | 12R-20    | MFWD 190   | 66,700         | 150        | 8           | 0.098     | 2.21              | 1.72  | 2.45      | 0.53 | 6.93         | 4.69      | 3.34  | 14.97      |
| NT Plant-Folding     | 12R-30    | MFWD 190   | 70,400         | 150        | 8           | 0.065     | 1.47              | 1.15  | 1.72      | 0.35 | 4.71         | 3.30      | 2.22  | 10.24      |
| NT Plant-Folding     | 12R-38    | MFWD 190   | 81,200         | 150        | 8           | 0.051     | 1.16              | 0.90  | 1.57      | 0.27 | 3.92         | 3.01      | 1.75  | 8.70       |
| NT Plant-Folding     | 16R-30    | MFWD 190   | 107,000        | 150        | 8           | 0.049     | 1.10              | 0.86  | 1.97      | 0.26 | 4.20         | 3.76      | 1.67  | 9.65       |
| NT Plant-Folding     | 23R-15    | MFWD 190   | 143,000        | 150        | 8           | 0.068     | 1.53              | 1.20  | 3.65      | 0.36 | 6.76         | 6.99      | 2.32  | 16.08      |
| NT Plant-Folding     | 24R-15    | MFWD 225   | 146,000        | 150        | 8           | 0.065     | 1.47              | 1.36  | 3.58      | 0.42 | 6.85         | 6.85      | 2.70  | 16.42      |
| NT Plant-Folding     | 24R-20    | MFWD 190   | 155,000        | 150        | 8           | 0.049     | 1.10              | 0.86  | 2.85      | 0.26 | 5.09         | 5.46      | 1.67  | 12.22      |
| NT Plant-Folding     | 24R-30    | MFWD 190   | 171,000        | 150        | 8           | 0.032     | 0.73              | 0.57  | 2.09      | 0.17 | 3.59         | 4.01      | 1.11  | 8.72       |
| NT Plant-Folding     | 31R-15    | MFWD 225   | 163,000        | 150        | 8           | 0.050     | 1.14              | 1.05  | 3.10      | 0.33 | 5.63         | 5.93      | 2.09  | 13.67      |
| NT Plant-Folding     | 32R-15    | MFWD 225   | 180,000        | 150        | 8           | 0.049     | 1.10              | 1.02  | 3.31      | 0.32 | 5.76         | 6.34      | 2.02  | 14.13      |
| NT Plant-Rigid       | 4R-30     | 2WD 130    | 22,900         | 150        | 8           | 0.196     | 4.43              | 2.36  | 1.68      | 0.63 | 9.11         | 3.22      | 3.80  | 16.14      |
| NT Plant-Rigid       | 4R-38     | 2WD 130    | 25,500         | 150        | 8           | 0.154     | 3.49              | 1.86  | 1.47      | 0.49 | 7.33         | 2.82      | 2.99  | 13.15      |
| NT Plant-Rigid       | 6R-30     | MFWD 150   | 34,000         | 150        | 8           | 0.130     | 2.95              | 1.81  | 1.66      | 0.53 | 6.98         | 3.19      | 3.22  | 13.40      |
| NT Plant-Rigid       | 6R-38     | MFWD 150   | 30,900         | 150        | 8           | 0.103     | 2.33              | 1.43  | 1.19      | 0.42 | 5.39         | 2.29      | 2.54  | 10.22      |
| NT Plant-Rigid       | 8R-30     | MFWD 170   | 41,600         | 150        | 8           | 0.098     | 2.21              | 1.54  | 1.53      | 0.46 | 5.76         | 2.93      | 2.95  | 11.65      |
| NT Plant-Rigid       | 8R-38     | MFWD 170   | 37,800         | 150        | 8           | 0.077     | 1.75              | 1.22  | 1.10      | 0.37 | 4.44         | 2.10      | 2.33  | 8.88       |
| NT Plant-Rigid       | 10R-30    | MFWD 190   | 46,500         | 150        | 8           | 0.078     | 1.77              | 1.38  | 1.37      | 0.42 | 4.95         | 2.62      | 2.67  | 10.24      |
| NT Plant-Rigid       | 11R-15    | MFWD 170   | 50,700         | 150        | 8           | 0.133     | 3.01              | 2.10  | 2.54      | 0.63 | 8.29         | 4.85      | 4.02  | 17.18      |
| NT Plant-Rigid       | 11R-20    | MFWD 170   | 46,100         | 150        | 8           | 0.107     | 2.42              | 1.69  | 1.85      | 0.51 | 6.48         | 3.54      | 3.23  | 13.26      |
| NT Plant-Rigid       | 12R-20    | MFWD 190   | 52,300         | 150        | 8           | 0.098     | 2.21              | 1.72  | 1.92      | 0.53 | 6.40         | 3.68      | 3.34  | 13.43      |
| NT Plant-Rigid       | 12R-30    | MFWD 190   | 65,400         | 150        | 8           | 0.065     | 1.47              | 1.15  | 1.60      | 0.35 | 4.59         | 3.07      | 2.22  | 9.89       |
| NT Plant-Rigid       | 13R-18/20 | MFWD 225   | 57,600         | 150        | 8           | 0.090     | 2.05              | 1.89  | 1.96      | 0.59 | 6.50         | 3.75      | 3.75  | 14.02      |
| NT Plant-Rigid       | 15R-15    | MFWD 190   | 64,300         | 150        | 8           | 0.105     | 2.37              | 1.84  | 2.53      | 0.56 | 7.32         | 4.84      | 3.57  | 15.74      |
| NT Plant-TwinRow     | 12R-30/40 | MFWD 225   | 144,000        | 150        | 8           | 0.051     | 1.16              | 1.07  | 2.79      | 0.33 | 5.37         | 5.33      | 2.13  | 12.84      |
| NT Plant-TwinRow     | 8R-30/40  | MFWD 225   | 112,000        | 150        | 8           | 0.077     | 1.75              | 1.61  | 3.26      | 0.50 | 7.14         | 6.23      | 3.20  | 16.58      |
| Peanut Cond.& Lifter | 6-Row     | MFWD 190   | 13,300         | 300        | 20          | 0.100     | 1.35              | 1.76  | 0.22      | 0.54 | 3.87         | 0.32      | 3.40  | 7.60       |
| Peanut Conditioner   | 6-Row     | MFWD 190   | 15,300         | 300        | 20          | 0.100     | 1.35              | 1.76  | 0.30      | 0.54 | 3.95         | 0.33      | 3.40  | 7.69       |
| Peanut Dig/Invertor  | 4R-30     | MFWD 190   | 29,800         | 300        | 15          | 0.235     | 3.18              | 4.15  | 1.74      | 1.27 | 10.36        | 2.09      | 8.02  | 20.48      |
| Peanut Dig/Invertor  | 4R-38     | MFWD 190   | 29,800         | 300        | 15          | 0.186     | 2.51              | 3.27  | 1.38      | 1.00 | 8.18         | 1.65      | 6.33  | 16.17      |
