

**PEANUTS
2018
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2017-07**

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.

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 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 peanut yields that may be expected in a given year. Budget yields are tempered with unpublished research and judgments of the commodity committee. Producers should use yield estimates that are reflective of their own operation.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. The price used in the budgets is the higher of the loan rate or the best estimate of a contract price for the following growing season. Industry peanut buyers are polled to estimate a contract price.

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.

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.

Irrigation Costs

Estimated costs of a ¼ mile center pivot irrigation system is presented in Appendix Table 8. 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.

Enterprise Budgets

Table 1.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR | |
|--|-----------------|--------------------|-----------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|------|
| | | | | | | -----hours----- | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | | |
| Sprayer 600-750gal Glyphosate 3lbs a.e | 60' 175hp 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 Dual II Magnum | 60' 175hp pt | | 0.017 | 1.00 | May | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Valor SX | oz | | | | | 3.0000 | | | | | |
| Sprayer 600-750gal Acephate 90% | 60' 175hp lb | | 0.017 | 0.25 | May | 0.1375 | | 0.00 | 0.00 | 0.00 | |
| Sprayer 600-750gal Storm | 60' 175hp 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 Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Jun | 1.5000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Aframe | 60' 175hp oz | | 0.017 | 1.00 | Jul | 18.0000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Butyrac 200 (2,4-DB) | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | | |
| Sprayer 600-750gal Select Max | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | | |
| Sprayer 600-750gal Aframe | 60' 175hp oz | | 0.017 | 1.00 | Aug | 18.0000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Aug | 1.5000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.08 | 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 1.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 | -226 | -209 | -192 | -175 | -157 | -140 | -123 | -105 | -88 | -71 |
| | | | -358 | -340 | -323 | -306 | -288 | -271 | -254 | -236 | -219 | -202 | -184 |
| 60 | 1.08 | ton | -197 | -176 | -156 | -135 | -114 | -93 | -72 | -52 | -31 | -10 | 10 |
| | | | -311 | -290 | -270 | -249 | -228 | -207 | -186 | -166 | -145 | -124 | -103 |
| 70 | 1.26 | ton | -151 | -126 | -102 | -78 | -54 | -29 | -5 | 18 | 42 | 67 | 91 |
| | | | -264 | -240 | -216 | -192 | -167 | -143 | -119 | -95 | -70 | -46 | -22 |
| 80 | 1.44 | ton | -104 | -76 | -49 | -21 | 6 | 34 | 61 | 89 | 117 | 144 | 172 |
| | | | -218 | -190 | -162 | -135 | -107 | -79 | -52 | -24 | 3 | 31 | 58 |
| 90 | 1.62 | ton | -57 | -26 | 4 | 35 | 66 | 98 | 129 | 160 | 191 | 222 | 253 |
| | | | -171 | -140 | -109 | -78 | -47 | -15 | 15 | 46 | 77 | 108 | 140 |
| 100 | 1.80 | ton | -11 | 23 | 58 | 92 | 127 | 161 | 196 | 231 | 265 | 300 | 335 |
| | | | -125 | -90 | -55 | -21 | 13 | 48 | 82 | 117 | 152 | 186 | 221 |
| 110 | 1.98 | ton | 35 | 73 | 111 | 149 | 187 | 225 | 264 | 302 | 340 | 378 | 416 |
| | | | -78 | -40 | -2 | 35 | 73 | 112 | 150 | 188 | 226 | 264 | 302 |
| 120 | 2.16 | ton | 81 | 123 | 165 | 206 | 248 | 289 | 331 | 373 | 414 | 456 | 497 |
| | | | -31 | 9 | 51 | 92 | 134 | 175 | 217 | 259 | 300 | 342 | 383 |
| 130 | 2.34 | ton | 128 | 173 | 218 | 263 | 308 | 353 | 398 | 443 | 488 | 533 | 579 |
| | | | 14 | 59 | 104 | 149 | 194 | 239 | 284 | 329 | 375 | 420 | 465 |
| 140 | 2.52 | ton | 175 | 223 | 272 | 320 | 369 | 417 | 466 | 514 | 563 | 611 | 660 |
| | | | 61 | 109 | 158 | 206 | 255 | 303 | 352 | 400 | 449 | 497 | 546 |
| 150 | 2.70 | ton | 221 | 273 | 325 | 377 | 429 | 481 | 533 | 585 | 637 | 689 | 741 |
| | | | 107 | 159 | 211 | 263 | 315 | 367 | 419 | 471 | 523 | 575 | 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 2.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR | |
|--|-----------------|--------------------|-----------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|------|
| | | | | | | -----hours----- | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | | |
| Sprayer 600-750gal Glyphosate 3lbs a.e | 60' 175hp 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 Dual II Magnum | 60' 175hp pt | | 0.017 | 1.00 | May | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Valor SX | oz | | | | | 3.0000 | | | | | |
| Sprayer 600-750gal Acephate 90% | 60' 175hp lb | | 0.017 | 0.25 | May | 0.1375 | | 0.00 | 0.00 | 0.00 | |
| Sprayer 600-750gal Storm | 60' 175hp 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 Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Jun | 1.5000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Aframe | 60' 175hp oz | | 0.017 | 1.00 | Jul | 18.0000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Butyrac 200 (2,4-DB) | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | | |
| Sprayer 600-750gal Select Max | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Jul | 1.0000 | | 0.01 | 0.02 | 0.01 | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | | |
| Sprayer 600-750gal Aframe | 60' 175hp oz | | 0.017 | 1.00 | Aug | 18.0000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp pt | | 0.017 | 1.00 | Aug | 1.5000 | | 0.01 | 0.02 | 0.01 | |
| Sprayer 600-750gal Bravo Weather Stick | 60' 175hp 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.08 | 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

