

Peanuts 2019 Planning Budgets



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 2019 planning decisions. This would be a 1-year short-run decision. Decisions beyond 1 year, or long-run decisions, should be based on **“Returns Above Specified Expenses.”**

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2019 Planning Budgets

Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and Extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2018. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre. Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, and 13). The hours of annual use have been modified based on information collected from the cited studies (3, 4, 6, and 7). Repairs and maintenance as a percentage of new cost are estimated for the life of the equipment and include oil and lubricants (1, 4, and 6).

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of

operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

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

Estimates of Returns

It is difficult to estimate 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 operations.

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 (costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments). These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. You should, however, consider these items and factor them into the final budget for your own situation.

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.

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Table 1.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Bravo Weather Stick | pt | 6.88 | 5.5000 | 37.84 | _____ |
| Aframe | oz | 1.91 | 36.0000 | 68.76 | _____ |
| Tebuconazole 3.6 | oz | 0.71 | 7.2000 | 5.11 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.16 | 4.0000 | 8.64 | _____ |
| 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 | 12.71 | 1.0000 | 12.71 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.80 | 9.0000 | 16.20 | _____ |
| Acephate 90% | lb | 8.70 | 0.1375 | 1.20 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 125.0000 | 105.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.58 | 6.0000 | 15.48 | _____ |
| 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 | 38.00 | 0.3330 | 12.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.55 | 14.8000 | 8.14 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 14.23 | 1.6246 | 23.12 | _____ |
| Self-Propelled | hour | 14.23 | 0.1983 | 2.81 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1207 | 1.09 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | hour | 14.22 | 1.4583 | 20.74 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.60 | 17.5722 | 45.69 | _____ |
| Self-Propelled | gal | 2.60 | 1.7850 | 4.61 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 11.62 | 1.0000 | 11.62 | _____ |
| Tractors | acre | 9.36 | 1.0000 | 9.36 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | acre | 8.67 | 1.0000 | 8.67 | _____ |
| TOTAL DIRECT EXPENSES | | | | 547.88 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 45.28 | 1.0000 | 45.28 | _____ |
| Tractors | acre | 64.59 | 1.0000 | 64.59 | _____ |
| Self-Propelled | acre | 15.86 | 1.0000 | 15.86 | _____ |
| TOTAL FIXED EXPENSES | | | | 125.73 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 673.61 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| 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 | 111.71 | 1.0000 | 111.71 | _____ |
| HERBICIDES | acre | 89.85 | 1.0000 | 89.85 | _____ |
| INSECTICIDES | acre | 17.40 | 1.0000 | 17.40 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| ADJUVANTS | acre | 15.48 | 1.0000 | 15.48 | _____ |
| CLEANING | acre | 27.54 | 1.0000 | 27.54 | _____ |
| DRYING | acre | 25.92 | 1.0000 | 25.92 | _____ |
| CUSTOM LIME | acre | 12.65 | 1.0000 | 12.65 | _____ |
| INOCULANT | acre | 8.14 | 1.0000 | 8.14 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.2199 | 1.99 | _____ |
| OPERATOR LABOR | hour | 14.23 | 1.8229 | 25.93 | _____ |
| UNALLOCATED LABOR | hour | 14.22 | 1.4583 | 20.74 | _____ |
| DIESEL FUEL | gal | 2.60 | 19.3573 | 50.30 | _____ |
| REPAIR & MAINTENANCE | acre | 23.23 | 1.0000 | 23.23 | _____ |
| INTEREST ON OP. CAP. | acre | 8.67 | 1.0000 | 8.67 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 547.88 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 145.12 | _____ |
| TOTAL FIXED EXPENSES | | | | 125.73 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 673.61 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 19.39 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 8R-38 | MFWD 190 | 0.073 | 1.00 | May | | 0.07 | 0.07 | 0.07 | 0.05 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 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 | 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 | 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 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.10 | 3.43 | 3.43 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 |
| Glyphosate 3lbs a.e | pt | 8.64 | | | | | | 0.26 | 8.90 | 8.90 |
| Lime (Spread) | ton | 12.65 | | | | | | 0.38 | 13.03 | 13.03 |
| Bed-Rip/Disk Fold. | 8R-38 | | 1.86 | 0.53 | 1.87 | | | 0.11 | 4.37 | 3.51 |
| Peanut Plt&Pre Rigid | 8R-38 | | 3.07 | 2.63 | 4.18 | | | 0.25 | 10.13 | 8.74 |
| Peanut Seed | lb | 105.00 | | | | | | 2.63 | 107.63 | 107.63 |
| Optimize LIFT | oz | 8.14 | | | | | | 0.20 | 8.34 | 8.34 |
| Admire Pro | oz | 16.20 | | | | | | 0.41 | 16.61 | 16.61 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 |
| Dual II Magnum | pt | 14.83 | | | | | | 0.37 | 15.20 | 15.20 |
| Valor SX | oz | 13.71 | | | | | | 0.34 | 14.05 | 14.05 |
| Sprayer 600-750gal | 60' 175hp | | 0.10 | 0.05 | 0.13 | | | 0.01 | 0.29 | 0.35 |
| Acephate 90% | lb | 1.20 | | | | | | 0.03 | 1.23 | 1.23 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Storm | pt | 17.12 | | | | | | 0.34 | 17.46 | 17.46 |
| Cadre | oz | 14.16 | | | | | | 0.28 | 14.44 | 14.44 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.09 | 4.43 | 4.43 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.10 | 5.26 | 5.26 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.21 | 10.53 | 10.53 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Aframe | oz | 34.38 | | | | | | 0.52 | 34.90 | 34.90 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.07 | 4.41 | 4.41 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Select Max | pt | 12.71 | | | | | | 0.19 | 12.90 | 12.90 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Bravo Weather Stick | pt | 6.88 | | | | | | 0.10 | 6.98 | 6.98 |
| Tebuconazole 3.6 | oz | 5.11 | | | | | | 0.08 | 5.19 | 5.19 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Aframe | oz | 34.38 | | | | | | 0.34 | 34.72 | 34.72 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.10 | 10.42 | 10.42 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.05 | 10.37 | 10.37 |
| Peanut Dig/Invertor | 4R-38 | | 4.74 | 2.40 | 4.77 | | | 0.06 | 11.97 | 8.88 |
| Peanut Harvester | 4R-38 | | 28.14 | 12.84 | 23.94 | | | 0.32 | 65.24 | 72.87 |
| Dry Peanuts | ton | 25.92 | | | | | | 0.13 | 26.05 | 26.05 |
| Cleaning Peanuts | ton | 27.54 | | | | | | 0.14 | 27.68 | 27.68 |
| Peanut Dump Cart | 6-Row | | 7.88 | 2.58 | 7.94 | | | 0.09 | 18.49 | 15.87 |
| TOTALS | | 417.02 | 50.30 | 23.23 | 48.66 | 0.00 | 8.67 | 547.88 | 125.73 | 673.61 |

Note: Cost of production estimates are based on 2018 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, 2019

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 693.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 46.37 | 44.70 | 10.32 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 28.54 | 35.62 | 17.05 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 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 | 5.16 | 10.32 | 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 | 12.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.14 | 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 | 0.53 | 6.71 | 1.06 | 2.12 | 1.06 | 37.18 |
| 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 | 0.41 | 5.44 | 0.82 | 1.64 | 0.82 | 41.17 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 3.41 | 0.40 | 0.80 | 0.40 | 18.02 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 4.38 | 1.06 | 1.20 | 0.46 | 0.80 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.53 | 179.02 | 54.44 | 79.50 | 47.44 | 160.95 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -179.02 | -54.44 | -79.50 | -47.44 | 532.05 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -205.55 | -259.99 | -339.49 | -386.93 | 145.12 |

Note: Cost of production estimates are based on 2018 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, 2019

| PRODUCT | PERCENT | | | | | | | | | | PRODUCT PRICE | PERCENT | |
|---------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|---------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | | | |
| 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 | dollars | | | | | | | | | | | | |
| YIELD | ton | | | | | | | | | | | | |
| UNIT | | | | | | | | | | | | | |
| 50 | 0.90 | ton | -261 | -243 | -226 | -209 | -191 | -174 | -157 | -139 | -122 | -105 | -87 |
| | | | -386 | -369 | -352 | -334 | -317 | -300 | -282 | -265 | -248 | -230 | -213 |
| 60 | 1.08 | ton | -214 | -193 | -172 | -152 | -131 | -110 | -89 | -69 | -48 | -27 | -6 |
| | | | -340 | -319 | -298 | -277 | -257 | -236 | -215 | -194 | -173 | -153 | -132 |
| 70 | 1.26 | ton | -167 | -143 | -119 | -95 | -70 | -46 | -22 | 1 | 26 | 50 | 74 |
| | | | -293 | -269 | -245 | -220 | -196 | -172 | -148 | -123 | -99 | -75 | -51 |
| 80 | 1.44 | ton | -121 | -93 | -65 | -38 | -10 | 17 | 44 | 72 | 100 | 128 | 155 |
| | | | -247 | -219 | -191 | -163 | -136 | -108 | -80 | -53 | -25 | 2 | 30 |
| 90 | 1.62 | ton | -74 | -43 | -12 | 18 | 50 | 81 | 112 | 143 | 174 | 205 | 237 |
| | | | -200 | -169 | -138 | -106 | -75 | -44 | -13 | 17 | 49 | 80 | 111 |
| 100 | 1.80 | ton | -28 | 6 | 41 | 75 | 110 | 145 | 179 | 214 | 249 | 283 | 318 |
| | | | -153 | -119 | -84 | -49 | -15 | 19 | 54 | 88 | 123 | 157 | 192 |
| 110 | 1.98 | ton | 18 | 56 | 94 | 132 | 170 | 209 | 247 | 285 | 323 | 361 | 399 |
| | | | -107 | -69 | -31 | 7 | 45 | 83 | 121 | 159 | 197 | 235 | 273 |
| 120 | 2.16 | ton | 65 | 106 | 148 | 189 | 231 | 272 | 314 | 356 | 397 | 439 | 480 |
| | | | -60 | -19 | 22 | 64 | 105 | 147 | 188 | 230 | 271 | 313 | 355 |
| 130 | 2.34 | ton | 111 | 156 | 201 | 246 | 291 | 336 | 381 | 426 | 472 | 517 | 562 |
| | | | -14 | 30 | 76 | 121 | 166 | 211 | 256 | 301 | 346 | 391 | 436 |
| 140 | 2.52 | ton | 158 | 206 | 255 | 303 | 352 | 400 | 449 | 497 | 546 | 594 | 643 |
| | | | 32 | 81 | 129 | 178 | 226 | 275 | 323 | 372 | 420 | 469 | 517 |
| 150 | 2.70 | ton | 204 | 256 | 308 | 360 | 412 | 464 | 516 | 568 | 620 | 672 | 724 |
| | | | 79 | 131 | 183 | 235 | 287 | 339 | 391 | 442 | 494 | 546 | 598 |

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 2018 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Bravo Weather Stick | pt | 6.88 | 5.5000 | 37.84 | _____ |
| Aframe | oz | 1.91 | 36.0000 | 68.76 | _____ |
| Tebuconazole 3.6 | oz | 0.71 | 7.2000 | 5.11 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.16 | 4.0000 | 8.64 | _____ |
| 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 | 12.71 | 1.0000 | 12.71 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.80 | 9.0000 | 16.20 | _____ |
| Acephate 90% | lb | 8.70 | 0.1375 | 1.20 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 125.0000 | 105.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.58 | 6.0000 | 15.48 | _____ |
| 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 | 38.00 | 0.3330 | 12.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.55 | 14.8000 | 8.14 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 14.23 | 1.6876 | 24.02 | _____ |
| Self-Propelled | hour | 14.23 | 0.1983 | 2.81 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1527 | 1.38 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 14.22 | 1.5087 | 21.46 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.60 | 18.0359 | 46.88 | _____ |
| Self-Propelled | gal | 2.60 | 1.7850 | 4.61 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 12.09 | 1.0000 | 12.09 | _____ |
| Tractors | acre | 9.66 | 1.0000 | 9.66 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | acre | 8.83 | 1.0000 | 8.83 | _____ |
| TOTAL DIRECT EXPENSES | | | | 551.91 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 43.54 | 1.0000 | 43.54 | _____ |
| Tractors | acre | 66.68 | 1.0000 | 66.68 | _____ |
| Self-Propelled | acre | 15.86 | 1.0000 | 15.86 | _____ |
| TOTAL FIXED EXPENSES | | | | 126.08 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 677.99 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| 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 | 111.71 | 1.0000 | 111.71 | _____ |
| HERBICIDES | acre | 89.85 | 1.0000 | 89.85 | _____ |
| INSECTICIDES | acre | 17.40 | 1.0000 | 17.40 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| ADJUVANTS | acre | 15.48 | 1.0000 | 15.48 | _____ |
| CLEANING | acre | 27.54 | 1.0000 | 27.54 | _____ |
| DRYING | acre | 25.92 | 1.0000 | 25.92 | _____ |
| CUSTOM LIME | acre | 12.65 | 1.0000 | 12.65 | _____ |
| INOCULANT | acre | 8.14 | 1.0000 | 8.14 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.2519 | 2.28 | _____ |
| OPERATOR LABOR | hour | 14.23 | 1.8859 | 26.83 | _____ |
| UNALLOCATED LABOR | hour | 14.22 | 1.5087 | 21.46 | _____ |
| DIESEL FUEL | gal | 2.60 | 19.8209 | 51.49 | _____ |
| REPAIR & MAINTENANCE | acre | 24.00 | 1.0000 | 24.00 | _____ |
| INTEREST ON OP. CAP. | acre | 8.83 | 1.0000 | 8.83 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 551.91 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 141.09 | _____ |
| TOTAL FIXED EXPENSES | | | | 126.08 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 677.99 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 15.01 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Rigid | 8R-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 | 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 | 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 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.10 | 3.43 | | 3.43 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 | 2.58 |
| Glyphosate 3lbs a.e | pt | 8.64 | | | | | | 0.26 | 8.90 | | 8.90 |
| Lime (Spread) | ton | 12.65 | | | | | | 0.38 | 13.03 | | 13.03 |
| Bed-Rip/Disk Rigid | 8R-30 | | 3.53 | 0.98 | 3.56 | | | 0.20 | 8.27 | 6.45 | 14.72 |
| Peanut Plt&Pre Rigid | 8R-30 | | 3.88 | 3.48 | 5.29 | | | 0.32 | 12.97 | 11.37 | 24.34 |
| Peanut Seed | lb | 105.00 | | | | | | 2.63 | 107.63 | | 107.63 |
| Optimize LIFT | oz | 8.14 | | | | | | 0.20 | 8.34 | | 8.34 |
| Admire Pro | oz | 16.20 | | | | | | 0.41 | 16.61 | | 16.61 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 | 2.58 |
| Dual II Magnum | pt | 14.83 | | | | | | 0.37 | 15.20 | | 15.20 |
| Valor SX | oz | 13.71 | | | | | | 0.34 | 14.05 | | 14.05 |
| Sprayer 600-750gal | 60' 175hp | | 0.10 | 0.05 | 0.13 | | | 0.01 | 0.29 | 0.35 | 0.64 |
| Acephate 90% | lb | 1.20 | | | | | | 0.03 | 1.23 | | 1.23 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Storm | pt | 17.12 | | | | | | 0.34 | 17.46 | | 17.46 |
| Cadre | oz | 14.16 | | | | | | 0.28 | 14.44 | | 14.44 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.09 | 4.43 | | 4.43 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.10 | 5.26 | | 5.26 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.21 | 10.53 | | 10.53 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Aframe | oz | 34.38 | | | | | | 0.52 | 34.90 | | 34.90 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.07 | 4.41 | | 4.41 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Select Max | pt | 12.71 | | | | | | 0.19 | 12.90 | | 12.90 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Bravo Weather Stick | pt | 6.88 | | | | | | 0.10 | 6.98 | | 6.98 |
| Tebuconazole 3.6 | oz | 5.11 | | | | | | 0.08 | 5.19 | | 5.19 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Aframe | oz | 34.38 | | | | | | 0.34 | 34.72 | | 34.72 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.10 | 10.42 | | 10.42 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.05 | 10.37 | | 10.37 |
| Peanut Dig/Invertor | 4R-30 | | 6.00 | 3.04 | 6.04 | | | 0.08 | 15.16 | 11.26 | 26.42 |
| Peanut Harvester | 4R-30 | | 25.59 | 11.67 | 21.78 | | | 0.30 | 59.34 | 65.27 | 124.61 |
| Dry Peanuts | ton | 25.92 | | | | | | 0.13 | 26.05 | | 26.05 |
| Cleaning Peanuts | ton | 27.54 | | | | | | 0.14 | 27.68 | | 27.68 |
| Peanut Dump Cart | 6-Row | | 7.88 | 2.58 | 7.94 | | | 0.09 | 18.49 | 15.87 | 34.36 |
| TOTALS | | 417.02 | 51.49 | 24.00 | 50.57 | 0.00 | 8.83 | 551.91 | 126.08 | 677.99 | |