| Peanut Dig/Invertor  | 6R-38     | MFWD 190   | 43,400         | 300        | 15          | 0.124     | 1.67              | 2.18  | 0.94      | 0.67 | 5.47         | 1.60      | 4.22  | 11.30      |
| Peanut Dump Cart     | 6-Row     | MFWD 190   | 48,500         | 300        | 20          | 0.310     | 4.18              | 5.45  | 0.87      | 1.67 | 12.19        | 3.56      | 10.55 | 26.31      |
| Peanut Harvester     | 4R-30     | MFWD 225   | 137,000        | 300        | 20          | 0.849     | 11.48             | 17.71 | 6.59      | 5.57 | 41.37        | 25.27     | 35.12 | 101.78     |
| Peanut Harvester     | 4R-38     | MFWD 225   | 137,000        | 300        | 20          | 0.934     | 12.62             | 19.48 | 7.25      | 6.13 | 45.49        | 29.08     | 38.62 | 113.20     |
| Peanut Harvester     | 6R-38     | MFWD 225   | 151,000        | 300        | 20          | 0.625     | 8.44              | 13.02 | 4.56      | 4.10 | 30.13        | 21.43     | 25.82 | 77.40      |
| Peanut Lifter        | 6-Row     | MFWD 225   | 6,500          | 300        | 20          | 0.100     | 1.35              | 2.08  | 0.13      | 0.65 | 4.22         | 0.14      | 4.13  | 8.49       |
| Peanut Plt&Pre Fold. | 12R-38    | MFWD 190   | 81,200         | 150        | 8           | 0.080     | 1.81              | 1.41  | 2.44      | 0.43 | 6.11         | 4.68      | 2.73  | 13.53      |
| Peanut Plt&Pre Rigid | 8R-30     | MFWD 190   | 42,300         | 150        | 8           | 0.152     | 3.44              | 2.68  | 2.42      | 0.82 | 9.38         | 4.63      | 5.20  | 19.22      |
| Peanut Plt&Pre Rigid | 8R-38     | MFWD 190   | 38,500         | 150        | 8           | 0.120     | 2.72              | 2.12  | 1.74      | 0.65 | 7.24         | 3.33      | 4.11  | 14.69      |
| Pipe Spool 160ac     | 1/4m roll | 2WD 130    | 3,600          | 15         | 12          | 0.003     | 0.09              | 0.03  | 0.00      | 0.01 | 0.15         | 0.07      | 0.06  | 0.28       |
| Pipe Trailer 1m/160a | 30'       | 2WD 130    | 1,380          | 100        | 15          | 0.003     | 0.18              | 0.04  | 0.00      | 0.01 | 0.24         | 0.00      | 0.07  | 0.32       |
| Plant & Pre-Folding  | 8R-38     | MFWD 170   | 52,000         | 150        | 8           | 0.080     | 1.81              | 1.26  | 1.56      | 0.38 | 5.02         | 2.99      | 2.41  | 10.43      |
| Plant & Pre-Folding  | 8R-38 2x1 | MFWD 170   | 81,200         | 150        | 8           | 0.053     | 1.20              | 0.84  | 1.62      | 0.25 | 3.93         | 3.11      | 1.60  | 8.65       |
| Plant & Pre-Folding  | 12R-20    | MFWD 190   | 65,100         | 150        | 8           | 0.101     | 2.29              | 1.78  | 2.47      | 0.54 | 7.10         | 4.74      | 3.45  | 15.30      |
| Plant & Pre-Folding  | 12R-30    | MFWD 190   | 70,500         | 150        | 8           | 0.067     | 1.52              | 1.19  | 1.78      | 0.36 | 4.87         | 3.42      | 2.30  | 10.60      |
| Plant & Pre-Folding  | 12R-38    | MFWD 190   | 81,200         | 150        | 8           | 0.053     | 1.20              | 0.94  | 1.62      | 0.28 | 4.06         | 3.11      | 1.81  | 8.99       |
| Plant & Pre-Folding  | 16R-30    | MFWD 190   | 105,000        | 150        | 8           | 0.050     | 1.14              | 0.89  | 1.99      | 0.27 | 4.31         | 3.82      | 1.72  | 9.86       |
| Plant & Pre-Folding  | 23R-15    | MFWD 190   | 137,000        | 150        | 8           | 0.070     | 1.59              | 1.24  | 3.62      | 0.38 | 6.83         | 6.92      | 2.40  | 16.16      |
| Plant & Pre-Folding  | 24R-15    | MFWD 225   | 139,000        | 150        | 8           | 0.067     | 1.52              | 1.41  | 3.52      | 0.44 | 6.91         | 6.74      | 2.79  | 16.45      |
| Plant & Pre-Folding  | 24R-20    | MFWD 190   | 148,000        | 150        | 8           | 0.050     | 1.14              | 0.89  | 2.81      | 0.27 | 5.13         | 5.38      | 1.72  | 12.25      |
| Plant & Pre-Folding  | 24R-30    | MFWD 190   | 174,000        | 150        | 8           | 0.033     | 0.76              | 0.59  | 2.20      | 0.18 | 3.75         | 4.22      | 1.15  | 9.12       |
| Plant & Pre-Folding  | 31R-15    | MFWD 225   | 163,000        | 150        | 8           | 0.052     | 1.18              | 1.09  | 3.20      | 0.34 | 5.82         | 6.13      | 2.16  | 14.13      |
| Plant & Pre-Folding  | 32R-15    | MFWD 225   | 179,000        | 150        | 8           | 0.050     | 1.14              | 1.05  | 3.40      | 0.33 | 5.94         | 6.51      | 2.09  | 14.56      |
| Plant & Pre-Rigid    | 4R-30     | 2WD 130    | 25,900         | 150        | 8           | 0.203     | 4.58              | 2.44  | 1.97      | 0.65 | 9.65         | 3.77      | 3.93  | 17.36      |
| Plant & Pre-Rigid    | 4R-38     | 2WD 130    | 28,500         | 150        | 8           | 0.159     | 3.60              | 1.92  | 1.70      | 0.51 | 7.75         | 3.26      | 3.09  | 14.12      |
| Plant & Pre-Rigid    | 6R-30     | MFWD 150   | 25,900         | 150        | 8           | 0.135     | 3.05              | 1.88  | 1.31      | 0.55 | 6.80         | 2.51      | 3.33  | 12.65      |
| Plant & Pre-Rigid    | 6R-38     | MFWD 150   | 32,700         | 150        | 8           | 0.106     | 2.41              | 1.48  | 1.31      | 0.43 | 5.64         | 2.50      | 2.63  | 10.78      |
| Plant & Pre-Rigid    | 8R-30     | MFWD 170   | 42,300         | 150        | 8           | 0.101     | 2.29              | 1.59  | 1.61      | 0.48 | 5.98         | 3.08      | 3.05  | 12.12      |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (continued)