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

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 3.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.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 3rd year. Lime cost prorated for application every 3rd year.

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

Table 3.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/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 0.046 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2018

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.08 | 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 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 3.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

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

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 4.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 3rd year. Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 4.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 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.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/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-------------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 0.046 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 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 | | | | | 1.3200 | | | | |
| Cleaning Peanuts | ton | | | | | 1.8700 | | | | |
| Peanut Dump Cart | 6-Row | MFWD 190 | 0.310 | 1.00 | Sep | | 0.31 | 0.31 | 0.31 | 0.24 |
| Irrigate Peanuts | acre | | | | Jan | 1.0000 | 0.07 | 0.07 | 0.46 | |
| TOTALS | | | | | | | 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 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 4.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/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.08 | 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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.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 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 4.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

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

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. 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----- | | | | | | | |
| 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 | 0.29 | 0.02 | 0.18 | 0.50 | 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 | 1.06 |
| 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 | | |
|----------------------|----------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|--------------|-------------|------------|------|-------|
| | | | 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 | | | | | |
| Agri-Dex | pt | 2.38 | Captan 50 WP | lb | 4.93 |
| Class Act NG | pt | 2.38 | Cotton Seed Trt. | acre | 20.00 |
| Crop Oil Conc. (Pet.) | pt | 2.74 | CruiserMaxx | oz | 4.25 |
| Crop Oil Conc. (Veg.) | pt | 2.61 | Dithane F-45 | qt | 7.81 |
| Dyne-A-Pak | pt | 4.73 | Enable 2F | oz | 1.97 |
| Herbimax | pt | 1.88 | Headline EC | oz | 2.63 |
| Induce | pt | 3.31 | Manzate 75 DF | lb | 4.86 |
| MSO | pt | 2.61 | Moncut 70 DF | lb | 32.81 |
| Penetrator Plus | pt | 3.50 | Propimax EC | pt | 12.64 |
| Prime Oil | pt | 2.35 | Prosaro | oz | 5.57 |
| Surfactant | pt | 3.28 | Provost | oz | 2.43 |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | Quadris | oz | 2.14 |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | Quadris Top | oz | 2.55 |
| Cotton Consultant | acre | 8.00 | Quadris Top SBX | oz | 2.75 |
| Peanut Consultant | acre | 9.25 | Quilt | pt | 18.55 |
| Rice Consultant | acre | 8.00 | Quilt XCEL | pt | 25.43 |
| Sorghum Consultant | acre | 6.00 | Ridomil Gold | oz | 6.42 |
| Soybeans Consultant | acre | 6.50 | Rovral 4F | pt | 14.90 |
| Wheat Consultant | acre | 5.50 | Stratego | pt | 17.50 |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | Stratego YLD | oz | 4.28 |