Note: Cost of production estimates are based on 2018 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, 2019

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 693.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 46.37 | 44.70 | 10.32 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 28.54 | 35.62 | 17.05 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 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 | 5.16 | 10.32 | 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 | 12.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.14 | 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 | 0.53 | 9.51 | 1.06 | 2.12 | 1.06 | 36.29 |
| 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 | 0.41 | 7.92 | 0.82 | 1.64 | 0.82 | 39.88 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 4.71 | 0.40 | 0.80 | 0.40 | 17.49 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 4.54 | 1.06 | 1.20 | 0.46 | 0.80 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.53 | 185.76 | 54.44 | 79.50 | 47.44 | 158.24 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -185.76 | -54.44 | -79.50 | -47.44 | 534.76 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -212.29 | -266.73 | -346.23 | -393.67 | 141.09 |

Note: Cost of production estimates are based on 2018 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, 2019

| PRODUCT | -----PERCENT----- | | | | | | | | | | -----PRODUCT PRICE----- | | | | | | | | | | | | |
|---------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 115 | 120 | 125 | 288.75 | 308.00 | 327.25 | 346.50 | 365.75 | 385.00 | 404.25 | 423.50 | 442.75 | 462.00 | 481.25 | | |
| 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 | -----dollars----- | | | | | | | | | | | | | | | | | | | | | | |
| YIELD | | | | | | | | | | | | | | | | | | | | | | | |
| UNIT | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 0.90 | ton | -265 | -247 | -230 | -213 | -195 | -178 | -161 | -143 | -126 | -109 | -91 | -391 | -373 | -356 | -339 | -321 | -304 | -269 | -252 | -235 | -218 |
| 60 | 1.08 | ton | -218 | -197 | -176 | -156 | -135 | -114 | -93 | -73 | -52 | -31 | -10 | -344 | -323 | -303 | -282 | -261 | -240 | -199 | -178 | -157 | -136 |
| 70 | 1.26 | ton | -171 | -147 | -123 | -99 | -74 | -50 | -26 | -2 | 22 | 46 | 70 | -298 | -273 | -249 | -225 | -201 | -176 | -128 | -104 | -79 | -55 |
| 80 | 1.44 | ton | -125 | -97 | -69 | -42 | -14 | 13 | 40 | 68 | 96 | 124 | 151 | -251 | -223 | -196 | -168 | -140 | -112 | -57 | -29 | -1 | 25 |
| 90 | 1.62 | ton | -78 | -47 | -16 | 14 | 45 | 77 | 108 | 139 | 170 | 201 | 233 | -204 | -173 | -142 | -111 | -80 | -48 | 13 | 44 | 75 | 107 |
| 100 | 1.80 | ton | -32 | 2 | 37 | 71 | 106 | 141 | 175 | 210 | 245 | 279 | 314 | -158 | -123 | -88 | -54 | -19 | 15 | 84 | 118 | 153 | 188 |
| 110 | 1.98 | ton | 14 | 52 | 90 | 128 | 166 | 205 | 243 | 281 | 319 | 357 | 395 | -111 | -73 | -35 | 2 | 40 | 78 | 155 | 193 | 231 | 269 |
| 120 | 2.16 | ton | 61 | 102 | 144 | 185 | 227 | 268 | 310 | 352 | 393 | 435 | 476 | -65 | -23 | 18 | 59 | 101 | 142 | 226 | 267 | 309 | 350 |
| 130 | 2.34 | ton | 107 | 152 | 197 | 242 | 287 | 332 | 377 | 422 | 468 | 513 | 558 | -18 | 26 | 71 | 116 | 161 | 206 | 296 | 341 | 386 | 432 |
| 140 | 2.52 | ton | 154 | 202 | 251 | 299 | 348 | 396 | 445 | 493 | 542 | 590 | 639 | 28 | 76 | 125 | 173 | 222 | 270 | 367 | 416 | 464 | 513 |
| 150 | 2.70 | ton | 200 | 252 | 304 | 356 | 408 | 460 | 512 | 564 | 616 | 668 | 720 | 74 | 126 | 178 | 230 | 282 | 334 | 438 | 490 | 542 | 594 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2018 input prices.

Table 3.A Estimated costs per acre
Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
All Areas, Mississippi, 2019

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Bravo Weather Stick | pt | 6.88 | 5.5000 | 37.84 | _____ |
| Aframe | oz | 1.91 | 36.0000 | 68.76 | _____ |
| Tebuconazole 3.6 | oz | 0.71 | 7.2000 | 5.11 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.16 | 4.0000 | 8.64 | _____ |
| 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 | 12.71 | 1.0000 | 12.71 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.80 | 9.0000 | 16.20 | _____ |
| Acephate 90% | lb | 8.70 | 0.1375 | 1.20 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 125.0000 | 105.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.58 | 6.0000 | 15.48 | _____ |
| 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 | 38.00 | 0.3330 | 12.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.55 | 14.8000 | 8.14 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 14.23 | 1.1856 | 16.87 | _____ |
| Self-Propelled | hour | 14.23 | 0.1983 | 2.81 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0804 | 0.73 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 14.23 | 1.1072 | 15.76 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.60 | 12.8051 | 33.28 | _____ |
| Self-Propelled | gal | 2.60 | 1.7850 | 4.61 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.26 | 1.0000 | 9.26 | _____ |
| Tractors | acre | 6.83 | 1.0000 | 6.83 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | | | | | |
| | acre | 8.46 | 1.0000 | 8.46 | _____ |
| TOTAL DIRECT EXPENSES | | | | 518.78 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 37.82 | 1.0000 | 37.82 | _____ |
| Tractors | acre | 47.12 | 1.0000 | 47.12 | _____ |
| Self-Propelled | acre | 15.86 | 1.0000 | 15.86 | _____ |
| TOTAL FIXED EXPENSES | | | | 100.80 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 619.58 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| 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 | 111.71 | 1.0000 | 111.71 | _____ |
| HERBICIDES | acre | 89.85 | 1.0000 | 89.85 | _____ |
| INSECTICIDES | acre | 17.40 | 1.0000 | 17.40 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| ADJUVANTS | acre | 15.48 | 1.0000 | 15.48 | _____ |
| CLEANING | acre | 27.54 | 1.0000 | 27.54 | _____ |
| DRYING | acre | 25.92 | 1.0000 | 25.92 | _____ |
| CUSTOM LIME | acre | 12.65 | 1.0000 | 12.65 | _____ |
| INOCULANT | acre | 8.14 | 1.0000 | 8.14 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1795 | 1.63 | _____ |
| OPERATOR LABOR | hour | 14.23 | 1.3840 | 19.68 | _____ |
| UNALLOCATED LABOR | hour | 14.23 | 1.1072 | 15.76 | _____ |
| DIESEL FUEL | gal | 2.60 | 14.5901 | 37.89 | _____ |
| REPAIR & MAINTENANCE | acre | 18.34 | 1.0000 | 18.34 | _____ |
| INTEREST ON OP. CAP. | acre | 8.46 | 1.0000 | 8.46 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 518.78 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 174.22 | _____ |
| TOTAL FIXED EXPENSES | | | | 100.80 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 619.58 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 73.42 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 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 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.10 | 3.43 | | 3.43 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 | 2.58 |
| Glyphosate 3lbs a.e | pt | 8.64 | | | | | | 0.26 | 8.90 | | 8.90 |
| Lime (Spread) | ton | 12.65 | | | | | | 0.38 | 13.03 | | 13.03 |
| Bed-Rip/Disk Fold. | 12R-38 | | 1.39 | 0.41 | 1.19 | | | 0.07 | 3.06 | 2.63 | 5.69 |
| Peanut Plt&Pre Fold. | 12R-38 | | 2.04 | 3.18 | 2.79 | | | 0.20 | 8.21 | 8.87 | 17.08 |
| Peanut Seed | lb | 105.00 | | | | | | 2.63 | 107.63 | | 107.63 |
| Optimize LIFT | oz | 8.14 | | | | | | 0.20 | 8.34 | | 8.34 |
| Admire Pro | oz | 16.20 | | | | | | 0.41 | 16.61 | | 16.61 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 | 2.58 |
| Dual II Magnum | pt | 14.83 | | | | | | 0.37 | 15.20 | | 15.20 |
| Valor SX | oz | 13.71 | | | | | | 0.34 | 14.05 | | 14.05 |
| Sprayer 600-750gal | 60' 175hp | | 0.10 | 0.05 | 0.13 | | | 0.01 | 0.29 | 0.35 | 0.64 |
| Acephate 90% | lb | 1.20 | | | | | | 0.03 | 1.23 | | 1.23 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Storm | pt | 17.12 | | | | | | 0.34 | 17.46 | | 17.46 |
| Cadre | oz | 14.16 | | | | | | 0.28 | 14.44 | | 14.44 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.09 | 4.43 | | 4.43 |
| Crop Oil Conc. (Veg.) | pt | 5.16 | | | | | | 0.10 | 5.26 | | 5.26 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.21 | 10.53 | | 10.53 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Aframe | oz | 34.38 | | | | | | 0.52 | 34.90 | | 34.90 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.07 | 4.41 | | 4.41 |
| Crop Oil Conc. (Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Select Max | pt | 12.71 | | | | | | 0.19 | 12.90 | | 12.90 |
| Crop Oil Conc. (Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 | 2.57 |
| Bravo Weather Stick | pt | 6.88 | | | | | | 0.10 | 6.98 | | 6.98 |
| Tebuconazole 3.6 | oz | 5.11 | | | | | | 0.08 | 5.19 | | 5.19 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Aframe | oz | 34.38 | | | | | | 0.34 | 34.72 | | 34.72 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.10 | 10.42 | | 10.42 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 | 2.56 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.05 | 10.37 | | 10.37 |
| Peanut Dig/Invertor | 6R-38 | | 3.15 | 1.63 | 3.18 | | | 0.04 | 8.00 | 6.49 | 14.49 |
| Peanut Harvester | 6R-38 | | 18.82 | 8.29 | 16.01 | | | 0.22 | 43.34 | 51.08 | 94.42 |
| Dry Peanuts | ton | 25.92 | | | | | | 0.13 | 26.05 | | 26.05 |
| Cleaning Peanuts | ton | 27.54 | | | | | | 0.14 | 27.68 | | 27.68 |
| Peanut Dump Cart | 6-Row | | 7.88 | 2.58 | 7.94 | | | 0.09 | 18.49 | 15.87 | 34.36 |
| TOTALS | | 417.02 | 37.89 | 18.34 | 37.07 | 0.00 | 8.46 | 518.78 | 100.80 | 619.58 | |

Note: Cost of production estimates are based on 2018 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, 2019

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 693.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 46.37 | 44.70 | 10.32 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 28.54 | 35.62 | 17.05 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 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 | 5.16 | 10.32 | 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 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.54 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.14 | 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 | 0.53 | 4.64 | 1.06 | 2.12 | 1.06 | 27.66 |
| 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 | 0.41 | 3.94 | 0.82 | 1.64 | 0.82 | 30.26 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 3.84 | 0.40 | 0.80 | 0.40 | 12.70 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 4.29 | 1.06 | 1.20 | 0.46 | 0.68 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.53 | 175.79 | 54.44 | 79.50 | 47.44 | 135.08 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -175.79 | -54.44 | -79.50 | -47.44 | 557.92 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.53 | -202.32 | -256.76 | -336.26 | -383.70 | 174.22 |