| Item Name            | Size      | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor             | Fuel | ---R&M---<br>Imp. P.U. | Total Direct | --Fixed--<br>Imp. P.U. | Total Cost |      |       |
|----------------------|-----------|------------|----------------|------------|-------------|-----------|-------------------|------|------------------------|--------------|------------------------|------------|------|-------|
|                      |           |            | dollars        | hours      | years       | hr/ac     | -----\$/acre----- |      |                        |              |                        |            |      |       |
| Plant & Pre-Rigid    | 8R-38     | MFWD 170   | 38,500         | 150        | 8           | 0.080     | 1.81              | 1.26 | 1.15                   | 0.38         | 4.61                   | 2.21       | 2.41 | 9.25  |
| Plant & Pre-Rigid    | 10R-30    | MFWD 190   | 46,000         | 150        | 8           | 0.081     | 1.83              | 1.42 | 1.40                   | 0.43         | 5.10                   | 2.68       | 2.76 | 10.54 |
| Plant & Pre-Rigid    | 11R-15    | MFWD 170   | 49,600         | 150        | 8           | 0.148     | 3.34              | 2.33 | 2.75                   | 0.70         | 9.14                   | 5.27       | 4.46 | 18.88 |
| Plant & Pre-Rigid    | 11R-20    | MFWD 170   | 45,000         | 150        | 8           | 0.110     | 2.50              | 1.74 | 1.87                   | 0.53         | 6.65                   | 3.58       | 3.34 | 13.57 |
| Plant & Pre-Rigid    | 12R-20    | MFWD 190   | 50,700         | 150        | 8           | 0.101     | 2.29              | 1.78 | 1.93                   | 0.54         | 6.55                   | 3.69       | 3.45 | 13.70 |
| Plant & Pre-Rigid    | 12R-30    | MFWD 190   | 65,400         | 150        | 8           | 0.067     | 1.52              | 1.19 | 1.66                   | 0.36         | 4.74                   | 3.17       | 2.30 | 10.22 |
| Plant & Pre-Rigid    | 13R-18/20 | MFWD 225   | 55,400         | 150        | 8           | 0.093     | 2.11              | 1.95 | 1.94                   | 0.61         | 6.62                   | 3.71       | 3.86 | 14.20 |
| Plant & Pre-Rigid    | 15R-15    | MFWD 190   | 62,600         | 150        | 8           | 0.108     | 2.45              | 1.91 | 2.54                   | 0.58         | 7.49                   | 4.87       | 3.69 | 16.07 |
| Plant & Pre-TwinRow  | 12R-30/40 | MFWD 225   | 148,000        | 150        | 8           | 0.053     | 1.20              | 1.11 | 2.96                   | 0.35         | 5.63                   | 5.67       | 2.20 | 13.51 |
| Plant & Pre-TwinRow  | 8R-30/40  | MFWD 225   | 108,000        | 150        | 8           | 0.080     | 1.81              | 1.67 | 3.25                   | 0.52         | 7.26                   | 6.21       | 3.31 | 16.79 |
| Plant - Folding      | 8R-38     | MFWD 170   | 46,600         | 150        | 8           | 0.074     | 1.68              | 1.17 | 1.30                   | 0.35         | 4.51                   | 2.49       | 2.24 | 9.25  |
| Plant - Folding      | 8R-38 2x1 | MFWD 170   | 74,200         | 150        | 8           | 0.049     | 1.11              | 0.78 | 1.38                   | 0.23         | 3.51                   | 2.64       | 1.49 | 7.65  |
| Plant - Folding      | 12R-20    | MFWD 190   | 59,700         | 150        | 8           | 0.094     | 2.12              | 1.65 | 2.11                   | 0.50         | 6.40                   | 4.03       | 3.20 | 13.65 |
| Plant - Folding      | 12R-20    | MFWD 190   | 63,400         | 150        | 8           | 0.062     | 1.41              | 1.10 | 1.49                   | 0.33         | 4.35                   | 2.85       | 2.13 | 9.35  |
| Plant - Folding      | 12R-38    | MFWD 190   | 74,200         | 150        | 8           | 0.049     | 1.11              | 0.87 | 1.38                   | 0.26         | 3.64                   | 2.64       | 1.68 | 7.97  |
| Plant - Folding      | 16R-30    | MFWD 190   | 97,900         | 150        | 8           | 0.047     | 1.06              | 0.82 | 1.73                   | 0.25         | 3.87                   | 3.31       | 1.60 | 8.79  |
| Plant - Folding      | 23R-15    | MFWD 190   | 130,000        | 150        | 8           | 0.065     | 1.47              | 1.15 | 3.19                   | 0.35         | 6.17                   | 6.10       | 2.22 | 14.51 |
| Plant - Folding      | 24R-15    | MFWD 225   | 132,000        | 150        | 8           | 0.062     | 1.41              | 1.31 | 3.11                   | 0.41         | 6.25                   | 5.95       | 2.59 | 14.80 |
| Plant - Folding      | 24R-20    | MFWD 190   | 141,000        | 150        | 8           | 0.047     | 1.06              | 0.82 | 2.49                   | 0.25         | 4.64                   | 4.76       | 1.60 | 11.01 |
| Plant - Folding      | 24R-30    | MFWD 190   | 156,000        | 150        | 8           | 0.031     | 0.70              | 0.55 | 1.83                   | 0.16         | 3.27                   | 3.51       | 1.06 | 7.85  |
| Plant - Folding      | 31R-15    | MFWD 225   | 145,000        | 150        | 8           | 0.048     | 1.09              | 1.01 | 2.64                   | 0.31         | 5.08                   | 5.06       | 2.01 | 12.16 |
| Plant - Folding      | 32R-15    | MFWD 225   | 161,000        | 150        | 8           | 0.047     | 1.06              | 0.98 | 2.84                   | 0.30         | 5.20                   | 5.44       | 1.94 | 12.59 |
| Plant - Rigid        | 4R-30     | 2WD 130    | 20,500         | 150        | 8           | 0.188     | 4.25              | 2.27 | 1.44                   | 0.60         | 8.58                   | 2.77       | 3.65 | 15.00 |
| Plant - Rigid        | 4R-38     | 2WD 130    | 23,100         | 150        | 8           | 0.148     | 3.35              | 1.78 | 1.28                   | 0.47         | 6.90                   | 2.46       | 2.87 | 12.24 |
| Plant - Rigid        | 6R-30     | MFWD 150   | 30,500         | 150        | 8           | 0.125     | 2.83              | 1.74 | 1.43                   | 0.51         | 6.53                   | 2.75       | 3.09 | 12.38 |
| Plant - Rigid        | 6R-38     | MFWD 150   | 27,400         | 150        | 8           | 0.099     | 2.24              | 1.37 | 1.01                   | 0.40         | 5.04                   | 1.95       | 2.44 | 9.44  |
| Plant - Rigid        | 8R-30     | MFWD 170   | 36,900         | 150        | 8           | 0.094     | 2.12              | 1.48 | 1.30                   | 0.45         | 5.36                   | 2.49       | 2.83 | 10.70 |
| Plant - Rigid        | 8R-38     | MFWD 170   | 33,100         | 150        | 8           | 0.074     | 1.68              | 1.17 | 0.92                   | 0.35         | 4.13                   | 1.76       | 2.24 | 8.15  |
| Plant - Rigid        | 10R-30    | MFWD 190   | 40,700         | 150        | 8           | 0.075     | 1.70              | 1.32 | 1.15                   | 0.40         | 4.58                   | 2.20       | 2.56 | 9.35  |
| Plant - Rigid        | 11R-15    | MFWD 170   | 44,200         | 150        | 8           | 0.137     | 3.10              | 2.16 | 2.28                   | 0.65         | 8.21                   | 4.36       | 4.14 | 16.72 |
| Plant - Rigid        | 11R-20    | MFWD 170   | 39,600         | 150        | 8           | 0.103     | 2.32              | 1.62 | 1.53                   | 0.49         | 5.97                   | 2.92       | 3.10 | 12.00 |
| Plant - Rigid        | 12R-20    | MFWD 190   | 45,300         | 150        | 8           | 0.094     | 2.12              | 1.65 | 1.60                   | 0.50         | 5.89                   | 3.06       | 3.20 | 12.17 |
| Plant - Rigid        | 12R-30    | MFWD 190   | 58,300         | 150        | 8           | 0.062     | 1.41              | 1.10 | 1.37                   | 0.33         | 4.23                   | 2.62       | 2.13 | 9.00  |
| Plant - Rigid        | 13R-18/20 | MFWD 225   | 50,000         | 150        | 8           | 0.086     | 1.96              | 1.81 | 1.62                   | 0.57         | 5.97                   | 3.11       | 3.59 | 12.68 |
| Plant - Rigid        | 15R-15    | 2WD 150    | 55,500         | 150        | 8           | 0.094     | 2.12              | 1.31 | 1.96                   | 0.31         | 5.71                   | 3.75       | 1.91 | 11.38 |
| Plant - TwinRow      | 12R-30/40 | MFWD 225   | 130,000        | 150        | 8           | 0.049     | 1.11              | 1.03 | 2.41                   | 0.32         | 4.89                   | 4.62       | 2.05 | 11.57 |
| Plant - TwinRow      | 8R-30/40  | MFWD 225   | 102,000        | 150        | 8           | 0.074     | 1.68              | 1.55 | 2.85                   | 0.48         | 6.57                   | 5.45       | 3.07 | 15.10 |