| App Fert by Air (Mi) | appl | 7.00 | Tilt 3.6 EC | oz | 0.75 |
| Custom Apply Fert | acre | 7.50 | Tilt/ Bravo SE | oz | 0.41 |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | Uniform | oz | 4.63 |
| CUSTOM PLANT | | | | | |
| Custom Plant | acre | 7.50 | GINNING | | |
| Custom Plant Air | cwt | 7.00 | Gin & Haul | lb | 0.11 |
| CUSTOM SPRAY | | | | | |
| App by Air (3 gal) | appl | 5.00 | GROWTH REGULATORS | | |
| App by Air (5 gal) | appl | 6.50 | Mepex | oz | 0.08 |
| App by Air (10 gal) | appl | 9.00 | Mepichlor 4.2% | oz | 0.07 |
| Custom Spray Ground | acre | 7.00 | Mepiquat | oz | 0.07 |
| DRYING | | | | | |
| Dry Corn | bu | 0.19 | Pentia | pt | 6.46 |
| Dry Grain Sorghum | cwt | 0.25 | Stance | oz | 1.25 |
| Dry Peanuts | ton | 24.00 | HARVEST AIDS | | |
| Dry Rice | bu | 0.40 | Adios | oz | 1.29 |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | Aim 2EC | oz | 5.65 |
| FERTILIZERS | | | | | |
| Agrotain Ultra | pt | 9.00 | Def/Folex | pt | 10.54 |
| Amm Sulfate (21% N) | cwt | 13.43 | Defol 5 | gal | 5.39 |
| Boron Plus | pt | 3.69 | Ethephon 6E | pt | 2.88 |
| DAP | cwt | 21.52 | Finish 6 | pt | 9.61 |
| Fert 10-34-0 | cwt | 22.25 | Folex 6EC | pt | 10.54 |
| Fert 10-34-0 | gal | 2.59 | Freefall SC | oz | 1.50 |
| Fert 11-37-0 | cwt | 23.05 | Ginstar EC | pt | 26.44 |
| Fert 33-0-0-12S | cwt | 18.00 | Gramoxone SL | oz | 0.15 |
| Fert 41-0-0-4 | cwt | 13.50 | Sharpen | oz | 6.45 |
| Lime | ton | 46.00 | Sodium Chlorate 5L | gal | 5.39 |
| NBPT | pt | 9.00 | SuperBoll | oz | 0.19 |
| Phosphorus (46% P2O5) | cwt | 18.75 | Thidiazuron 4lb | oz | 1.50 |
| Potash (60% K2O) | cwt | 18.98 | Tribufos 6lb | pt | 10.54 |
| Sulfur Plus | pt | 2.62 | HAULING | | |
| UAN (32% N) | cwt | 10.50 | Haul Corn | bu | 0.23 |
| UAN (32%) | gal | 1.17 | Haul Peanuts | ton | 14.50 |
| UAN + Sulfur (28%) | cwt | 11.75 | Haul Rice | bu | 0.35 |
| UAN + Sulfur (28%) | gal | 1.31 | Haul Sorghum | bu | 0.25 |
| Urea, Solid (46% N) | cwt | 14.19 | Haul Soybeans | bu | 0.27 |
| Zinc Plus | pt | 2.99 | Haul Wheat | bu | 0.26 |
| FUNGICIDES | | | | | |
| Aframe | oz | 1.96 | HERBICIDES | | |
| Alfa Guard | lb | 1.48 | 2,4-D Amine 4 | pt | 2.40 |
| Allegiance Flowable | pt | 48.89 | AAtrex 4L | pt | 2.12 |
| Apron Maxx RTA | oz | 0.84 | AAtrex NINE-O | lb | 3.96 |
| Artisan | oz | 1.00 | Accent Q | oz | 21.51 |
| Bravo Weather Stick | pt | 6.56 | Aim | oz | 5.65 |
| | | | Assure II | oz | 0.74 |
| | | | Atrazine 4L | pt | 2.12 |
| | | | Axial XL | oz | 1.17 |
| | | | Axiom | oz | 1.92 |
| | | | Banvel | pt | 13.43 |
| | | | Basagran | pt | 12.31 |
| | | | Beyond | oz | 4.48 |
| | | | Bicep II Magnum | qt | 11.01 |
| | | | Bicep Lite Magnum | pt | 7.27 |

(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 ^a | Basis ^b | Forward Contract Price ^c | Loan Rate ^d | Budget Price ^e |
|---------------|------|------------------------|-------------------------------------|--------------------|-------------------------------------|------------------------|---------------------------|
| 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 ^f |
| 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 |

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

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 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.

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

^d Average Mississippi County CCC Loan Rate for 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.

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2007-2016.

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

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|-------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Set Up Engine | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.27 | | | 0.01 | 0.28 | 0.28 |
| Maintenance | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.07 | | | 0.03 | 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.

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