Note: Cost of production estimates are based on 2018 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, 2019

| PRODUCT | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| | 288.75 | 308.00 | 327.25 | 346.50 | 365.75 | 385.00 | 404.25 | 423.50 | 442.75 | 462.00 | 481.25 | | |
| PERCENT | dollars | | | | | | | | | | | | |
| YIELD | dollars | | | | | | | | | | | | |
| UNIT | dollars | | | | | | | | | | | | |
| 50 | 0.90 | ton | -232 | -214 | -197 | -180 | -162 | -145 | -128 | -110 | -93 | -76 | -58 |
| | | | -332 | -315 | -298 | -280 | -263 | -246 | -228 | -211 | -194 | -176 | -159 |
| 60 | 1.08 | ton | -185 | -164 | -143 | -123 | -102 | -81 | -60 | -39 | -19 | 1 | 22 |
| | | | -286 | -265 | -244 | -223 | -203 | -182 | -161 | -140 | -119 | -99 | -78 |
| 70 | 1.26 | ton | -138 | -114 | -90 | -66 | -41 | -17 | 6 | 30 | 55 | 79 | 103 |
| | | | -239 | -215 | -191 | -166 | -142 | -118 | -94 | -69 | -45 | -21 | 2 |
| 80 | 1.44 | ton | -92 | -64 | -36 | -9 | 18 | 46 | 74 | 101 | 129 | 157 | 184 |
| | | | -193 | -165 | -137 | -109 | -82 | -54 | -26 | 1 | 28 | 56 | 84 |
| 90 | 1.62 | ton | -45 | -14 | 16 | 47 | 79 | 110 | 141 | 172 | 203 | 235 | 266 |
| | | | -146 | -115 | -84 | -52 | -21 | 9 | 40 | 71 | 103 | 134 | 165 |
| 100 | 1.80 | ton | 0 | 35 | 70 | 104 | 139 | 174 | 208 | 243 | 278 | 312 | 347 |
| | | | -99 | -65 | -30 | 4 | 38 | 73 | 108 | 142 | 177 | 212 | 246 |
| 110 | 1.98 | ton | 47 | 85 | 123 | 161 | 200 | 238 | 276 | 314 | 352 | 390 | 428 |
| | | | -53 | -15 | 23 | 61 | 99 | 137 | 175 | 213 | 251 | 289 | 327 |
| 120 | 2.16 | ton | 94 | 135 | 177 | 218 | 260 | 302 | 343 | 385 | 426 | 468 | 509 |
| | | | -6 | 34 | 76 | 118 | 159 | 201 | 242 | 284 | 326 | 367 | 409 |
| 130 | 2.34 | ton | 140 | 185 | 230 | 275 | 320 | 366 | 411 | 456 | 501 | 546 | 591 |
| | | | 39 | 85 | 130 | 175 | 220 | 265 | 310 | 355 | 400 | 445 | 490 |
| 140 | 2.52 | ton | 187 | 235 | 284 | 332 | 381 | 429 | 478 | 526 | 575 | 623 | 672 |
| | | | 86 | 135 | 183 | 232 | 280 | 329 | 377 | 426 | 474 | 523 | 571 |
| 150 | 2.70 | ton | 233 | 285 | 337 | 389 | 441 | 493 | 545 | 597 | 649 | 701 | 753 |
| | | | 133 | 185 | 237 | 289 | 341 | 393 | 445 | 497 | 548 | 600 | 652 |

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 2018 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, 2019

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Bravo Weather Stick | pt | 6.88 | 5.5000 | 37.84 | _____ |
| Aframe | oz | 1.91 | 36.0000 | 68.76 | _____ |
| Tebuconazole 3.6 | oz | 0.71 | 7.2000 | 5.11 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.16 | 4.0000 | 8.64 | _____ |
| 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 | 12.71 | 1.0000 | 12.71 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.80 | 9.0000 | 16.20 | _____ |
| Acephate 90% | lb | 8.70 | 0.1375 | 1.20 | _____ |
| 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 | 2.58 | 6.0000 | 15.48 | _____ |
| 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 | 38.00 | 0.3330 | 12.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.55 | 14.8000 | 8.14 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 14.23 | 1.2642 | 17.99 | _____ |
| Self-Propelled | hour | 14.23 | 0.1983 | 2.81 | _____ |
| 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 | 14.23 | 1.1072 | 15.76 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.60 | 13.5313 | 35.16 | _____ |
| Self-Propelled | gal | 2.60 | 1.7850 | 4.61 | _____ |
| Irrigate Peanuts | gal | 2.60 | 9.7755 | 25.40 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.46 | 1.0000 | 9.46 | _____ |
| Tractors | acre | 7.23 | 1.0000 | 7.23 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| Irrigate Peanuts | acre | 6.88 | 1.0000 | 6.88 | _____ |
| INTEREST ON OP. CAP. | acre | 9.45 | 1.0000 | 9.45 | _____ |
| TOTAL DIRECT EXPENSES | | | | 579.31 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 38.96 | 1.0000 | 38.96 | _____ |
| Tractors | acre | 49.85 | 1.0000 | 49.85 | _____ |
| Self-Propelled | acre | 15.86 | 1.0000 | 15.86 | _____ |
| Irrigate Peanuts | acre | 61.50 | 1.0000 | 61.50 | _____ |
| TOTAL FIXED EXPENSES | | | | 166.17 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 745.48 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| 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 | 111.71 | 1.0000 | 111.71 | _____ |
| HERBICIDES | acre | 89.85 | 1.0000 | 89.85 | _____ |
| INSECTICIDES | acre | 17.40 | 1.0000 | 17.40 | _____ |
| IRRIGATION SUPPLIES | acre | 8.25 | 1.0000 | 8.25 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| ADJUVANTS | acre | 15.48 | 1.0000 | 15.48 | _____ |
| CLEANING | acre | 33.66 | 1.0000 | 33.66 | _____ |
| DRYING | acre | 31.68 | 1.0000 | 31.68 | _____ |
| CUSTOM LIME | acre | 12.65 | 1.0000 | 12.65 | _____ |
| INOCULANT | acre | 8.14 | 1.0000 | 8.14 | _____ |
| 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 | 14.23 | 1.4625 | 20.80 | _____ |
| UNALLOCATED LABOR | hour | 14.23 | 1.1072 | 15.76 | _____ |
| DIESEL FUEL | gal | 2.60 | 25.0919 | 65.17 | _____ |
| REPAIR & MAINTENANCE | acre | 25.82 | 1.0000 | 25.82 | _____ |
| INTEREST ON OP. CAP. | acre | 9.45 | 1.0000 | 9.45 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 579.31 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 267.69 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 166.17 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 745.48 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 101.52 | _____ |

Note: Cost of production estimates are based on 2018 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, 2019

| 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 2018 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, 2019

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.10 | 3.43 | 3.43 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 |
| Glyphosate 3lbs a.e | pt | 8.64 | | | | | | 0.26 | 8.90 | 8.90 |
| Lime (Spread) | ton | 12.65 | | | | | | 0.38 | 13.03 | 13.03 |
| Bed-Rip/Disk Fold. | 12R-38 | | 1.39 | 0.41 | 1.19 | | | 0.07 | 3.06 | 2.63 |
| Peanut Plt&Pre Fold. | 12R-38 | | 2.04 | 3.18 | 2.79 | | | 0.20 | 8.21 | 8.87 |
| Peanut Seed | lb | 105.00 | | | | | | 2.63 | 107.63 | 107.63 |
| Optimize LIFT | oz | 8.14 | | | | | | 0.20 | 8.34 | 8.34 |
| Admire Pro | oz | 16.20 | | | | | | 0.41 | 16.61 | 16.61 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.03 | 1.17 | 1.41 |
| Dual II Magnum | pt | 14.83 | | | | | | 0.37 | 15.20 | 15.20 |
| Valor SX | oz | 13.71 | | | | | | 0.34 | 14.05 | 14.05 |
| Sprayer 600-750gal | 60' 175hp | | 0.10 | 0.05 | 0.13 | | | 0.01 | 0.29 | 0.35 |
| Acephate 90% | lb | 1.20 | | | | | | 0.03 | 1.23 | 1.23 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Storm | pt | 17.12 | | | | | | 0.34 | 17.46 | 17.46 |
| Cadre | oz | 14.16 | | | | | | 0.28 | 14.44 | 14.44 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.09 | 4.43 | 4.43 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.10 | 5.26 | 5.26 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.21 | 10.53 | 10.53 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Aframe | oz | 34.38 | | | | | | 0.52 | 34.90 | 34.90 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | | | | | | 0.07 | 4.41 | 4.41 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Select Max | pt | 12.71 | | | | | | 0.19 | 12.90 | 12.90 |
| Crop Oil Conc.(Veg.) | pt | 5.16 | | | | | | 0.08 | 5.24 | 5.24 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.02 | 1.16 | 1.41 |
| Bravo Weather Stick | pt | 6.88 | | | | | | 0.10 | 6.98 | 6.98 |
| Tebuconazole 3.6 | oz | 5.11 | | | | | | 0.08 | 5.19 | 5.19 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Aframe | oz | 34.38 | | | | | | 0.34 | 34.72 | 34.72 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.10 | 10.42 | 10.42 |
| Sprayer 600-750gal | 60' 175hp | | 0.41 | 0.20 | 0.53 | | | 0.01 | 1.15 | 1.41 |
| Bravo Weather Stick | pt | 10.32 | | | | | | 0.05 | 10.37 | 10.37 |
| Peanut Dig/Invertor | 6R-38 | | 3.15 | 1.63 | 3.18 | | | 0.04 | 8.00 | 6.49 |
| Peanut Harvester | 6R-38 | | 18.82 | 8.29 | 16.01 | | | 0.22 | 43.34 | 51.08 |
| Dry Peanuts | ton | 31.68 | | | | | | 0.16 | 31.84 | 31.84 |
| Cleaning Peanuts | ton | 33.66 | | | | | | 0.17 | 33.83 | 33.83 |
| Peanut Dump Cart | 6-Row | | 7.88 | 2.58 | 7.94 | | | 0.09 | 18.49 | 15.87 |
| Irrigate Peanuts | acre | 8.25 | 27.28 | 7.48 | 4.65 | | | 0.93 | 48.59 | 65.37 |
| TOTALS | | 437.15 | 65.17 | 25.82 | 41.72 | 0.00 | 9.45 | 579.31 | 166.17 | 745.48 |

Note: Cost of production estimates are based on 2018 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, 2019

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 847.00 |
| -----dollars----- | | | | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 46.37 | 44.70 | 10.32 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 28.54 | 35.62 | 17.05 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 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 | 5.16 | 10.32 | 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 | 12.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.14 | 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 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 6.99 | 1.29 | 2.58 | 1.90 | 27.66 |
| 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 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 4.43 | 7.17 | 14.34 | 7.60 | 30.26 |
| REPAIR & MAINTENANCE | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 6.95 | 1.38 | 2.76 | 1.51 | 12.70 |
| INTEREST ON OP. CAP. | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 4.65 | 1.21 | 1.42 | 0.54 | 0.74 |
| TOTAL DIRECT EXPENSES | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.77 | 190.35 | 62.15 | 94.84 | 56.25 | 147.02 |
| NET INCOME | -1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -26.77 | -190.35 | -62.15 | -94.84 | -56.25 | 699.98 |
| NET INCOME TO DATE | -1.93 | -1.93 | -1.93 | -1.93 | -1.93 | -1.93 | -28.70 | -219.05 | -281.20 | -376.04 | -432.29 | 267.69 |

Note: Cost of production estimates are based on 2018 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, 2019

| PRODUCT | PERCENT | | | | | | | | | | PRODUCT PRICE | 462.00 | 481.25 |
|-------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | | | |
| Peanut Runner | 288.75 | 308.00 | 327.25 | 346.50 | 365.75 | 385.00 | 404.25 | 423.50 | 442.75 | 462.00 | 481.25 | | |
| -----dollars----- | | | | | | | | | | | | | |
| 50 | 1.10 | ton | -228 | -207 | -186 | -165 | -144 | -122 | -101 | -80 | -59 | -38 | -17 |
| | | | -395 | -373 | -352 | -331 | -310 | -289 | -267 | -246 | -225 | -204 | -183 |
| 60 | 1.32 | ton | -171 | -146 | -121 | -95 | -70 | -44 | -19 | 5 | 31 | 56 | 82 |
| | | | -338 | -312 | -287 | -261 | -236 | -211 | -185 | -160 | -134 | -109 | -83 |
| 70 | 1.54 | ton | -114 | -85 | -55 | -25 | 3 | 33 | 62 | 92 | 122 | 151 | 181 |
| | | | -281 | -251 | -221 | -192 | -162 | -132 | -103 | -73 | -43 | -14 | 15 |
| 80 | 1.76 | ton | -57 | -24 | 9 | 43 | 77 | 111 | 145 | 179 | 213 | 246 | 280 |
| | | | -224 | -190 | -156 | -122 | -88 | -54 | -20 | 13 | 46 | 80 | 114 |
| 90 | 1.98 | ton | -1 | 37 | 75 | 113 | 151 | 189 | 227 | 265 | 303 | 342 | 380 |
| | | | -167 | -129 | -90 | -52 | -14 | 23 | 61 | 99 | 137 | 175 | 213 |
| 100 | 2.20 | ton | 55 | 98 | 140 | 182 | 225 | 267 | 310 | 352 | 394 | 437 | 479 |
| | | | -110 | -67 | -25 | 16 | 59 | 101 | 143 | 186 | 228 | 270 | 313 |
| 110 | 2.42 | ton | 112 | 159 | 206 | 252 | 299 | 345 | 392 | 438 | 485 | 532 | 578 |
| | | | -53 | -6 | 39 | 86 | 133 | 179 | 226 | 272 | 319 | 365 | 412 |
| 120 | 2.64 | ton | 169 | 220 | 271 | 322 | 373 | 423 | 474 | 525 | 576 | 627 | 678 |
| | | | 3 | 54 | 105 | 156 | 206 | 257 | 308 | 359 | 410 | 461 | 511 |
| 130 | 2.86 | ton | 226 | 281 | 336 | 391 | 447 | 502 | 557 | 612 | 667 | 722 | 777 |
| | | | 60 | 115 | 170 | 225 | 280 | 335 | 390 | 446 | 501 | 556 | 611 |
| 140 | 3.08 | ton | 283 | 343 | 402 | 461 | 520 | 580 | 639 | 698 | 758 | 817 | 876 |
| | | | 117 | 176 | 236 | 295 | 354 | 414 | 473 | 532 | 591 | 651 | 710 |
| 150 | 3.30 | ton | 340 | 404 | 467 | 531 | 594 | 658 | 721 | 785 | 848 | 912 | 975 |
| | | | 174 | 238 | 301 | 365 | 428 | 492 | 555 | 619 | 682 | 746 | 809 |