| Roller/Cultipacker   | 12'       | 2WD 130    | 6,910          | 300        | 12          | 0.124     | 1.68              | 1.49 | 0.20                   | 0.40         | 3.78                   | 0.27       | 2.41 | 6.47  |
| Roller/Cultipacker   | 20'       | MFWD 150   | 17,000         | 300        | 12          | 0.074     | 1.00              | 1.03 | 0.29                   | 0.30         | 2.65                   | 0.41       | 1.83 | 4.90  |
| Roller/Cultipacker   | 30'       | MFWD 170   | 19,100         | 300        | 12          | 0.049     | 0.67              | 0.78 | 0.22                   | 0.23         | 1.91                   | 0.30       | 1.49 | 3.72  |
| Roller/Cultipacker   | 38'       | MFWD 225   | 21,300         | 300        | 12          | 0.039     | 0.53              | 0.81 | 0.19                   | 0.25         | 1.80                   | 0.27       | 1.62 | 3.70  |
| Roller/Stubble       | 20'       | 2WD 50     | 13,500         | 300        | 12          | 0.074     | 1.00              | 0.34 | 0.23                   | 0.04         | 1.64                   | 0.32       | 0.29 | 2.26  |
| Roller/Stubble       | 32'       | MFWD 225   | 22,800         | 300        | 12          | 0.046     | 0.63              | 0.97 | 0.25                   | 0.30         | 2.16                   | 0.34       | 1.92 | 4.43  |
| Rotary Cutter        | 7'        | MFWD 130   | 4,760          | 185        | 10          | 0.168     | 2.27              | 2.02 | 0.64                   | 0.59         | 5.54                   | 0.45       | 3.57 | 9.58  |
| Rotary Cutter        | 12'       | 2WD 150    | 11,600         | 185        | 10          | 0.098     | 1.32              | 1.36 | 0.92                   | 0.33         | 3.94                   | 0.65       | 1.99 | 6.59  |
| Rotary Cutter-Flex   | 15'       | MFWD 150   | 19,700         | 185        | 10          | 0.078     | 1.06              | 1.09 | 1.25                   | 0.32         | 3.73                   | 0.88       | 1.93 | 6.54  |
| Rotary Cutter-Flex   | 20'       | MFWD 150   | 27,700         | 185        | 10          | 0.058     | 0.79              | 0.81 | 1.32                   | 0.24         | 3.17                   | 0.93       | 1.45 | 5.56  |
| Row Cond & Inc-Fold. | 26'       | MFWD 190   | 24,700         | 100        | 10          | 0.063     | 1.14              | 1.11 | 0.39                   | 0.34         | 2.99                   | 1.65       | 2.16 | 6.81  |
| Row Cond & Inc-Fold. | 38'       | MFWD 225   | 33,200         | 100        | 10          | 0.043     | 0.78              | 0.90 | 0.36                   | 0.28         | 2.33                   | 1.52       | 1.79 | 5.65  |
| Row Cond & Inc-Rigid | 13'       | 2WD 130    | 14,600         | 100        | 10          | 0.126     | 2.28              | 1.52 | 0.46                   | 0.40         | 4.69                   | 1.95       | 2.45 | 9.10  |
| Row Cond & Inc-Rigid | 21'       | 2WD 170    | 18,400         | 100        | 10          | 0.078     | 1.41              | 1.23 | 0.36                   | 0.29         | 3.30                   | 1.52       | 1.83 | 6.67  |
| Row Cond & Inc-Rigid | 26'       | MFWD 190   | 20,700         | 100        | 10          | 0.026     | 0.48              | 0.46 | 0.13                   | 0.14         | 1.23                   | 0.58       | 0.90 | 2.71  |
| Row Cond Folding     | 26'       | MFWD 225   | 19,300         | 100        | 10          | 0.059     | 0.80              | 1.24 | 0.28                   | 0.39         | 2.73                   | 1.21       | 2.46 | 6.41  |
| Row Cond Folding     | 38'       | MFWD 225   | 26,100         | 100        | 10          | 0.040     | 0.55              | 0.85 | 0.26                   | 0.26         | 1.93                   | 1.12       | 1.68 | 4.75  |
| Row Cond Rigid       | 13'       | 2WD 130    | 9,260          | 100        | 10          | 0.119     | 1.61              | 1.43 | 0.27                   | 0.38         | 3.71                   | 1.16       | 2.31 | 7.19  |
| Row Cond Rigid       | 21'       | 2WD 170    | 13,000         | 100        | 10          | 0.073     | 0.99              | 1.16 | 0.24                   | 0.27         | 2.67                   | 1.01       | 1.73 | 5.42  |
| Row Cond Rigid       | 26'       | MFWD 190   | 15,400         | 100        | 10          | 0.059     | 0.80              | 1.05 | 0.22                   | 0.32         | 2.41                   | 0.97       | 2.03 | 5.41  |
| Row Cond./Roll-Fold. | 26'       | MFWD 190   | 26,800         | 160        | 10          | 0.072     | 0.97              | 1.26 | 0.48                   | 0.38         | 3.11                   | 1.27       | 2.45 | 6.84  |
| Row Cond./Roll-Fold. | 30'       | MFWD 190   | 35,600         | 160        | 10          | 0.062     | 0.84              | 1.10 | 0.55                   | 0.33         | 2.83                   | 1.46       | 2.12 | 6.43  |
| Row Cond./Roll-Fold. | 40'       | MFWD 225   | 29,400         | 160        | 10          | 0.046     | 0.63              | 0.97 | 0.34                   | 0.30         | 2.26                   | 0.91       | 1.93 | 5.11  |
| Row Cond./Roll-Rigid | 21'       | MFWD 190   | 23,000         | 160        | 10          | 0.089     | 1.20              | 1.57 | 0.51                   | 0.48         | 3.77                   | 1.35       | 3.03 | 8.17  |
| Row Cond./Roll-Rigid | 26'       | MFWD 190   | 25,800         | 160        | 10          | 0.072     | 0.97              | 1.26 | 0.46                   | 0.38         | 3.09                   | 1.22       | 2.45 | 6.78  |
| Spin Spreader        | 5 ton     | MFWD 190   | 12,400         | 100        | 8           | 0.042     | 0.94              | 0.74 | 0.29                   | 0.22         | 2.21                   | 0.58       | 1.43 | 4.23  |
| Spray (ATV Ropewick) | 75"       | 800 CC     | 700            | 200        | 8           | 0.260     | 4.69              | 0.38 | 0.08                   | 0.40         | 5.57                   | 0.10       | 1.60 | 7.27  |
| Spray (ATV)          | 12'/17'   | 800 CC     | 2,280          | 200        | 8           | 0.112     | 2.03              | 0.16 | 0.12                   | 0.17         | 2.49                   | 0.14       | 0.69 | 3.33  |
| Spray (ATV)          | 20'       | 800 CC     | 1,700          | 200        | 8           | 0.084     | 1.52              | 0.12 | 0.06                   | 0.13         | 1.85                   | 0.08       | 0.52 | 2.45  |
| Spray (Band)         | 27' Fold  | MFWD 170   | 5,350          | 200        | 8           | 0.062     | 1.13              | 0.98 | 0.15                   | 0.29         | 2.57                   | 0.18       | 1.88 | 4.65  |
| Spray (Band)         | 40' Fold  | MFWD 170   | 7,050          | 200        | 8           | 0.042     | 0.76              | 0.66 | 0.13                   | 0.20         | 1.77                   | 0.16       | 1.27 | 3.21  |
| Spray (Band)         | 50' Fold  | MFWD 170   | 11,200         | 200        | 8           | 0.033     | 0.61              | 0.53 | 0.17                   | 0.16         | 1.48                   | 0.21       | 1.01 | 2.71  |
| Spray (Band)         | 53' Fold  | MFWD 170   | 9,940          | 200        | 8           | 0.031     | 0.57              | 0.50 | 0.14                   | 0.15         | 1.38                   | 0.17       | 0.96 | 2.52  |
| Spray (Band)         | 60' Fold  | MFWD 170   | 17,800         | 200        | 8           | 0.028     | 0.50              | 0.44 | 0.23                   | 0.13         | 1.32                   | 0.28       | 0.84 | 2.45  |
| Spray (Bcast/HB)     | 13' Rigid | MFWD 150   | 6,600          | 200        | 8           | 0.130     | 2.34              | 1.80 | 0.40                   | 0.53         | 5.09                   | 0.48       | 3.20 | 8.78  |
| Spray (Bcast/HB)     | 20' Rigid | MFWD 150   | 7,700          | 200        | 8           | 0.084     | 1.52              | 1.17 | 0.30                   | 0.34         | 3.35                   | 0.36       | 2.08 | 5.80  |
| Spray (Bcast/HB)     | 27' Fold  | MFWD 170   | 11,000         | 200        | 8           | 0.062     | 1.13              | 0.98 | 0.32                   | 0.29         | 2.74                   | 0.38       | 1.88 | 5.01  |
| Spray (Bcast/HB)     | 27' Rigid | MFWD 170   | 9,300          | 200        | 8           | 0.062     | 1.13              | 0.98 | 0.27                   | 0.29         | 2.69                   | 0.32       | 1.88 | 4.90  |
| Spray (Bcast/HB)     | 30' Fold  | MFWD 170   | 16,800         | 200        | 8           | 0.056     | 1.01              | 0.88 | 0.44                   | 0.26         | 2.62                   | 0.53       | 1.69 | 4.85  |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (continued)