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 2018 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, 2019

| 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 | 339,000 | 300 | 8 | 13.64 | 13.51 | 35.46 | 35.31 | 84.28 | 151.94 | 236.23 |
| Combine (300-349 hp) | 325 hp | 362,000 | 300 | 8 | 16.73 | 13.51 | 43.49 | 37.70 | 94.71 | 162.25 | 256.97 |
| Combine (350-399 hp) | 355 hp | 391,000 | 300 | 8 | 18.27 | 13.51 | 47.50 | 40.72 | 101.74 | 175.25 | 276.99 |
| Combine (400-449 hp) | 425 hp | 412,000 | 300 | 8 | 21.87 | 13.51 | 56.87 | 42.91 | 113.30 | 184.66 | 297.97 |
| Combine (450-499hp) | 475 hp | 434,000 | 300 | 8 | 24.44 | 13.51 | 63.56 | 45.20 | 122.28 | 194.52 | 316.81 |
| Tractor (20-39hp)CB | MFWD 30 | 25,500 | 600 | 8 | 1.54 | 13.51 | 4.01 | 0.79 | 18.32 | 5.29 | 23.61 |
| Tractor (20-39hp)RB | MFWD 30 | 20,400 | 600 | 8 | 1.54 | 13.51 | 4.01 | 0.63 | 18.16 | 4.23 | 22.39 |
| Tractor (40-59hp)CB | 2WD 50 | 29,400 | 600 | 8 | 2.57 | 13.51 | 6.69 | 0.91 | 21.12 | 6.10 | 27.22 |
| Tractor (40-59hp)CB | MFWD 50 | 39,500 | 600 | 8 | 2.57 | 13.51 | 6.69 | 1.23 | 21.43 | 8.19 | 29.63 |
| Tractor (40-59hp)RB | 2WD 50 | 22,900 | 600 | 8 | 2.57 | 13.51 | 6.69 | 0.71 | 20.91 | 4.75 | 25.67 |
| Tractor (40-59hp)RB | MFWD 50 | 27,800 | 600 | 8 | 2.57 | 13.51 | 6.69 | 0.86 | 21.07 | 5.77 | 26.84 |
| Tractor (60-89hp)CB | 2WD 75 | 52,800 | 600 | 8 | 3.86 | 13.51 | 10.03 | 1.65 | 25.19 | 10.95 | 36.15 |
| Tractor (60-89hp)CB | MFWD 75 | 62,500 | 600 | 8 | 3.86 | 13.51 | 10.03 | 1.95 | 25.50 | 12.97 | 38.47 |
| Tractor (60-89hp)RB | 2WD 75 | 38,600 | 600 | 8 | 3.86 | 13.51 | 10.03 | 1.20 | 24.75 | 8.01 | 32.76 |
| Tractor (60-89hp)RB | MFWD 75 | 40,100 | 600 | 8 | 3.86 | 13.51 | 10.03 | 1.25 | 24.80 | 8.32 | 33.12 |
| Tractor (90-119hp)CB | 2WD 105 | 69,200 | 600 | 8 | 5.40 | 13.51 | 14.05 | 2.16 | 29.72 | 14.36 | 44.08 |
| Tractor (90-119hp)CB | MFWD 105 | 83,000 | 600 | 8 | 5.40 | 13.51 | 14.05 | 2.59 | 30.15 | 17.22 | 47.38 |
| Tractor (90-119hp)RB | 2WD 105 | 61,200 | 600 | 8 | 5.40 | 13.51 | 14.05 | 1.91 | 29.47 | 12.70 | 42.17 |
| Tractor (90-119hp)RB | MFWD 105 | 67,500 | 600 | 8 | 5.40 | 13.51 | 14.05 | 2.10 | 29.67 | 14.01 | 43.68 |
| Tractor (120-139hp)CB | 2WD 130 | 103,000 | 600 | 8 | 6.69 | 13.51 | 17.39 | 3.21 | 34.12 | 21.37 | 55.50 |
| Tractor (120-139hp)CB | MFWD 130 | 114,000 | 600 | 8 | 6.69 | 13.51 | 17.39 | 3.56 | 34.47 | 23.66 | 58.13 |
| Tractor (140-159hp) | 2WD 150 | 109,000 | 600 | 8 | 7.72 | 13.51 | 20.07 | 3.40 | 36.99 | 22.62 | 59.61 |
| Tractor (140-159hp)CB | MFWD 150 | 130,000 | 600 | 8 | 7.72 | 13.51 | 20.07 | 4.06 | 37.64 | 26.98 | 64.63 |
| Tractor (160-179hp)CB | MFWD 170 | 148,000 | 600 | 8 | 8.75 | 13.51 | 22.75 | 4.62 | 40.88 | 31.94 | 72.83 |
| Tractor (180-199hp)CB | MFWD 190 | 175,000 | 600 | 8 | 9.77 | 13.51 | 25.42 | 5.46 | 44.40 | 37.77 | 82.17 |
| Tractor (200-249hp)CB | MFWD 225 | 191,000 | 600 | 8 | 11.58 | 13.51 | 30.11 | 5.96 | 49.59 | 41.22 | 90.81 |
| Tractor (250-349hp)CB | 4WD 300 | 286,000 | 600 | 8 | 15.44 | 13.51 | 40.14 | 8.93 | 62.59 | 61.73 | 124.32 |
| Tractor (250-349hp)CB | MFWD 300 | 278,000 | 600 | 8 | 15.44 | 13.51 | 40.14 | 8.68 | 62.34 | 60.00 | 122.34 |
| Tractor (250-349hp)CB | Track 300 | 317,000 | 600 | 8 | 15.44 | 13.51 | 40.14 | 9.90 | 63.56 | 68.42 | 131.98 |
| Tractor (350-449hp) | Track 400 | 420,000 | 600 | 8 | 20.58 | 13.51 | 53.53 | 13.12 | 80.16 | 90.65 | 170.81 |
| Tractor (350-449hp)CB | 4WD 400 | 328,000 | 600 | 8 | 20.58 | 13.51 | 53.53 | 10.25 | 77.29 | 70.79 | 148.08 |
| Tractor (450-550hp)CB | 4WD 500 | 394,000 | 600 | 8 | 25.73 | 13.51 | 66.91 | 12.31 | 92.73 | 85.04 | 177.77 |
| Tractor (450-550hp)CB | Track 500 | 444,000 | 600 | 8 | 25.73 | 13.51 | 66.91 | 13.87 | 94.29 | 95.83 | 190.13 |
| Utility Vehicle | 800 CC | 12,200 | 200 | 8 | 0.70 | 13.51 | 1.75 | 1.90 | 17.16 | 8.20 | 25.36 |
| Utility Vehicle | 900 CC | 15,800 | 200 | 8 | 1.00 | 13.51 | 2.50 | 2.46 | 18.47 | 10.62 | 29.10 |

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2019

| 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 | 8.62 | 10.79 | 25.23 | 46.44 | 71.68 |
| Cotton Picker | 4R-38 (350) | 351,000 | 200 | 8 | 18.01 | 0.257 | 5.81 | 12.07 | 14.13 | 32.02 | 60.83 | 92.86 |
| Cotton Picker | 4R2x1 (350) | 357,000 | 200 | 8 | 18.01 | 0.172 | 3.88 | 8.07 | 9.61 | 21.57 | 41.35 | 62.92 |
| Cotton Picker | 6R-30 (355) | 465,000 | 200 | 8 | 18.27 | 0.218 | 4.92 | 10.36 | 15.85 | 31.15 | 68.23 | 99.38 |
| Cotton Picker | 6R-38 (355) | 465,000 | 200 | 8 | 18.27 | 0.172 | 3.88 | 8.18 | 12.51 | 24.59 | 53.86 | 78.46 |
| Cotton Picker/Module | 4R-38 (365) | 536,000 | 200 | 8 | 20.58 | 0.257 | 5.81 | 13.79 | 21.58 | 41.20 | 92.89 | 134.10 |
| Cotton Picker/Module | 6R-30 (500) | 776,000 | 200 | 8 | 25.73 | 0.218 | 4.92 | 14.60 | 26.46 | 45.99 | 113.86 | 159.85 |
| Cotton Picker/Module | 6R-38 (500) | 777,000 | 200 | 8 | 25.73 | 0.172 | 3.88 | 11.52 | 20.91 | 36.33 | 90.01 | 126.35 |
| Dry Applicator SP | 70'300cuft | 347,000 | 350 | 8 | 16.98 | 0.015 | 0.27 | 0.66 | 0.28 | 1.22 | 2.01 | 3.23 |
| Sprayer 600-750gal | 60' 175hp | 208,000 | 350 | 8 | 9.00 | 0.017 | 0.31 | 0.41 | 0.19 | 0.92 | 1.40 | 2.33 |
| Sprayer 600-825gal | 80' 175hp | 210,000 | 350 | 8 | 11.81 | 0.013 | 0.23 | 0.40 | 0.14 | 0.79 | 1.06 | 1.85 |
| Sprayer 600-825gal | 90' 250hp | 288,000 | 350 | 8 | 12.73 | 0.011 | 0.21 | 0.38 | 0.18 | 0.78 | 1.30 | 2.08 |
| Sprayer 800gal | 100' 250hp | 303,000 | 350 | 8 | 14.15 | 0.010 | 0.19 | 0.38 | 0.17 | 0.75 | 1.23 | 1.98 |
| Sprayer 800gal | 80' 250hp | 255,000 | 350 | 8 | 12.86 | 0.013 | 0.23 | 0.44 | 0.18 | 0.86 | 1.29 | 2.15 |
| Sprayer 1000-1400gal | 90' 275hp | 289,000 | 350 | 8 | 14.15 | 0.010 | 0.19 | 0.38 | 0.16 | 0.74 | 1.17 | 1.91 |
| Sprayer 1000gal | 100' 300hp | 328,000 | 350 | 8 | 15.44 | 0.010 | 0.19 | 0.42 | 0.18 | 0.80 | 1.33 | 2.13 |
| Sprayer 1200+gal | 120' 300hp | 332,000 | 350 | 8 | 15.44 | 0.008 | 0.15 | 0.35 | 0.15 | 0.66 | 1.12 | 1.79 |

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, 2019

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | Total | --Fixed-- | Total | | | |
|----------------------|------------|------------|----------------|------------|-------------|-----------|-------|------|-----------|--------|-----------|-------|------|-------|-------|
| | | | dollars | hours | years | hr/ac | | | Imp. P.U. | Direct | Imp. P.U. | Cost | | | |
| -----\$/acre----- | | | | | | | | | | | | | | | |
| Bed-Paratill | Fold | 8R-38 | MFWD 225 | 54,400 | 150 | 12 | 0.080 | 1.09 | 2.43 | 1.58 | 0.48 | 5.59 | 3.08 | 3.32 | 12.00 |
| Bed-Paratill | Fold | 8R-38 2x1 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.72 | 1.61 | 1.34 | 0.32 | 4.00 | 2.60 | 2.21 | 8.83 |
| Bed-Paratill | Fold | 12R-38 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.72 | 1.61 | 1.34 | 0.32 | 4.00 | 2.60 | 2.21 | 8.83 |
| Bed-Paratill | Rigid | 4R-30 | MFWD 225 | 12,300 | 150 | 12 | 0.204 | 2.76 | 6.15 | 0.90 | 1.21 | 11.04 | 1.76 | 8.42 | 21.22 |
| Bed-Paratill | Rigid | 4R-38 | MFWD 225 | 12,300 | 150 | 12 | 0.160 | 2.17 | 4.84 | 0.71 | 0.96 | 8.69 | 1.38 | 6.63 | 16.71 |
| Bed-Paratill | Rigid | 6R-30 | MFWD 225 | 17,300 | 150 | 12 | 0.136 | 1.84 | 4.10 | 0.85 | 0.81 | 7.60 | 1.65 | 5.61 | 14.87 |
| Bed-Paratill | Rigid | 6R-38 | MFWD 225 | 17,200 | 150 | 12 | 0.107 | 1.45 | 3.23 | 0.66 | 0.64 | 6.00 | 1.29 | 4.43 | 11.73 |
| Bed-Paratill | Rigid | 8R-30 | MFWD 225 | 22,600 | 150 | 12 | 0.102 | 1.38 | 3.07 | 0.83 | 0.60 | 5.90 | 1.62 | 4.21 | 11.73 |
| Bed-Paratill | Rigid | 8R-38 | MFWD 225 | 22,600 | 150 | 12 | 0.080 | 1.09 | 2.43 | 0.65 | 0.48 | 4.66 | 1.28 | 3.32 | 9.27 |
| Bed-Rip/Disk | Fold. | 8R-38 | MFWD 190 | 36,900 | 300 | 20 | 0.073 | 0.98 | 1.85 | 0.13 | 0.39 | 3.37 | 0.74 | 2.76 | 6.88 |
| Bed-Rip/Disk | Fold. | 12R-30 | MFWD 225 | 56,600 | 300 | 20 | 0.061 | 0.83 | 1.85 | 0.17 | 0.36 | 3.23 | 0.96 | 2.54 | 6.73 |
| Bed-Rip/Disk | Fold. | 12R-38 | MFWD 225 | 56,600 | 300 | 20 | 0.046 | 0.62 | 1.39 | 0.13 | 0.27 | 2.42 | 0.72 | 1.90 | 5.05 |
| Bed-Rip/Disk | Rigid | 4R-30 | MFWD 190 | 17,300 | 300 | 20 | 0.184 | 2.49 | 4.70 | 0.15 | 1.01 | 8.36 | 0.88 | 6.98 | 16.23 |
| Bed-Rip/Disk | Rigid | 4R-38 | MFWD 190 | 17,300 | 300 | 20 | 0.146 | 1.98 | 3.73 | 0.12 | 0.80 | 6.64 | 0.70 | 5.54 | 12.88 |
| Bed-Rip/Disk | Rigid | 6R-38 | MFWD 190 | 23,900 | 300 | 20 | 0.097 | 1.31 | 2.47 | 0.11 | 0.53 | 4.43 | 0.64 | 3.67 | 8.75 |
| Bed-Rip/Disk | Rigid | 8R-30 | MFWD 190 | 31,300 | 300 | 20 | 0.139 | 1.87 | 3.53 | 0.21 | 0.76 | 6.39 | 1.20 | 5.25 | 12.84 |
| Bed-Rip/Disk | Rigid | 8R-38 | MFWD 190 | 31,300 | 300 | 20 | 0.073 | 0.98 | 1.85 | 0.11 | 0.39 | 3.35 | 0.63 | 2.76 | 6.75 |
| Bed-Rip/Disk | Rigid | 6R-30 | MFWD 190 | 23,900 | 300 | 20 | 0.123 | 1.66 | 3.13 | 0.14 | 0.67 | 5.62 | 0.81 | 4.65 | 11.09 |
| Bed-Rip/Disk/Cond. | 6-Row | MFWD 225 | 24,600 | 150 | 12 | 0.107 | 1.45 | 3.23 | 0.95 | 0.64 | 6.28 | 1.85 | 4.43 | 12.57 | |
| Bed-Rip/Disk/Cond. | 8-Row | MFWD 225 | 32,700 | 150 | 12 | 0.080 | 1.09 | 2.43 | 0.95 | 0.48 | 4.95 | 1.85 | 3.32 | 10.14 | |
| Bed/Disk (Hipper) | 4R-38 | MFWD 150 | 9,200 | 160 | 10 | 0.147 | 1.99 | 2.96 | 0.33 | 0.59 | 5.89 | 0.99 | 3.98 | 10.87 | |
| Bed/Disk (Hipper) | 6R-38 | MFWD 170 | 13,000 | 160 | 10 | 0.098 | 1.33 | 2.24 | 0.32 | 0.45 | 4.35 | 0.93 | 3.15 | 8.44 | |
| Bed/Disk (Hipper) | 8R-30 | MFWD 190 | 17,800 | 160 | 10 | 0.093 | 1.26 | 2.38 | 0.41 | 0.51 | 4.58 | 1.21 | 3.54 | 9.34 | |
| Bed/Disk (Hipper) | 8R-38 2x1 | MFWD 190 | 29,200 | 160 | 10 | 0.049 | 0.66 | 1.25 | 0.36 | 0.26 | 2.55 | 1.05 | 1.86 | 5.46 | |
| Bed/Disk (Hipper) | 12R-30 | MFWD 225 | 31,000 | 160 | 10 | 0.062 | 0.84 | 1.88 | 0.48 | 0.37 | 3.58 | 1.41 | 2.57 | 7.57 | |
| Bed/Disk (Hipper) | 12R-38 | MFWD 225 | 29,200 | 160 | 10 | 0.049 | 0.66 | 1.48 | 0.36 | 0.29 | 2.80 | 1.05 | 2.03 | 5.89 | |
| Bed/Disk (Hipper)Fl | 8R-38 | MFWD 190 | 2,000 | 160 | 10 | 0.074 | 1.00 | 1.88 | 0.03 | 0.40 | 3.32 | 0.10 | 2.79 | 6.23 | |
| Bed/Disk (Hipper)Rd | 8R-38 | MFWD 190 | 18,400 | 160 | 10 | 0.074 | 1.00 | 1.88 | 0.34 | 0.40 | 3.63 | 0.99 | 2.79 | 7.42 | |
| Bed/Disk w/roller | 8R-30 | MFWD 190 | 26,600 | 160 | 10 | 0.093 | 1.26 | 2.38 | 0.62 | 0.51 | 4.78 | 1.82 | 3.54 | 10.14 | |
| Bed/Disk w/roller | 8R-38 | MFWD 190 | 26,600 | 160 | 10 | 0.074 | 1.00 | 1.88 | 0.49 | 0.40 | 3.78 | 1.43 | 2.79 | 8.02 | |
| Bed/Disk w/roller | 12R-30/40 | MFWD 225 | 47,000 | 160 | 10 | 0.062 | 0.84 | 1.88 | 0.73 | 0.37 | 3.83 | 2.14 | 2.57 | 8.55 | |
| Bed/Lister | 4R-38 | MFWD 150 | 18,200 | 160 | 8 | 0.228 | 3.08 | 4.58 | 0.97 | 0.92 | 9.57 | 3.36 | 6.16 | 19.09 | |
| Bed/Lister | 6R-38 | MFWD 150 | 19,100 | 160 | 8 | 0.120 | 1.62 | 2.41 | 0.53 | 0.48 | 5.06 | 1.85 | 3.24 | 10.16 | |
| Bed/Lister | 8R-30 | MFWD 190 | 23,100 | 160 | 8 | 0.114 | 1.54 | 2.90 | 0.61 | 0.62 | 5.68 | 2.13 | 4.31 | 12.13 | |
| Bed/Lister | 8R-38 | MFWD 190 | 23,400 | 160 | 8 | 0.090 | 1.21 | 2.29 | 0.49 | 0.49 | 4.50 | 1.70 | 3.40 | 9.62 | |
| Bed/Lister | 8R-38 2x1 | MFWD 190 | 46,700 | 160 | 8 | 0.060 | 0.81 | 1.52 | 0.65 | 0.32 | 3.32 | 2.27 | 2.27 | 7.86 | |
| Bed/Lister | 12R-38 | MFWD 225 | 46,700 | 160 | 8 | 0.060 | 0.81 | 1.80 | 0.65 | 0.35 | 3.63 | 2.27 | 2.47 | 8.38 | |
| Bed/Lister | 16R-30 | MFWD 225 | 58,100 | 160 | 8 | 0.035 | 0.47 | 1.05 | 0.47 | 0.20 | 2.22 | 1.65 | 1.44 | 5.32 | |
| Bed/Lister | 16R40 | MFWD 300 | 60,900 | 160 | 8 | 0.043 | 0.58 | 1.73 | 0.61 | 0.37 | 3.30 | 2.12 | 2.58 | 8.01 | |
| Bed/Lister-Roll-Fold | 8R-38 | MFWD 190 | 24,300 | 160 | 10 | 0.074 | 1.00 | 1.88 | 0.45 | 0.40 | 3.74 | 1.31 | 2.79 | 7.85 | |
| Bed/Lister-Roll-Fold | 12R-30 | MFWD 225 | 29,200 | 160 | 10 | 0.062 | 0.84 | 1.88 | 0.45 | 0.37 | 3.55 | 1.33 | 2.57 | 7.46 | |
| Bed/Lister-Roll-Fold | 12R-38 | MFWD 225 | 33,700 | 160 | 10 | 0.049 | 0.66 | 1.48 | 0.41 | 0.29 | 2.86 | 1.21 | 2.03 | 6.11 | |
| Bed/Lister-Roll-Fold | 16R-30 | MFWD 225 | 34,800 | 160 | 10 | 0.046 | 0.63 | 1.41 | 0.40 | 0.27 | 2.73 | 1.19 | 1.93 | 5.85 | |
| Bed/Lister-Roll-Rig. | 8R-38 | MFWD 190 | 20,300 | 160 | 10 | 0.074 | 1.00 | 1.88 | 0.37 | 0.40 | 3.66 | 1.09 | 2.79 | 7.56 | |
| Blade-Box | 6'-7' | MFWD 105 | 1,221 | 200 | 20 | 0.020 | 0.27 | 0.28 | 0.01 | 0.04 | 0.60 | 0.01 | 0.28 | 0.89 | |
| Blade-Box | 8'-10' | MFWD 105 | 3,700 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Blade-Scraper | 6'-7' | MFWD 105 | 1,213 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Blade-Scraper | 8'-10' | MFWD 105 | 3,550 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Boll Buggy | 4R-38(250) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.48 | 6.55 | 1.96 | 1.40 | 13.41 | 4.44 | 9.73 | 27.59 | |
| Boll Buggy | 4R-38(350) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.48 | 6.55 | 1.96 | 1.40 | 13.41 | 4.44 | 9.73 | 27.59 | |
| Boll Buggy | 4R2x1(350) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.32 | 4.38 | 1.31 | 0.94 | 8.96 | 2.97 | 6.50 | 18.44 | |
| Boll Buggy | 6R-30(355) | MFWD 190 | 30,500 | 200 | 10 | 0.218 | 2.94 | 5.54 | 1.66 | 1.19 | 11.35 | 3.76 | 8.24 | 23.36 | |
| Boll Buggy | 6R-38(355) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.32 | 4.38 | 1.31 | 0.94 | 8.96 | 2.97 | 6.50 | 18.44 | |
| Chisel Plow-Folding | 24' | MFWD 190 | 39,900 | 150 | 12 | 0.076 | 1.03 | 1.94 | 1.10 | 0.41 | 4.49 | 2.14 | 2.88 | 9.52 | |
| Chisel Plow-Folding | 32' | MFWD 225 | 51,900 | 150 | 12 | 0.057 | 0.78 | 1.73 | 1.08 | 0.34 | 3.94 | 2.10 | 2.38 | 8.43 | |
| Chisel Plow-Folding | 42' | MFWD 225 | 62,500 | 150 | 12 | 0.044 | 0.59 | 1.32 | 0.99 | 0.26 | 3.17 | 1.93 | 1.81 | 6.92 | |
| Chisel Plow-Folding | 50' | MFWD 225 | 81,900 | 150 | 10 | 0.036 | 0.49 | 1.11 | 1.31 | 0.22 | 3.14 | 2.35 | 1.52 | 7.02 | |
| Chisel Plow-Folding | 61' | MFWD 225 | 92,400 | 150 | 12 | 0.030 | 0.40 | 0.91 | 1.01 | 0.18 | 2.51 | 1.96 | 1.24 | 5.72 | |
| Chisel Plow-Rigid | 10' | MFWD 170 | 7,090 | 150 | 12 | 0.184 | 2.49 | 4.20 | 0.47 | 0.85 | 8.03 | 0.92 | 5.90 | 14.85 | |
| Chisel Plow-Rigid | 15' | 2WD 130 | 11,800 | 150 | 12 | 0.123 | 1.66 | 2.14 | 0.52 | 0.39 | 4.73 | 1.02 | 2.63 | 8.38 | |
| Chisel Plow-Rigid | 20' | MFWD 225 | 11,300 | 150 | 12 | 0.102 | 1.38 | 3.09 | 0.41 | 0.61 | 5.51 | 0.81 | 4.23 | 10.56 | |
| Chisel Plow-Rigid | 24' | MFWD 190 | 11,700 | 150 | 12 | 0.077 | 1.04 | 1.95 | 0.32 | 0.42 | 3.74 | 0.63 | 2.90 | 7.28 | |
| Cultivate | 4R-30 | 2WD 105 | 12,100 | 150 | 10 | 0.206 | 2.78 | 2.89 | 0.66 | 0.44 | 6.79 | 1.94 | 2.96 | 11.70 | |
| Cultivate | 4R-38 | 2WD 105 | 12,200 | 150 | 10 | 0.162 | 2.19 | 2.28 | 0.52 | 0.31 | 5.31 | 1.54 | 2.06 | 8.92 | |
| Cultivate | 6R-30 | MFWD 150 | 16,300 | 150 | 10 | 0.137 | 1.85 | 2.76 | 0.59 | 0.55 | 5.77 | 1.74 | 3.71 | 11.23 | |