| Item Name            | Size     | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor             | Fuel | ---R&M--- | Total Direct | --Fixed-- | Total Cost |      |       |
|----------------------|----------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|--------------|-----------|------------|------|-------|
|                      |          |            | dollars        | hours      | years       | hr/ac     | -----\$/acre----- |      |           |              |           |            |      |       |
| Spray (Bcast/HB)     | 40' Fold | MFWD 170   | 17,500         | 200        | 8           | 0.042     | 0.76              | 0.66 | 0.34      | 0.20         | 1.97      | 0.41       | 1.27 | 3.67  |
| Spray (Broadcast)    | 27'      | MFWD 170   | 5,350          | 200        | 8           | 0.062     | 1.13              | 0.98 | 0.15      | 0.29         | 2.57      | 0.18       | 1.88 | 4.65  |
| Spray (Broadcast)    | 40'      | MFWD 170   | 7,050          | 200        | 8           | 0.042     | 0.76              | 0.66 | 0.13      | 0.20         | 1.77      | 0.16       | 1.27 | 3.21  |
| Spray (Broadcast)    | 50'      | MFWD 170   | 11,200         | 200        | 8           | 0.033     | 0.61              | 0.53 | 0.17      | 0.16         | 1.48      | 0.21       | 1.01 | 2.71  |
| Spray (Spot)         | 53'      | MFWD 170   | 9,940          | 200        | 8           | 0.031     | 0.57              | 0.50 | 0.14      | 0.15         | 1.38      | 0.17       | 0.96 | 2.52  |
| Spray (Spot)         | 60'      | MFWD 225   | 17,800         | 200        | 8           | 0.028     | 0.50              | 0.58 | 0.23      | 0.18         | 1.51      | 0.28       | 1.16 | 2.96  |
| Stalk Shredder       | 14'      | MFWD 150   | 12,100         | 200        | 10          | 0.117     | 1.59              | 1.63 | 1.24      | 0.48         | 4.96      | 0.75       | 2.90 | 8.61  |
| Stalk Shredder Flex  | 20'      | MFWD 150   | 27,700         | 200        | 10          | 0.082     | 1.11              | 1.14 | 1.99      | 0.33         | 4.59      | 1.20       | 2.03 | 7.83  |
| Stalk Shredder-Flail | 12'      | MFWD 150   | 21,800         | 200        | 10          | 0.137     | 1.85              | 1.91 | 2.62      | 0.56         | 6.95      | 1.58       | 3.38 | 11.92 |
| Stalk Shredder-Flail | 15'      | MFWD 150   | 22,100         | 200        | 10          | 0.110     | 1.48              | 1.52 | 2.12      | 0.45         | 5.59      | 1.28       | 2.70 | 9.58  |
| Stalk Shredder-Flail | 18'      | MFWD 150   | 27,100         | 200        | 10          | 0.091     | 1.23              | 1.27 | 2.17      | 0.37         | 5.06      | 1.31       | 2.25 | 8.63  |
| Stalk Shredder-Flail | 20'      | MFWD 150   | 27,500         | 200        | 10          | 0.082     | 1.11              | 1.14 | 1.98      | 0.33         | 4.58      | 1.19       | 2.03 | 7.81  |
| Stalk Shredder-Flail | 25'      | MFWD 150   | 36,700         | 200        | 10          | 0.066     | 0.89              | 0.91 | 2.11      | 0.27         | 4.19      | 1.27       | 1.62 | 7.10  |
| Strip Till           | 8R-38    | MFWD 225   | 37,700         | 150        | 10          | 0.061     | 0.83              | 1.28 | 1.00      | 0.40         | 3.52      | 1.63       | 2.54 | 7.71  |
| Strip Till           | 12R-30   | MFWD 225   | 59,700         | 150        | 10          | 0.061     | 0.83              | 1.28 | 1.59      | 0.40         | 4.11      | 2.59       | 2.54 | 9.25  |
| Strip Till           | 12R-40   | MFWD 225   | 64,800         | 150        | 10          | 0.046     | 0.62              | 0.96 | 1.29      | 0.30         | 3.18      | 2.10       | 1.91 | 7.20  |
| Subsoiler            | 3 shank  | MFWD 190   | 4,550          | 100        | 15          | 0.204     | 2.76              | 3.59 | 0.30      | 1.10         | 7.77      | 0.76       | 6.95 | 15.49 |
| Subsoiler            | 4 shank  | MFWD 225   | 8,900          | 100        | 15          | 0.153     | 2.07              | 3.20 | 0.45      | 1.00         | 6.74      | 1.12       | 6.34 | 14.21 |
| Subsoiler            | 5 shank  | MFWD 225   | 12,100         | 100        | 15          | 0.122     | 1.65              | 2.55 | 0.49      | 0.80         | 5.50      | 1.22       | 5.05 | 11.77 |
| Subsoiler low-till   | 4 shank  | MFWD 225   | 10,800         | 100        | 15          | 0.153     | 2.07              | 3.20 | 0.55      | 1.00         | 6.83      | 1.36       | 6.34 | 14.55 |
| Subsoiler low-till   | 6 shank  | MFWD 225   | 17,100         | 100        | 15          | 0.102     | 1.38              | 2.12 | 0.58      | 0.67         | 4.76      | 1.44       | 4.22 | 10.42 |
| Subsoiler low-till   | 8 shank  | MFWD 225   | 17,300         | 100        | 15          | 0.076     | 1.03              | 1.59 | 0.44      | 0.50         | 3.57      | 1.09       | 3.16 | 7.82  |