| Cultivate | 6R-38 | MFWD 150 | 17,200 | 150 | 10 | 0.108 | 1.46 | 2.17 | 0.49 | 0.44 | 4.58 | 1.45 | 2.92 | 8.96 | |
| Cultivate | 8R-30 | MFWD 190 | 21,400 | 150 | 10 | 0.103 | 1.39 | 2.62 | 0.58 | 0.56 | 5.16 | 1.71 | 3.89 | 10.78 | |
| Cultivate | 8R-38 | MFWD 190 | 22,600 | 150 | 10 | 0.073 | 0.99 | 1.87 | 0.44 | 0.40 | 3.71 | 1.29 | 2.78 | 7.79 | |
| Cultivate | 8R-38 2x1 | MFWD 190 | 35,400 | 150 | 10 | 0.054 | 0.73 | 1.38 | 0.51 | 0.29 | 2.92 | 1.49 | 2.05 | 6.47 | |
| Cultivate | 12R-30 | MFWD 225 | 39,900 | 150 | 10 | 0.068 | 0.92 | 2.07 | 0.73 | 0.41 | 4.14 | 2.13 | 2.83 | 9.11 | |
| Cultivate | 12R-38 | MFWD 225 | 39,100 | 150 | 10 | 0.054 | 0.73 | 1.63 | 0.56 | 0.32 | 3.25 | 1.65 | 2.23 | 7.14 | |
| Cultivate | 16R-30 | MFWD 225 | 47,800 | 150 | 10 | 0.051 | 0.69 | 1.55 | 0.65 | 0.30 | 3.21 | 1.92 | 2.12 | 7.25 | |
| Cultivate & Post | 4R-30 | 2WD 105 | 19,400 | 150 | 10 | 0.220 | 3.96 | 3.09 | 1.13 | 0.42 | 8.61 | 3.32 | 2.79 | 14.73 | |
| Cultivate & Post | 4R-38 | 2WD 105 | 19,500 | 150 | 10 | 0.173 | 3.12 | 2.43 | 0.90 | 0.33 | 6.79 | 2.63 | 2.20 | 11.62 | |
| Cultivate & Post | 6R-30 | MFWD 150 | 23,600 | 150 | 10 | 0.146 | 2.64 | 2.94 | 0.92 | 0.59 | 7.10 | 2.69 | 3.95 | 13.76 | |
| Cultivate & Post | 6R-38 | MFWD 150 | 24,500 | 150 | 10 | 0.115 | 2.08 | 2.32 | 0.75 | 0.47 | 5.64 | 2.21 | 3.12 | 10.97 | |
| Cultivate & Post | 8R-30 | MFWD 190 | 28,700 | 150 | 10 | 0.110 | 1.98 | 2.79 | 0.84 | 0.60 | 6.22 | 2.45 | 4.15 | 12.83 | |
| Cultivate & Post | 8R-38 | MFWD 190 | 29,800 | 150 | 10 | 0.086 | 1.56 | 2.21 | 0.69 | 0.47 | 4.94 | 2.01 | 3.28 | 10.25 | |
| Cultivate & Post | 8R-38 2x1 | MFWD 190 | 47,800 | 150 | 10 | 0.057 | 1.04 | 1.47 | 0.73 | 0.31 | 3.57 | 2.15 | 2.18 | 7.91 | |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- Imp. P.U. | Total Direct | --Fixed-- Imp. P.U. | Total Cost | | |
|----------------------|-----------|------------|----------------|------------|-------------|-----------|-------------------|------|------------------------|--------------|------------------------|------------|-------|-------|
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | |
| Cultivate & Post | 12R-30 | MFWD 225 | 47,200 | 150 | 10 | 0.073 | 1.32 | 2.20 | 0.92 | 0.43 | 4.89 | 2.69 | 3.02 | 10.61 |
| Cultivate & Post | 12R-38 | MFWD 225 | 47,800 | 150 | 10 | 0.057 | 1.04 | 1.74 | 0.73 | 0.34 | 3.87 | 2.15 | 2.38 | 8.41 |
| Cultivate & Post | 16R-30 | MFWD 225 | 56,500 | 150 | 10 | 0.055 | 0.99 | 1.65 | 0.82 | 0.32 | 3.80 | 2.42 | 2.26 | 8.49 |
| Disk & Incorporate | 14' | 2WD 130 | 31,900 | 200 | 10 | 0.149 | 2.69 | 2.60 | 1.43 | 0.48 | 7.21 | 2.78 | 3.19 | 13.20 |
| Disk & Incorporate | 20' | MFWD 190 | 44,500 | 180 | 10 | 0.092 | 1.24 | 2.35 | 1.37 | 0.50 | 5.47 | 2.67 | 3.49 | 11.63 |
| Disk & Incorporate | 24' | MFWD 190 | 50,000 | 200 | 10 | 0.087 | 1.57 | 2.21 | 1.30 | 0.47 | 5.58 | 2.55 | 3.29 | 11.42 |
| Disk & Incorporate | 28' | MFWD 225 | 59,200 | 200 | 10 | 0.074 | 1.34 | 2.25 | 1.32 | 0.44 | 5.37 | 2.58 | 3.08 | 11.05 |
| Disk & Incorporate | 32' | MFWD 225 | 66,000 | 200 | 10 | 0.065 | 1.18 | 1.97 | 1.29 | 0.39 | 4.84 | 2.52 | 2.69 | 10.06 |
| Disk Harrow | 14' | 2WD 130 | 24,600 | 180 | 10 | 0.140 | 1.89 | 2.44 | 0.95 | 0.45 | 5.74 | 2.24 | 2.99 | 10.98 |
| Disk Harrow | 20' | MFWD 190 | 39,200 | 180 | 10 | 0.098 | 1.32 | 2.49 | 1.06 | 0.53 | 5.43 | 2.49 | 3.70 | 11.63 |
| Disk Harrow | 24' | MFWD 190 | 42,700 | 180 | 10 | 0.081 | 1.10 | 2.08 | 0.97 | 0.44 | 4.60 | 2.26 | 3.09 | 9.96 |
| Disk Harrow | 28' | MFWD 225 | 52,000 | 180 | 10 | 0.070 | 0.94 | 2.11 | 1.01 | 0.41 | 4.49 | 2.36 | 2.89 | 9.75 |
| Disk Harrow | 32' | MFWD 225 | 58,700 | 180 | 10 | 0.061 | 0.82 | 1.84 | 1.00 | 0.36 | 4.04 | 2.33 | 2.53 | 8.91 |
| Disk Harrow | 42' | MFWD 225 | 104,000 | 180 | 10 | 0.046 | 0.63 | 1.40 | 1.35 | 0.27 | 3.67 | 3.15 | 1.92 | 8.75 |
| Disk Harrow 40-100hp | 14' | 2WD 75 | 15,000 | 180 | 10 | 0.140 | 1.89 | 1.40 | 0.58 | 0.16 | 4.05 | 1.36 | 1.12 | 6.54 |
| Disk Heavy | 14' | MFWD 150 | 31,900 | 180 | 10 | 0.145 | 1.97 | 2.92 | 1.29 | 0.59 | 6.78 | 3.02 | 3.93 | 13.74 |
| Disk Heavy | 20' | MFWD 190 | 39,200 | 180 | 10 | 0.097 | 1.31 | 2.47 | 1.05 | 0.53 | 5.38 | 2.47 | 3.67 | 11.53 |
| Disk Heavy | 28' | MFWD 225 | 52,000 | 180 | 10 | 0.075 | 1.02 | 2.27 | 1.09 | 0.45 | 4.84 | 2.55 | 3.11 | 10.52 |
| Disk Ripper | 15' | MFWD 225 | 45,200 | 180 | 10 | 0.136 | 1.84 | 4.10 | 1.71 | 0.81 | 8.46 | 3.99 | 5.61 | 18.07 |
| Ditcher | | 2WD 130 | 5,700 | 200 | 10 | 0.020 | 0.27 | 0.34 | 0.04 | 0.06 | 0.72 | 0.06 | 0.42 | 1.22 |
| Ditcher (1m/160a) | | 2WD 130 | 5,700 | 200 | 10 | 0.009 | 0.12 | 0.16 | 0.02 | 0.03 | 0.34 | 0.03 | 0.20 | 0.57 |
| Fert Appl (Liquid) | 4R-38 | MFWD 150 | 12,900 | 150 | 8 | 0.154 | 2.79 | 3.10 | 1.33 | 0.62 | 7.85 | 1.65 | 4.17 | 13.68 |
| Fert Appl (Liquid) | 6R-30 | MFWD 170 | 16,700 | 150 | 8 | 0.130 | 2.36 | 2.97 | 1.45 | 0.60 | 7.40 | 1.81 | 4.18 | 13.40 |
| Fert Appl (Liquid) | 6R-38 | MFWD 170 | 16,100 | 150 | 8 | 0.103 | 1.86 | 2.35 | 1.10 | 0.47 | 5.80 | 1.38 | 3.30 | 10.48 |
| Fert Appl (Liquid) | 8R-30 | MFWD 190 | 16,900 | 150 | 8 | 0.098 | 1.77 | 2.49 | 1.10 | 0.53 | 5.91 | 1.37 | 3.70 | 11.00 |
| Fert Appl (Liquid) | 8R-38 | MFWD 190 | 19,000 | 150 | 8 | 0.077 | 1.40 | 1.97 | 0.98 | 0.42 | 4.78 | 1.22 | 2.93 | 8.94 |
| Fert Appl (Liquid) | 8R-38 2x1 | MFWD 190 | 20,300 | 150 | 8 | 0.051 | 0.93 | 1.31 | 0.69 | 0.28 | 3.22 | 0.87 | 1.95 | 6.05 |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 22,600 | 150 | 8 | 0.078 | 1.41 | 2.36 | 1.18 | 0.46 | 5.43 | 1.47 | 3.23 | 10.14 |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 19,900 | 150 | 8 | 0.051 | 0.93 | 1.55 | 0.68 | 0.30 | 3.48 | 0.85 | 2.13 | 6.46 |
| Field Cult & Inc | 42' | MFWD 225 | 69,400 | 100 | 10 | 0.037 | 0.68 | 1.13 | 0.65 | 0.22 | 2.69 | 3.06 | 1.55 | 7.32 |
| Field Cult & Inc | 50' | MFWD 225 | 81,500 | 100 | 10 | 0.031 | 0.57 | 0.95 | 0.64 | 0.18 | 2.36 | 3.02 | 1.30 | 6.69 |
| Field Cult & Inc Fld | 24' | MFWD 170 | 34,000 | 100 | 10 | 0.066 | 1.19 | 1.50 | 0.56 | 0.30 | 3.56 | 2.62 | 2.11 | 8.30 |
| Field Cult & Inc Fld | 32' | MFWD 190 | 48,700 | 100 | 10 | 0.049 | 0.89 | 1.26 | 0.60 | 0.27 | 3.02 | 2.82 | 1.87 | 7.72 |
| Field Cult & Inc Rdg | 12' | 2WD 150 | 15,800 | 100 | 10 | 0.132 | 2.38 | 2.65 | 0.52 | 0.45 | 6.01 | 2.44 | 2.99 | 11.44 |
| Field Cultivate Fld | 24' | MFWD 170 | 28,600 | 100 | 10 | 0.062 | 0.84 | 1.41 | 0.44 | 0.28 | 2.98 | 2.07 | 1.98 | 7.05 |
| Field Cultivate Fld | 32' | MFWD 190 | 43,300 | 100 | 10 | 0.046 | 0.63 | 1.18 | 0.50 | 0.25 | 2.57 | 2.36 | 1.76 | 6.70 |
| Field Cultivate Fld | 42' | MFWD 225 | 60,700 | 100 | 10 | 0.035 | 0.48 | 1.07 | 0.53 | 0.21 | 2.30 | 2.52 | 1.46 | 6.28 |
| Field Cultivate Fld | 50' | MFWD 225 | 65,900 | 100 | 10 | 0.029 | 0.40 | 0.89 | 0.49 | 0.17 | 1.97 | 2.29 | 1.23 | 5.50 |
| Field Cultivate Rdg | 12' | 2WD 150 | 10,400 | 100 | 10 | 0.124 | 1.68 | 2.49 | 0.32 | 0.42 | 4.92 | 1.51 | 2.81 | 9.25 |
| Grain Cart Corn | 500 bu | MFWD 190 | 25,700 | 200 | 12 | 0.025 | 0.34 | 0.64 | 0.17 | 0.13 | 1.29 | 0.34 | 0.95 | 2.59 |
| Grain Cart Corn | 700 bu | MFWD 190 | 37,300 | 200 | 12 | 0.025 | 0.34 | 0.64 | 0.25 | 0.13 | 1.37 | 0.49 | 0.95 | 2.83 |
| Grain Cart Corn | 1000 bu | MFWD 225 | 46,900 | 200 | 12 | 0.025 | 0.34 | 0.76 | 0.32 | 0.15 | 1.57 | 0.62 | 1.04 | 3.24 |
| Grain Cart Rice | 500 bu | MFWD 190 | 25,700 | 200 | 12 | 0.062 | 0.84 | 1.58 | 0.43 | 0.34 | 3.21 | 0.84 | 2.36 | 6.41 |
| Grain Cart Rice | 700 bu | MFWD 190 | 37,300 | 200 | 12 | 0.055 | 0.74 | 1.39 | 0.55 | 0.30 | 2.99 | 1.08 | 2.07 | 6.15 |
| Grain Cart Rice | 1000 bu | MFWD 190 | 46,900 | 200 | 12 | 0.045 | 0.61 | 1.16 | 0.58 | 0.25 | 2.61 | 1.13 | 1.73 | 5.48 |
| Grain Cart Soybean | 500 bu | MFWD 190 | 25,700 | 200 | 12 | 0.025 | 0.34 | 0.64 | 0.17 | 0.13 | 1.30 | 0.34 | 0.96 | 2.61 |
| Grain Cart Soybean | 700 bu | MFWD 190 | 37,300 | 200 | 12 | 0.021 | 0.28 | 0.54 | 0.21 | 0.11 | 1.15 | 0.41 | 0.80 | 2.37 |
| Grain Cart Soybean | 1000 bu | MFWD 190 | 46,900 | 200 | 12 | 0.021 | 0.28 | 0.54 | 0.26 | 0.11 | 1.21 | 0.52 | 0.80 | 2.54 |
| Grain Cart Wht/Sor | 500 bu | MFWD 190 | 25,700 | 200 | 12 | 0.025 | 0.34 | 0.64 | 0.17 | 0.13 | 1.30 | 0.34 | 0.96 | 2.61 |
| Grain Cart Wht/Sor | 700 bu | MFWD 190 | 37,300 | 200 | 12 | 0.021 | 0.28 | 0.54 | 0.21 | 0.11 | 1.15 | 0.41 | 0.80 | 2.37 |
| Grain Cart Wht/Sor | 1000 bu | MFWD 190 | 46,900 | 200 | 12 | 0.021 | 0.28 | 0.54 | 0.26 | 0.11 | 1.21 | 0.52 | 0.80 | 2.54 |
| Grain Drill | 10' | 2WD 130 | 26,700 | 150 | 8 | 0.188 | 4.25 | 3.28 | 1.88 | 0.60 | 10.03 | 4.01 | 4.03 | 18.07 |
| Grain Drill | 12' | 2WD 130 | 26,800 | 150 | 8 | 0.157 | 3.54 | 2.73 | 1.57 | 0.50 | 8.36 | 3.35 | 3.35 | 15.08 |