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, 2018

| ITEM NAME             | UNIT | PRICE   | ITEM NAME          | UNIT | PRICE   |
|-----------------------|------|---------|--------------------|------|---------|
|                       |      | dollars |                    |      | dollars |
| ADJUVANTS             |      |         | Cotton Seed Trt.   | acre | 20.00   |
| Agri-Dex              | pt   | 2.38    | CruiserMaxx        | oz   | 4.25    |
| Class Act NG          | pt   | 2.38    | Dithane F-45       | qt   | 7.81    |
| Crop Oil Conc. (Pet.) | pt   | 2.74    | Enable 2F          | oz   | 1.97    |
| Crop Oil Conc. (Veg.) | pt   | 2.61    | Headline EC        | oz   | 2.63    |
| Dyne-A-Pak            | pt   | 4.73    | Manzate 75 DF      | lb   | 4.86    |
| Herbimax              | pt   | 1.88    | Moncut 70 DF       | lb   | 32.81   |
| Induce                | pt   | 3.31    | Propimax EC        | pt   | 12.64   |
| MSO                   | pt   | 2.61    | Prosaro            | oz   | 5.57    |
| Penetrator Plus       | pt   | 3.50    | Provost            | oz   | 2.43    |
| Prime Oil             | pt   | 2.35    | Quadris            | oz   | 2.14    |
| Surfactant            | pt   | 3.28    | Quadris Top        | oz   | 2.55    |
| CLEANING              |      |         | Quadris Top SBX    | oz   | 2.75    |
| Cleaning Peanuts      | ton  | 18.00   | Quilt              | pt   | 18.55   |
| CROP CONSULTANT       |      |         | Quilt XCEL         | pt   | 25.43   |
| Corn Consultant       | acre | 6.00    | Ridomil Gold       | oz   | 6.42    |
| Cotton Consultant     | acre | 8.00    | Rovral 4F          | pt   | 14.90   |
| Peanut Consultant     | acre | 9.25    | Stratego           | pt   | 17.50   |
| Rice Consultant       | acre | 8.00    | Stratego YLD       | oz   | 4.28    |
| Sorghum Consultant    | acre | 6.00    | Tilt 3.6 EC        | oz   | 0.75    |
| Soybeans Consultant   | acre | 6.50    | Tilt/ Bravo SE     | oz   | 0.41    |
| Wheat Consultant      | acre | 5.50    | Uniform            | oz   | 4.63    |
| CUSTOM FERTILIZE      |      |         | GINNING            |      |         |
| App Fert by Air       | cwt  | 7.00    | Gin & Haul         | lb   | 0.11    |
| App Fert by Air (Mi)  | appl | 7.00    | GROWTH REGULATORS  |      |         |
| Custom Apply Fert     | acre | 7.50    | Mepex              | oz   | 0.08    |
| CUSTOM LIME           |      |         | Mepichlor 4.2%     | oz   | 0.07    |
| Lime (Spread)         | ton  | 46.00   | Mepiquat           | oz   | 0.07    |
| CUSTOM PLANT          |      |         | Pentia             | pt   | 6.46    |
| Custom Plant          | acre | 7.50    | Stance             | oz   | 1.25    |
| Custom Plant Air      | cwt  | 7.00    | HARVEST AIDS       |      |         |
| CUSTOM SPRAY          |      |         | Adios              | oz   | 1.29    |
| App by Air ( 3 gal)   | appl | 5.00    | Aim 2EC            | oz   | 5.65    |
| App by Air ( 5 gal)   | appl | 6.50    | Def/Folex          | pt   | 10.54   |
| App by Air (10 gal)   | appl | 9.00    | Defol 5            | gal  | 5.39    |
| Custom Spray Ground   | acre | 7.00    | Ethephon 6E        | pt   | 2.88    |
| DRYING                |      |         | Finish 6           | pt   | 9.61    |
| Dry Corn              | bu   | 0.19    | Folex 6EC          | pt   | 10.54   |
| Dry Grain Sorghum     | cwt  | 0.25    | Freefall SC        | oz   | 1.50    |
| Dry Peanuts           | ton  | 24.00   | Ginstar EC         | pt   | 26.44   |
| Dry Rice              | bu   | 0.40    | Gramoxone SL       | oz   | 0.15    |
| ERADICATION FEE       |      |         | Sharpen            | oz   | 6.45    |
| Eradication           | acre | 1.00    | Sodium Chlorate 5L | gal  | 5.39    |
| FERTILIZERS           |      |         | SuperBoll          | oz   | 0.19    |
| Agrotain Ultra        | pt   | 9.00    | Thidiazuron 4lb    | oz   | 1.50    |
| Amm Sulfate (21% N)   | cwt  | 13.43   | Tribufos 6lb       | pt   | 10.54   |
| Boron Plus            | pt   | 3.69    | HAULING            |      |         |
| DAP                   | cwt  | 21.52   | Haul Corn          | bu   | 0.23    |
| Fert 10-34-0          | cwt  | 22.25   | Haul Peanuts       | ton  | 14.50   |
| Fert 10-34-0          | gal  | 2.59    | Haul Rice          | bu   | 0.35    |
| Fert 11-37-0          | cwt  | 23.05   | Haul Sorghum       | bu   | 0.25    |
| Fert 33-0-0-12S       | cwt  | 18.00   | Haul Soybeans      | bu   | 0.27    |
| Fert 41-0-0-4         | cwt  | 13.50   | Haul Wheat         | bu   | 0.26    |
| Lime                  | ton  | 46.00   | HERBICIDES         |      |         |
| NBPT                  | pt   | 9.00    | 2,4-D Amine 4      | pt   | 2.40    |
| Phosphorus (46% P2O5) | cwt  | 18.75   | AAtrex 4L          | pt   | 2.12    |
| Potash (60% K2O)      | cwt  | 18.98   | AAtrex NINE-O      | lb   | 3.96    |
| Sulfur Plus           | pt   | 2.62    | Accent Q           | oz   | 21.51   |
| UAN (32% N)           | cwt  | 10.50   | Aim                | oz   | 5.65    |
| UAN (32%)             | gal  | 1.17    | Assure II          | oz   | 0.74    |
| UAN + Sulfur (28%)    | cwt  | 11.75   | Atrazine 4L        | pt   | 2.12    |
| UAN + Sulfur (28%)    | gal  | 1.31    | Axial XL           | oz   | 1.17    |
| Urea, Solid (46% N)   | cwt  | 14.19   | Axiom              | oz   | 1.92    |
| Zinc Plus             | pt   | 2.99    | Banvel             | pt   | 13.43   |
| FUNGICIDES            |      |         | Basagran           | pt   | 12.31   |
| Aframe                | oz   | 1.96    | Beyond             | oz   | 4.48    |
| Alfa Guard            | lb   | 1.48    | Bicep II Magnum    | qt   | 11.01   |
| Allegiance Flowable   | pt   | 48.89   | Bicep Lite Magnum  | pt   | 7.27    |
| Apron Maxx RTA        | oz   | 0.84    |                    |      |         |
| Artisan               | oz   | 1.00    |                    |      |         |
| Bravo Weather Stick   | pt   | 6.56    |                    |      |         |
| Captan 50 WP          | lb   | 4.93    |                    |      |         |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2018 (continued)