| Grain Drill | 15' | MFWD 150 | 32,600 | 150 | 8 | 0.125 | 2.83 | 2.52 | 1.53 | 0.51 | 7.40 | 3.26 | 3.39 | 14.06 |
| Grain Drill | 20' | MFWD 170 | 38,800 | 150 | 8 | 0.094 | 2.12 | 2.14 | 1.37 | 0.43 | 6.08 | 2.91 | 3.01 | 12.00 |
| Grain Drill | 24' | MFWD 190 | 65,600 | 150 | 8 | 0.078 | 1.77 | 1.99 | 1.93 | 0.42 | 6.13 | 4.10 | 2.96 | 13.21 |
| Grain Drill | 30' | MFWD 225 | 63,800 | 150 | 8 | 0.062 | 1.41 | 1.89 | 1.50 | 0.37 | 5.19 | 3.19 | 2.59 | 10.97 |
| Grain Drill | 35' | MFWD 225 | 91,000 | 150 | 8 | 0.053 | 1.21 | 1.62 | 1.83 | 0.32 | 4.99 | 3.90 | 2.22 | 11.12 |
| Grain Drill & Pre | 10' | 2WD 130 | 33,900 | 150 | 8 | 0.203 | 4.58 | 3.53 | 2.58 | 0.65 | 11.35 | 5.48 | 4.34 | 21.18 |
| Grain Drill & Pre | 12' | 2WD 130 | 34,100 | 150 | 8 | 0.169 | 3.81 | 2.94 | 2.16 | 0.54 | 9.47 | 4.60 | 3.61 | 17.69 |
| Grain Drill & Pre | 15' | MFWD 150 | 39,900 | 150 | 8 | 0.135 | 3.05 | 2.71 | 2.02 | 0.54 | 8.34 | 4.30 | 3.65 | 16.30 |
| Grain Drill & Pre | 20' | MFWD 170 | 46,000 | 150 | 8 | 0.101 | 2.29 | 2.31 | 1.75 | 0.46 | 6.82 | 3.72 | 3.24 | 13.79 |
| Grain Drill & Pre | 24' | MFWD 190 | 71,000 | 150 | 8 | 0.084 | 1.90 | 2.15 | 2.25 | 0.46 | 6.77 | 4.78 | 3.19 | 14.76 |
| Grain Drill & Pre | 30' | MFWD 225 | 71,000 | 150 | 8 | 0.067 | 1.52 | 2.03 | 1.80 | 0.40 | 5.77 | 3.83 | 2.79 | 12.39 |
| Grain Drill & Pre | 35' | MFWD 225 | 98,200 | 150 | 8 | 0.058 | 1.30 | 1.74 | 2.13 | 0.34 | 5.53 | 4.54 | 2.39 | 12.47 |
| Grain Drill & Pre T | 8R-38 | MFWD 225 | 51,800 | 150 | 8 | 0.062 | 1.41 | 1.89 | 1.22 | 0.37 | 4.90 | 2.59 | 2.59 | 10.09 |
| Harrow - Rigid | 21' | 2WD 150 | 6,750 | 200 | 10 | 0.073 | 0.99 | 1.48 | 0.17 | 0.25 | 2.91 | 0.29 | 1.67 | 4.87 |
| Harrow - Folding | 24' | MFWD 190 | 15,800 | 200 | 10 | 0.064 | 0.87 | 1.64 | 0.35 | 0.35 | 3.23 | 0.59 | 2.44 | 6.27 |
| Harrow - Folding | 30' | MFWD 190 | 17,700 | 200 | 10 | 0.051 | 0.69 | 1.31 | 0.32 | 0.28 | 2.61 | 0.53 | 1.95 | 5.10 |
| Harrow - Folding | 40' | MFWD 190 | 20,200 | 200 | 10 | 0.038 | 0.52 | 0.98 | 0.27 | 0.21 | 1.99 | 0.45 | 1.46 | 3.92 |
| Harrow - Folding | 48' | MFWD 225 | 23,700 | 200 | 10 | 0.032 | 0.43 | 0.97 | 0.26 | 0.19 | 1.87 | 0.44 | 1.33 | 3.65 |
| Harrow - Rigid | 13' | 2WD 130 | 4,950 | 200 | 10 | 0.119 | 1.61 | 2.07 | 0.20 | 0.38 | 4.28 | 0.34 | 2.55 | 7.18 |
| Header - Corn | 6R-30 | 265 hp | 48,500 | 300 | 8 | 0.170 | 2.30 | 6.03 | 2.06 | 6.01 | 16.41 | 3.42 | 25.87 | 45.71 |
| Header - Corn | 6R-38 | 265 hp | 48,800 | 300 | 8 | 0.134 | 1.81 | 4.76 | 1.64 | 4.74 | 12.97 | 2.72 | 20.42 | 36.12 |
| Header - Corn | 8R-30 | 265 hp | 62,300 | 300 | 8 | 0.127 | 1.72 | 4.52 | 1.98 | 4.50 | 12.75 | 3.30 | 19.40 | 35.46 |
| Header - Corn | 8R-38 | 325 hp | 63,000 | 300 | 8 | 0.100 | 1.36 | 4.39 | 1.59 | 3.80 | 11.15 | 2.64 | 16.38 | 30.17 |
| Header - Corn | 12R-20 | 325 hp | 95,600 | 300 | 8 | 0.127 | 1.72 | 5.55 | 3.05 | 4.81 | 15.14 | 5.06 | 20.72 | 40.93 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (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----- | | | | | | | |
| Header - Corn | 12R-30 | 325 hp | 98,200 | 300 | 8 | 0.085 | 1.15 | 3.70 | 2.09 | 3.21 | 10.15 | 3.47 | 13.81 | 27.43 |
| Header - Draper (CL) | 25' Rigid | 265 hp | 60,300 | 300 | 8 | 0.203 | 2.74 | 7.20 | 2.80 | 7.17 | 19.92 | 4.88 | 30.85 | 55.66 |
| Header - Draper (CL) | 30' Rigid | 325 hp | 70,600 | 300 | 8 | 0.169 | 2.28 | 7.36 | 2.73 | 6.38 | 18.76 | 4.76 | 27.45 | 50.98 |
| Header - Draper (CL) | 36' Rigid | 355 hp | 74,100 | 300 | 8 | 0.141 | 1.90 | 6.69 | 2.39 | 5.74 | 16.74 | 4.16 | 24.71 | 45.62 |
| Header - Draper (CL) | 40' Rigid | 425 hp | 79,500 | 30 | 8 | 0.126 | 1.71 | 7.21 | 23.12 | 5.44 | 37.50 | 40.21 | 23.43 | 101.16 |
| Header - Draper (SL) | 25' Rigid | 325 hp | 60,300 | 300 | 8 | 0.176 | 2.37 | 7.65 | 2.43 | 6.63 | 19.10 | 4.23 | 28.55 | 51.88 |
| Header - Draper (SL) | 30' Rigid | 325 hp | 70,600 | 300 | 8 | 0.146 | 1.98 | 6.37 | 2.37 | 5.53 | 16.26 | 4.12 | 23.79 | 44.19 |
| Header - Draper (SL) | 36' Rigid | 355 hp | 74,100 | 300 | 8 | 0.122 | 1.65 | 5.80 | 2.07 | 4.97 | 14.51 | 3.60 | 21.41 | 39.53 |
| Header - Drapper | 40' Rigid | 425 hp | 79,500 | 30 | 8 | 0.110 | 1.48 | 6.25 | 20.04 | 4.72 | 32.50 | 34.85 | 20.31 | 87.67 |
| Header -RiceStrp (CL) | 20' | 265 hp | 50,000 | 300 | 8 | 0.253 | 3.42 | 9.00 | 3.17 | 8.96 | 24.56 | 5.26 | 38.57 | 68.41 |
| Header -RiceStrp (CL) | 24' | 325 hp | 55,400 | 300 | 8 | 0.211 | 2.85 | 9.20 | 2.92 | 7.97 | 22.96 | 4.86 | 34.32 | 62.15 |
| Header -RiceStrp (CL) | 32' | 325 hp | 60,800 | 300 | 8 | 0.158 | 2.14 | 6.90 | 2.41 | 5.98 | 17.43 | 4.00 | 25.74 | 47.18 |
| Header -RiceStrp (SL) | 20' | 265 hp | 50,000 | 300 | 8 | 0.220 | 2.97 | 7.80 | 2.75 | 7.76 | 21.29 | 4.56 | 33.42 | 59.28 |
| Header -RiceStrp (SL) | 24' | 325 hp | 55,400 | 300 | 8 | 0.183 | 2.47 | 7.97 | 2.53 | 6.91 | 19.90 | 4.21 | 29.74 | 53.86 |
| Header -RiceStrp (SL) | 32' | 325 hp | 60,800 | 300 | 8 | 0.137 | 1.85 | 5.98 | 2.09 | 5.18 | 15.11 | 3.47 | 22.31 | 40.89 |
| Header -Soybean | 22' Flex | 265 hp | 32,600 | 300 | 8 | 0.116 | 1.56 | 4.11 | 0.94 | 4.09 | 10.73 | 1.57 | 17.64 | 29.94 |
| Header -Soybean | 25' Flex | 325 hp | 35,000 | 300 | 8 | 0.102 | 1.38 | 4.44 | 0.89 | 3.85 | 10.57 | 1.48 | 16.57 | 28.63 |
| Header -Soybean | 30' Flex | 325 hp | 40,900 | 300 | 8 | 0.085 | 1.15 | 3.70 | 0.87 | 3.21 | 8.93 | 1.44 | 13.81 | 24.19 |
| Header -Soybean | 35' Flex | 355 hp | 47,000 | 300 | 8 | 0.072 | 0.98 | 3.46 | 0.85 | 2.97 | 8.28 | 1.42 | 12.79 | 22.49 |
| Header Wheat/Sorghum | 22' Rigid | 265 hp | 19,800 | 300 | 8 | 0.116 | 1.56 | 4.11 | 0.57 | 4.09 | 10.36 | 0.95 | 17.64 | 28.95 |
| Header Wheat/Sorghum | 25' Rigid | 325 hp | 21,000 | 300 | 8 | 0.102 | 1.38 | 4.44 | 0.53 | 3.85 | 10.21 | 0.89 | 16.57 | 27.68 |
| Header Wheat/Sorghum | 30' Rigid | 325 hp | 25,700 | 300 | 8 | 0.085 | 1.15 | 3.70 | 0.54 | 3.21 | 8.61 | 0.90 | 13.81 | 23.33 |
| Land Plane | 50'x16' | MFWD 190 | 14,300 | 200 | 10 | 0.151 | 2.04 | 3.85 | 0.43 | 0.82 | 7.16 | 1.26 | 5.72 | 14.16 |
| Levee Pull & Seed | 8 Blade | MFWD 170 | 10,400 | 100 | 10 | 0.003 | 0.04 | 0.08 | 0.00 | 0.01 | 0.15 | 0.04 | 0.11 | 0.31 |
| Levee Pull (1m/80a) | 8 blade | MFWD 170 | 7,180 | 100 | 10 | 0.003 | 0.04 | 0.08 | 0.00 | 0.01 | 0.15 | 0.02 | 0.11 | 0.29 |
| Levee Splitter (1/80) | 32" | MFWD 150 | 7,180 | 100 | 10 | 0.004 | 0.05 | 0.08 | 0.00 | 0.01 | 0.16 | 0.03 | 0.11 | 0.31 |
| Module Builder | 4R-38 (250) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 5.81 | 6.55 | 2.23 | 1.40 | 16.01 | 5.06 | 9.73 | 30.81 |
| Module Builder | 4R-38 (350) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 5.81 | 6.55 | 2.23 | 1.40 | 16.01 | 5.06 | 9.73 | 30.81 |
| Module Builder | 4R2x1 (350) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 3.88 | 4.38 | 1.49 | 0.94 | 10.70 | 3.38 | 6.50 | 20.59 |
| Module Builder | 6R-30 (355) | MFWD 190 | 34,700 | 200 | 10 | 0.218 | 4.92 | 5.54 | 1.89 | 1.19 | 13.56 | 4.28 | 8.24 | 26.09 |
| Module Builder | 6R-38 (355) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 3.88 | 4.38 | 1.49 | 0.94 | 10.70 | 3.38 | 6.50 | 20.59 |
| NT Grain Drill | 10' | 2WD 130 | 34,100 | 150 | 8 | 0.235 | 5.31 | 4.10 | 3.01 | 0.75 | 13.19 | 6.40 | 5.03 | 24.64 |
| NT Grain Drill | 12' | 2WD 130 | 47,900 | 150 | 8 | 0.163 | 3.69 | 2.84 | 2.94 | 0.52 | 10.00 | 6.25 | 3.49 | 19.75 |
| NT Grain Drill | 15' | MFWD 150 | 55,200 | 150 | 8 | 0.130 | 2.95 | 2.62 | 2.71 | 0.53 | 8.82 | 5.76 | 3.53 | 18.12 |
| NT Grain Drill | 20' | MFWD 170 | 71,200 | 150 | 8 | 0.098 | 2.21 | 2.23 | 2.62 | 0.45 | 7.52 | 5.57 | 3.13 | 16.23 |
| NT Grain Drill | 24' | MFWD 190 | 90,400 | 150 | 8 | 0.081 | 1.84 | 2.08 | 2.77 | 0.44 | 7.15 | 5.89 | 3.09 | 16.14 |
| NT Grain Drill | 30' | MFWD 225 | 103,000 | 150 | 8 | 0.065 | 1.47 | 1.97 | 2.52 | 0.39 | 6.36 | 5.37 | 2.69 | 14.44 |
| NT Grain Drill & Pre | 10' | 2WD 130 | 41,400 | 150 | 8 | 0.211 | 4.77 | 3.68 | 3.28 | 0.68 | 12.41 | 6.98 | 4.52 | 23.92 |
| NT Grain Drill & Pre | 12' | 2WD 130 | 55,200 | 150 | 8 | 0.176 | 3.97 | 3.06 | 3.64 | 0.56 | 11.26 | 7.75 | 3.76 | 22.78 |
| NT Grain Drill & Pre | 15' | MFWD 150 | 62,400 | 150 | 8 | 0.141 | 3.18 | 2.83 | 3.30 | 0.57 | 9.88 | 7.01 | 3.80 | 20.70 |
| NT Grain Drill & Pre | 20' | MFWD 170 | 78,400 | 150 | 8 | 0.105 | 2.38 | 2.40 | 3.10 | 0.48 | 8.39 | 6.61 | 3.37 | 18.38 |
| NT Grain Drill & Pre | 24' | MFWD 190 | 97,700 | 150 | 8 | 0.088 | 1.98 | 2.24 | 3.22 | 0.48 | 7.94 | 6.86 | 3.32 | 18.13 |
| NT Grain Drill & Pre | 30' | MFWD 225 | 111,000 | 150 | 8 | 0.070 | 1.59 | 2.12 | 2.93 | 0.42 | 7.07 | 6.23 | 2.90 | 16.21 |
| NT Plant&Pre-Folding | 8R-38 | MFWD 170 | 65,000 | 150 | 8 | 0.083 | 1.88 | 1.90 | 2.03 | 0.38 | 6.21 | 4.33 | 2.67 | 13.21 |