| ITEM NAME            | UNIT | PRICE   | ITEM NAME          | UNIT | PRICE   |
|----------------------|------|---------|--------------------|------|---------|
|                      |      | dollars |                    |      | dollars |
| Bolero               | pt   | 7.73    | Regiment           | oz   | 44.90   |
| Boundary             | pt   | 11.20   | Remedy Ultra       | pt   | 9.60    |
| Butyrac 175 (2,4-D)  | pt   | 3.29    | RiceBeaux          | pt   | 5.86    |
| Butyrac 200 (2,4-DB) | pt   | 4.34    | Riceshot           | pt   | 3.86    |
| Cadre                | oz   | 3.54    | Ricestar HT        | pt   | 24.35   |
| Canopy               | oz   | 2.74    | Roundup Power Max  | oz   | 0.17    |
| Caparol              | pt   | 4.60    | Roundup PowerMax   | pt   | 2.72    |
| Capreno              | oz   | 7.13    | Roundup WeatherMax | oz   | 0.26    |
| Clarity              | pt   | 11.55   | Roundup WeatherMax | pt   | 4.46    |
| Classic              | oz   | 17.18   | Scepter 70 DG      | oz   | 4.48    |
| Clearpath            | lb   | 61.26   | Select Max         | pt   | 12.64   |
| Cobra                | oz   | 1.72    | Sequence           | pt   | 5.95    |
| Command 3ME          | pt   | 19.93   | Sharpen            | oz   | 6.45    |
| Corvus               | oz   | 7.29    | Simazine           | pt   | 2.54    |
| Cotoran              | pt   | 6.42    | Stalwart           | pt   | 4.52    |
| Cotton Pro           | pt   | 3.52    | Stam 80 EDF        | lb   | 9.61    |
| Credit Extra         | pt   | 2.17    | Stam M4            | qt   | 7.80    |
| Dicamba              | pt   | 12.00   | Staple LX          | oz   | 7.63    |
| Direx                | pt   | 3.99    | Steadfast          | oz   | 12.26   |
| Diuron               | pt   | 3.90    | Storm              | pt   | 11.41   |
| Diuron 80 DF         | lb   | 5.09    | Strada Pro         | oz   | 7.27    |
| Diuron 80%           | lb   | 5.09    | Strongarm          | oz   | 56.42   |
| Dual II Magnum       | pt   | 14.83   | Superwham          | qt   | 9.18    |
| Dual Magnum          | pt   | 13.80   | Surpass EC         | qt   | 26.36   |
| Duet                 | pt   | 5.35    | Synchrony XP       | oz   | 12.71   |
| Envoke               | oz   | 102.89  | Touchdown Total    | qt   | 5.16    |
| Expert               | pt   | 4.39    | Treflan            | pt   | 3.52    |
| Facet L              | pt   | 15.25   | Tricor DF          | lb   | 15.82   |
| Fierce               | oz   | 7.54    | Trifluralin        | pt   | 3.52    |
| Finesse              | oz   | 16.06   | Ultra Blazer       | pt   | 10.31   |
| Flexstar             | pt   | 8.41    | Valor SX           | oz   | 4.57    |
| Fusilade DX          | oz   | 1.00    | Valor XLT          | oz   | 5.00    |
| Glyphosate 3lbs a.e  | pt   | 2.25    | Zidua              | oz   | 9.05    |
| Glyphosate 3lbs a.e  | oz   | 0.14    | INOCULANT          |      |         |
| Glystar Plus         | pt   | 2.17    | Optimize           | oz   | 2.14    |
| Goal 2XL             | pt   | 9.89    | Optimize LIFT      | oz   | 0.59    |
| Gramoxone SL 2.0     | oz   | 0.15    | Vault              | oz   | 1.73    |
| Grasp Xtra           | oz   | 1.53    | INSECTICIDES       |      |         |
| Halex GT             | pt   | 7.80    | Abamectin .15EC    | oz   | 0.96    |
| Halomax              | oz   | 21.44   | Acephate 90%       | lb   | 7.43    |
| Harmony Extra SG     | oz   | 13.79   | Acephate 90SP      | lb   | 7.43    |
| Harness XTRA         | pt   | 9.45    | Acramite-4SC       | oz   | 1.71    |
| Impact               | oz   | 24.90   | Admire Pro         | oz   | 1.70    |
| Leadoff              | oz   | 5.82    | Asana .66 XL       | oz   | 0.58    |
| Lexar                | pt   | 7.96    | Baythroid XL       | oz   | 2.65    |
| Liberty 280          | oz   | 0.60    | Belt               | oz   | 7.90    |
| Linex                | pt   | 9.28    | Bidrin 8EC         | oz   | 1.17    |
| Londax               | oz   | 18.08   | Bifenthrin         | oz   | 0.78    |
| Lorox                | lb   | 24.12   | Bifenture 2EC      | pt   | 12.36   |
| Metribuzin 75        | lb   | 15.87   | Brigade EC         | pt   | 11.85   |
| MSMA 6.6             | pt   | 2.90    | Capture LFR        | oz   | 2.28    |
| MSMA6 Plus           | pt   | 3.63    | Carbaryl 4L        | pt   | 5.85    |
| Newpath              | oz   | 3.83    | Carbine 50WG       | oz   | 5.93    |
| Osprey               | oz   | 3.61    | Centric 40WG       | oz   | 5.38    |
| Outlook              | pt   | 17.47   | Comite 1l          | pt   | 8.45    |
| Paraquat             | oz   | 0.28    | Confirm 2F         | oz   | 2.06    |
| Parazone 3SL         | oz   | 0.28    | Diamond .83EC      | pt   | 22.36   |
| Permit               | oz   | 22.43   | Diamond .83EC      | oz   | 1.40    |
| Poast                | pt   | 12.77   | Dimethoate 4E      | pt   | 5.31    |
| Prefix               | pt   | 6.53    | Dimilin 2L         | oz   | 1.45    |
| Prowl 3.3 EC         | pt   | 6.07    | Dipel DF           | lb   | 13.13   |
| Pursuit              | oz   | 3.51    | Dipel ES           | pt   | 4.89    |
| Quinstar 4L          | oz   | 1.60    | Endigo ZC          | pt   | 24.86   |
| Raptor               | oz   | 4.38    | Force 3G           | lb   | 6.03    |
| RealmQ               | oz   | 4.97    | Gaucha 600         | oz   | 2.35    |
| RebelEx              | oz   | 2.67    | Hero               | pt   | 25.77   |
| Reflex               | pt   | 6.52    | Imidacloprid 4F    | oz   | 0.78    |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2018 (continued)

| ITEM NAME             | UNIT  | PRICE   | ITEM NAME             | UNIT   | PRICE   |
|-----------------------|-------|---------|-----------------------|--------|---------|
|                       |       | dollars |                       |        | dollars |
| Imidan 70 WSB         | oz    | 0.67    | Peanut Seed           | lb     | 0.84    |
| IncidentalPestTrt \$8 | acre  | 8.00    | Rice Clearfield       | lb     | 0.95    |
| IncidentalPestTrt\$22 | acre  | 22.00   | Rice Clrflld Hyb Trt  | lb     | 5.55    |
| IncidentalPestTrt\$30 | acre  | 30.00   | Rice Conv Hyb Trt     | lb     | 5.66    |
| Intrepid 2F           | oz    | 2.00    | Rice Seed CF (Levees) | lb     | 0.95    |
| Intruder 70WSP        | oz    | 9.71    | Rice Seed CFH (Levee) | lb     | 1.78    |
| Karate Z              | oz    | 2.74    | Rice Seed Conv.       | lb     | 0.28    |
| Lambda                | oz    | 1.04    | Rice Seed Cv (Levees) | lb     | 0.28    |
| Lannate LV            | pt    | 10.88   | Rice Seed CvH (Levee) | lb     | 1.66    |
| Leverage 2.7          | oz    | 2.17    | Rice Seed Trt/Insect  | lbseed | 0.23    |
| Lorsban 15G           | lb    | 2.35    | Sorghum Concept       | lb     | 2.57    |
| Lorsban 4E            | pt    | 6.10    | Sorghum Concept+ Po   | lb     | 3.92    |
| Macho                 | oz    | 0.62    | Soybean Seed LL       | lb     | 1.28    |
| Malathion 5E          | pt    | 4.09    | Soybean Seed RR2      | lb     | 1.51    |
| Malathion 8E          | pt    | 5.50    | Soybean Seed RR2X     | lb     | 1.47    |
| Mustang Max           | oz    | 1.34    | Wheat Seed Private    | lb     | 0.29    |
| Nuprid 4F             | oz    | 0.88    | SOIL TEST             |        |         |
| Oberon 4 SC           | pt    | 59.84   | Soil Test             | acre   | 10.00   |
| Pounce 25WP           | lb    | 14.13   | SURVEY & MARK LEVEES  |        |         |
| Prevathon             | oz    | 1.32    | Survey & Mark Levees  | acre   | 4.50    |
| Radiant               | oz    | 6.82    | Survey & Mark Levees  | acre   | 4.50    |
| Sevin 4F              | pt    | 6.24    | TECHNOLOGY FEE        |        |         |
| Sevin XLR Plus        | qt    | 13.23   | W3RF Cot Tech Fee     | thous  | 1.45    |
| Sivanto Prime         | oz    | 2.55    |                       |        |         |
| Transform WG          | oz    | 8.18    |                       |        |         |
| IRRIGATION SUPPLIES   |       |         |                       |        |         |
| Roll-Out Pipe         | ft    | 0.25    |                       |        |         |
| SEED/PLANTS           |       |         |                       |        |         |
| Corn Seed BtRR        | thous | 3.63    |                       |        |         |
| Corn Seed Conv.       | thous | 2.89    |                       |        |         |
| Corn Seed RR2         | thous | 3.24    |                       |        |         |
| Cotton Seed GLB2      | thous | 3.10    |                       |        |         |
| Cotton Seed W3RF      | thous | 0.73    |                       |        |         |

Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2018

| ITEM NAME         | UNIT | PRICE   |
|-------------------|------|---------|
|                   |      | dollars |
| FUEL TYPES        |      |         |
| Diesel Fuel       | gal  | 1.80    |
| Gasoline          | gal  | 2.10    |
| LP Gas            | gal  | 1.65    |
| INTEREST RATES    |      |         |
| Short-term        | %    | 4.75    |
| Intermediate-term | %    | 5.00    |

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2018

| Item name           | Unit                              | Wage Rate |
|---------------------|-----------------------------------|-----------|
| OPERATOR LABOR      | hour                              | 13.51     |
| 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, 2018

| Crop          | unit | Futures Contract Month | Futures Contract Price <sup>a</sup> | Basis <sup>b</sup> | Forward Contract Price <sup>c</sup> | Loan Rate <sup>d</sup> | Budget Price <sup>e</sup> |
|---------------|------|------------------------|-------------------------------------|--------------------|-------------------------------------|------------------------|---------------------------|
| Corn          | bu   | Dec '18                | 3.96                                | -0.20              | 3.76                                | 2.10                   | 3.76                      |
| Cotton Lint   | lb   | Dec '18                | 0.6788                              | -0.0181            | 0.6607                              | 0.52                   | 0.6607                    |
| Cottonseed    | lb   |                        |                                     |                    |                                     |                        | 0.10 <sup>f</sup>         |
| Grain Sorghum | bu   |                        |                                     |                    | 3.57                                | 2.02                   | 3.57                      |
| Peanuts       | ton  |                        |                                     |                    | 385.00                              | 355.00                 | 385.00                    |
| Soybeans      | bu   | Nov '18                | 9.83                                | +0.07              | 9.90                                | 5.21                   | 9.90                      |
| Rice          | bu   | Nov '18                | 5.17                                | -0.27              | 4.90                                | 2.96                   | 4.90                      |
| Wheat         | bu   | Jul '18                | 4.88                                | -0.17              | 4.71                                | 2.76                   | 4.71                      |

<sup>a</sup> Average of the daily closing futures contract prices during the first 5 trading days in October 2017 for the stated contract months.

<sup>b</sup> Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2017 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

<sup>d</sup> Average Mississippi County CCC Loan Rate for 2017 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2017 Farm-stored Loan Rate for long grain rough rice. National 2018 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

<sup>e</sup> Price used in MSU Extension Service Planning Budgets.

<sup>f</sup> Cottonseed price is the average marketing year price over the years 2007-2016.



Appendix Table 8. Estimated costs for field operations, per acre  
 Cotton irrigated with center pivot  
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |       |       |       |       |       | FIXED<br>COST | TOTAL<br>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  |       |       | 0.03  | 1.10          | 1.10          |
| Apply Water                   |               |                       |       |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |       |       | 0.15  |       |       |       | 0.15          | 0.15          |
| Apply Water                   |               |                       |       |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |       |       | 0.20  |       |       |       | 0.20          | 0.20          |
| Apply Water                   |               |                       |       |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |       |       | 0.15  |       |       |       | 0.15          | 0.15          |
| Pivot, 1/4 CP                 | each          |                       |       | 13.48 |       |       |       | 0.27  | 13.75         | 54.09         |
| Well & Pump, 1/4 CP           | each          |                       |       | 3.50  |       |       |       | 0.07  | 3.57          | 10.35         |
| Engine, 1/4 CP, 65            | each          |                       |       |       |       |       |       |       |               | 9.99          |
| June Irr. 3app@.75"           | ac-in         |                       | 6.05  | 1.40  |       |       |       | 0.15  | 7.60          | 7.60          |
| July Irr. 4app@.75"           | ac-in         |                       | 8.06  | 1.87  |       |       |       | 0.16  | 10.09         | 10.09         |
| Aug Irr. 3app@.75"            | ac-in         |                       | 6.05  | 1.40  |       |       |       | 0.09  | 7.54          | 7.54          |
| TOTALS                        |               | 0.00                  | 20.16 | 21.65 | 1.84  | 0.00  | 0.78  | 44.43 | 74.43         | 118.86        |

Note: Cost of production estimates are based on 2017 input prices.

Appendix Table 9. Estimated costs for field operations, per acre  
 Irrigation with a 1/4-mile center pivot system  
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |      |       |       |       |       |       | FIXED<br>COST | TOTAL<br>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  |       |       | 0.03  | 1.10          | 1.10          |
| Apply Water                   |               |                       |      |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |      |       | 0.15  |       |       |       | 0.15          | 0.15          |
| Apply Water                   |               |                       |      |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |      |       | 0.20  |       |       |       | 0.20          | 0.20          |
| Apply Water                   |               |                       |      |       |       |       |       |       |               |               |
| IRRIGATE LABOR                | hour          |                       |      |       | 0.15  |       |       |       | 0.15          | 0.15          |
| Pivot, 1/4 CP                 | each          |                       |      | 13.48 |       |       |       | 0.27  | 13.75         | 54.09         |
| Well & Pump, 1/4 CP           | each          |                       |      | 3.50  |       |       |       | 0.07  | 3.57          | 10.35         |
| Engine, 1/4 CP, 65            | each          |                       |      |       |       |       |       |       |               | 9.99          |
| June Irr. 3app@.75"           | ac-in         |                       | 6.05 | 1.40  |       |       |       | 0.15  | 7.60          | 7.60          |
| July Irr. 4app@.75"           | ac-in         |                       | 8.06 | 1.87  |       |       |       | 0.16  | 10.09         | 10.09         |
| Aug Irr. 3app@.75"            | ac-in         |                       | 6.05 | 1.40  |       |       |       | 0.09  | 7.54          | 7.54          |
| TOTALS                        |               |                       | 0.00 | 20.16 | 21.65 | 1.84  | 0.00  | 0.78  | 44.43         | 74.43         |

Note: Cost of production estimates are based on 2017 input prices.

Appendix Table 10. Estimated costs for field operations, per acre  
 Peanuts irrigated with a roll-out pipe  
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2018

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | -----DIRECT COST----- |       |      |       |       |       |       | FIXED<br>COST | TOTAL<br>COST |       |
|-------------------------------|---------------|-----------------------|-------|------|-------|-------|-------|-------|---------------|---------------|-------|
|                               |               | OP INPUT              | FUEL  | R&M  | LABOR | LEASE | INTER | TOTAL |               |               |       |
| -----dollars-----             |               |                       |       |      |       |       |       |       |               |               |       |
| Land Plane                    | 50'x16'       |                       | 0.67  | 0.31 | 0.51  |       |       | 0.07  | 1.56          | 1.58          | 3.14  |
| Set Up Engine                 |               |                       |       |      |       |       |       |       |               |               |       |
| IRRIGATE LABOR                | hour          |                       |       |      | 0.23  |       |       | 0.01  | 0.24          |               | 0.24  |
| Ditcher (1m/160a)             |               |                       | 0.15  | 0.06 | 0.13  |       |       | 0.01  | 0.35          | 0.31          | 0.66  |
| Roll-Out Pipe                 | ft            | 8.25                  |       |      |       |       |       | 0.16  | 8.41          |               | 8.41  |
| Lay Roll-out Pipe             |               |                       |       |      |       |       |       |       |               |               |       |
| Pipe Spool 160ac              | 1/4m roll     |                       | 0.20  | 0.09 | 0.40  |       |       | 0.01  | 0.70          | 0.66          | 1.36  |
| IRRIGATE LABOR                | hour          |                       |       |      | 1.81  |       |       | 0.04  | 1.85          |               | 1.85  |
| 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     |                       | 0.30  | 0.13 | 0.59  |       |       | 0.01  | 1.03          | 0.98          | 2.01  |
| Land Forming (\$450)          | each          |                       |       |      |       |       |       |       |               | 31.93         | 31.93 |
| Well & Pump, Furrow           | each          |                       |       | 2.96 |       |       |       | 0.06  | 3.02          | 8.74          | 11.76 |
| Main Line Pipe                | each          |                       |       |      |       |       |       |       |               | 4.32          | 4.32  |
| Engine, RPF, PNUT             | each          |                       |       |      |       |       |       |       |               | 8.43          | 8.43  |
| 1st July Irrigation           | ac-in         |                       | 4.40  | 0.98 |       |       |       | 0.09  | 5.47          |               | 5.47  |
| 2nd Aug Irrigation            | ac-in         |                       | 4.40  | 0.98 |       |       |       | 0.06  | 5.44          |               | 5.44  |
| 2nd Aug Irrigation            | ac-in         |                       | 4.40  | 0.98 |       |       |       | 0.06  | 5.44          |               | 5.44  |
| 1st Sep Irrigation            | ac-in         |                       | 4.40  | 0.98 |       |       |       | 0.04  | 5.42          |               | 5.42  |
| TOTALS                        |               | 8.25                  | 18.92 | 7.47 | 4.59  | 0.00  |       | 0.62  | 39.85         | 56.95         | 96.80 |

Note: Cost of production estimates are based on 2017 input prices.



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