| NT Plant&Pre-Folding | 8R-38 2x1 | MFWD 170 | 102,000 | 150 | 8 | 0.055 | 1.25 | 1.26 | 2.12 | 0.25 | 4.90 | 4.52 | 1.77 | 11.21 |
| NT Plant&Pre-Folding | 12R-20 | MFWD 190 | 78,300 | 150 | 8 | 0.105 | 2.38 | 2.68 | 3.10 | 0.57 | 8.76 | 6.60 | 3.99 | 19.35 |
| NT Plant&Pre-Folding | 12R-30 | MFWD 190 | 87,500 | 150 | 8 | 0.070 | 1.59 | 1.79 | 2.31 | 0.38 | 6.08 | 4.91 | 2.66 | 13.66 |
| NT Plant&Pre-Folding | 12R-38 | MFWD 190 | 102,000 | 150 | 8 | 0.055 | 1.25 | 1.41 | 2.12 | 0.30 | 5.10 | 4.52 | 2.10 | 11.73 |
| NT Plant&Pre-Folding | 16R-30 | MFWD 190 | 130,000 | 150 | 8 | 0.052 | 1.19 | 1.34 | 2.57 | 0.28 | 5.40 | 5.48 | 1.99 | 12.88 |
| NT Plant&Pre-Folding | 23R-15 | MFWD 190 | 163,000 | 150 | 8 | 0.073 | 1.65 | 1.86 | 4.48 | 0.40 | 8.41 | 9.54 | 2.77 | 20.73 |
| NT Plant&Pre-Folding | 24R-20 | MFWD 190 | 182,000 | 150 | 8 | 0.052 | 1.19 | 1.34 | 3.60 | 0.28 | 6.43 | 7.67 | 1.99 | 16.10 |
| NT Plant&Pre-Folding | 24R-30 | MFWD 190 | 200,000 | 150 | 8 | 0.035 | 0.79 | 0.89 | 2.64 | 0.19 | 4.52 | 5.62 | 1.33 | 11.48 |
| NT Plant&Pre-Folding | 31R-15 | MFWD 225 | 194,000 | 150 | 8 | 0.054 | 1.23 | 1.64 | 3.97 | 0.32 | 7.18 | 8.45 | 2.25 | 17.88 |
| NT Plant&Pre-Folding | 32R-15 | MFWD 225 | 210,000 | 150 | 8 | 0.052 | 1.19 | 1.59 | 4.16 | 0.31 | 7.26 | 8.85 | 2.18 | 18.29 |
| NT Plant&Pre-Rigid | 4R-30 | 2WD 130 | 29,300 | 150 | 8 | 0.211 | 4.77 | 3.68 | 2.32 | 0.68 | 11.45 | 4.94 | 4.52 | 20.92 |
| NT Plant&Pre-Rigid | 4R-38 | 2WD 130 | 35,200 | 150 | 8 | 0.166 | 3.75 | 2.89 | 2.19 | 0.53 | 9.39 | 4.67 | 3.56 | 17.62 |
| NT Plant&Pre-Rigid | 6R-30 | MFWD 150 | 43,100 | 150 | 8 | 0.141 | 3.18 | 2.83 | 2.27 | 0.57 | 8.86 | 4.84 | 3.80 | 17.51 |
| NT Plant&Pre-Rigid | 6R-38 | MFWD 150 | 41,800 | 150 | 8 | 0.111 | 2.51 | 2.23 | 1.74 | 0.45 | 6.94 | 3.71 | 3.00 | 13.66 |
| NT Plant&Pre-Rigid | 8R-30 | MFWD 170 | 53,100 | 150 | 8 | 0.105 | 2.38 | 2.40 | 2.10 | 0.48 | 7.38 | 4.47 | 3.37 | 15.24 |
| NT Plant&Pre-Rigid | 8R-38 | MFWD 170 | 50,600 | 150 | 8 | 0.083 | 1.88 | 1.90 | 1.58 | 0.38 | 5.76 | 3.37 | 2.67 | 11.80 |
| NT Plant&Pre-Rigid | 11R-15 | MFWD 170 | 63,500 | 150 | 8 | 0.143 | 3.24 | 3.27 | 3.42 | 0.66 | 10.61 | 7.28 | 4.59 | 22.49 |
| NT Plant&Pre-Rigid | 11R-20 | MFWD 170 | 62,300 | 150 | 8 | 0.115 | 2.60 | 2.62 | 2.70 | 0.53 | 8.47 | 5.74 | 3.69 | 17.90 |
| NT Plant&Pre-Rigid | 12R-20 | MFWD 190 | 65,000 | 150 | 8 | 0.105 | 2.38 | 2.68 | 2.57 | 0.57 | 8.23 | 5.48 | 3.99 | 17.70 |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 190 | 79,300 | 150 | 8 | 0.070 | 1.59 | 1.79 | 2.09 | 0.38 | 5.86 | 4.45 | 2.66 | 12.98 |
| NT Plant&Pre-Rigid | 15R-15 | MFWD 190 | 80,900 | 150 | 8 | 0.113 | 2.55 | 2.87 | 3.43 | 0.61 | 9.47 | 7.29 | 4.27 | 21.04 |
| NT Plant&Pre-TwinRow | 12R-30/40 | MFWD 225 | 148,000 | 150 | 8 | 0.055 | 1.25 | 1.67 | 3.08 | 0.33 | 6.35 | 6.56 | 2.29 | 15.21 |
| NT Plant&Pre-TwinRow | 8R-30/40 | MFWD 225 | 121,000 | 150 | 8 | 0.083 | 1.88 | 2.51 | 3.79 | 0.49 | 8.69 | 8.06 | 3.44 | 20.20 |
| NT Plant-Folding | 8R-38 | MFWD 170 | 57,800 | 150 | 8 | 0.077 | 1.75 | 1.76 | 1.68 | 0.35 | 5.56 | 3.57 | 2.48 | 11.61 |
| NT Plant-Folding | 8R-38 2x1 | MFWD 170 | 93,000 | 150 | 8 | 0.051 | 1.16 | 1.17 | 1.80 | 0.23 | 4.38 | 3.83 | 1.65 | 9.86 |
| NT Plant-Folding | 12R-20 | MFWD 190 | 71,100 | 150 | 8 | 0.098 | 2.21 | 2.49 | 2.61 | 0.53 | 7.86 | 5.56 | 3.70 | 17.14 |
| NT Plant-Folding | 12R-30 | MFWD 190 | 78,900 | 150 | 8 | 0.065 | 1.47 | 1.66 | 1.93 | 0.35 | 5.43 | 4.11 | 2.47 | 12.03 |
| NT Plant-Folding | 12R-38 | MFWD 190 | 93,000 | 150 | 8 | 0.051 | 1.16 | 1.31 | 1.80 | 0.28 | 4.56 | 3.83 | 1.95 | 10.35 |
| NT Plant-Folding | 16R-30 | MFWD 190 | 122,000 | 150 | 8 | 0.049 | 1.10 | 1.24 | 2.24 | 0.26 | 4.87 | 4.77 | 1.85 | 11.50 |
| NT Plant-Folding | 23R-15 | MFWD 190 | 155,000 | 150 | 8 | 0.068 | 1.53 | 1.73 | 3.96 | 0.37 | 7.61 | 8.42 | 2.57 | 18.61 |
| NT Plant-Folding | 24R-20 | MFWD 190 | 174,000 | 150 | 8 | 0.049 | 1.10 | 1.24 | 3.20 | 0.26 | 5.83 | 6.81 | 1.85 | 14.49 |
| NT Plant-Folding | 24R-30 | MFWD 190 | 184,000 | 150 | 8 | 0.032 | 0.73 | 0.83 | 2.25 | 0.17 | 4.00 | 4.80 | 1.23 | 10.04 |
| NT Plant-Folding | 31R-15 | MFWD 225 | 185,000 | 150 | 8 | 0.050 | 1.14 | 1.52 | 3.52 | 0.30 | 6.49 | 7.48 | 2.09 | 16.07 |
| NT Plant-Folding | 32R-15 | MFWD 225 | 201,000 | 150 | 8 | 0.049 | 1.10 | 1.47 | 3.70 | 0.29 | 6.58 | 7.86 | 2.02 | 16.47 |
| NT Plant-Rigid | 4R-30 | 2WD 130 | 22,100 | 150 | 8 | 0.196 | 4.43 | 3.41 | 1.62 | 0.63 | 10.11 | 3.46 | 4.19 | 17.77 |
| NT Plant-Rigid | 4R-38 | 2WD 130 | 27,900 | 150 | 8 | 0.154 | 3.49 | 2.69 | 1.61 | 0.49 | 8.29 | 3.44 | 3.30 | 15.04 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- Imp. P.U. | Total Direct | --Fixed-- Imp. P.U. | Total Cost | | |
|-----------------------|-----------|------------|----------------|------------|-------------|-----------|---------------|-------|------------------------|--------------|------------------------|------------|-------|--------|
| | | | dollars | hours | years | hr/ac | ---\$/acre--- | | | | | | | |
| NT Plant-Rigid | 6R-30 | MFWD 150 | 35,800 | 150 | 8 | 0.130 | 2.95 | 2.62 | 1.75 | 0.53 | 7.87 | 3.73 | 3.53 | 15.14 |
| NT Plant-Rigid | 6R-38 | MFWD 150 | 34,500 | 150 | 8 | 0.103 | 2.33 | 2.07 | 1.33 | 0.41 | 6.16 | 2.84 | 2.78 | 11.79 |
| NT Plant-Rigid | 8R-30 | MFWD 170 | 45,800 | 150 | 8 | 0.098 | 2.21 | 2.23 | 1.68 | 0.45 | 6.59 | 3.58 | 3.13 | 13.31 |
| NT Plant-Rigid | 8R-38 | MFWD 170 | 43,300 | 150 | 8 | 0.077 | 1.75 | 1.76 | 1.26 | 0.35 | 5.13 | 2.68 | 2.48 | 10.29 |
| NT Plant-Rigid | 11R-15 | MFWD 170 | 56,200 | 150 | 8 | 0.133 | 3.01 | 3.03 | 2.81 | 0.61 | 9.48 | 5.98 | 4.26 | 19.74 |
| NT Plant-Rigid | 11R-20 | MFWD 170 | 55,000 | 150 | 8 | 0.107 | 2.42 | 2.44 | 2.21 | 0.49 | 7.57 | 4.70 | 3.42 | 15.71 |
| NT Plant-Rigid | 12R-20 | MFWD 190 | 57,800 | 150 | 8 | 0.098 | 2.21 | 2.49 | 2.12 | 0.53 | 7.37 | 4.52 | 3.70 | 15.61 |
| NT Plant-Rigid | 12R-30 | MFWD 190 | 70,700 | 150 | 8 | 0.065 | 1.47 | 1.66 | 1.73 | 0.35 | 5.23 | 3.69 | 2.47 | 11.40 |
| NT Plant-Rigid | 15R-15 | MFWD 190 | 72,300 | 150 | 8 | 0.105 | 2.37 | 2.67 | 2.84 | 0.57 | 8.46 | 6.05 | 3.96 | 18.48 |
| NT Plant-TwinRow | 12R-30/40 | MFWD 225 | 139,000 | 150 | 8 | 0.051 | 1.16 | 1.55 | 2.69 | 0.30 | 5.72 | 5.72 | 2.13 | 13.58 |
| NT Plant-TwinRow | 8R-30/40 | MFWD 225 | 114,000 | 150 | 8 | 0.077 | 1.75 | 2.33 | 3.31 | 0.46 | 7.87 | 7.05 | 3.20 | 18.12 |
| Peanut Cond. & Lifter | 6-Row | MFWD 190 | 13,300 | 300 | 20 | 0.100 | 1.35 | 2.54 | 0.22 | 0.54 | 4.66 | 0.37 | 3.77 | 8.81 |
| Peanut Conditioner | 6-Row | MFWD 190 | 15,300 | 300 | 20 | 0.100 | 1.35 | 2.54 | 0.30 | 0.54 | 4.74 | 0.39 | 3.77 | 8.92 |
| Peanut Dig/Invertor | 4R-30 | MFWD 190 | 29,800 | 300 | 15 | 0.235 | 3.18 | 5.99 | 1.74 | 1.28 | 12.22 | 2.34 | 8.90 | 23.47 |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 29,800 | 300 | 15 | 0.186 | 2.51 | 4.73 | 1.38 | 1.01 | 9.65 | 1.85 | 7.03 | 18.53 |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 43,400 | 300 | 15 | 0.124 | 1.67 | 3.15 | 0.94 | 0.67 | 6.45 | 1.79 | 4.68 | 12.93 |
| Peanut Dump Cart | 6-Row | MFWD 190 | 48,500 | 300 | 20 | 0.310 | 4.18 | 7.88 | 0.87 | 1.69 | 14.64 | 4.16 | 11.70 | 30.51 |
| Peanut Harvester | 4R-30 | MFWD 225 | 137,000 | 300 | 20 | 0.849 | 11.48 | 25.59 | 6.59 | 5.07 | 48.75 | 30.22 | 35.04 | 114.02 |
| Peanut Harvester | 4R-38 | MFWD 225 | 137,000 | 300 | 20 | 0.934 | 12.62 | 28.14 | 7.25 | 5.57 | 53.60 | 34.33 | 38.52 | 126.46 |
| Peanut Harvester | 6R-38 | MFWD 225 | 151,000 | 300 | 20 | 0.625 | 8.44 | 18.81 | 4.56 | 3.73 | 35.55 | 25.30 | 25.76 | 86.63 |
| Peanut Lifter | 6-Row | MFWD 225 | 6,500 | 300 | 20 | 0.100 | 1.35 | 3.01 | 0.13 | 0.59 | 5.09 | 0.16 | 4.12 | 9.38 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 190 | 91,000 | 150 | 8 | 0.080 | 1.81 | 2.04 | 2.74 | 0.43 | 7.04 | 5.83 | 3.03 | 15.91 |
| Peanut Plt&Pre Rigid | 8R-30 | MFWD 190 | 46,000 | 150 | 8 | 0.152 | 3.44 | 3.88 | 2.63 | 0.83 | 10.80 | 5.60 | 5.77 | 22.17 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 190 | 43,400 | 150 | 8 | 0.120 | 2.72 | 3.07 | 1.96 | 0.66 | 8.42 | 4.17 | 4.56 | 17.16 |
| Pipe Spool 160ac | 1/4m roll | 2WD 130 | 3,600 | 15 | 12 | 0.003 | 0.09 | 0.05 | 0.00 | 0.01 | 0.16 | 0.07 | 0.06 | 0.31 |
| Pipe Trailer 1m/160a | 30' | 2WD 130 | 1,380 | 100 | 15 | 0.003 | 0.18 | 0.06 | 0.00 | 0.01 | 0.26 | 0.00 | 0.08 | 0.35 |
| Plant & Pre-Folding | 8R-38 | MFWD 170 | 57,900 | 150 | 8 | 0.080 | 1.81 | 1.82 | 1.74 | 0.37 | 5.75 | 3.70 | 2.56 | 12.02 |
| Plant & Pre-Folding | 8R-38 2x1 | MFWD 170 | 91,000 | 150 | 8 | 0.053 | 1.20 | 1.21 | 1.82 | 0.24 | 4.49 | 3.87 | 1.70 | 10.07 |
| Plant & Pre-Folding | 12R-20 | MFWD 190 | 67,600 | 150 | 8 | 0.101 | 2.29 | 2.58 | 2.57 | 0.55 | 8.00 | 5.47 | 3.83 | 17.31 |
| Plant & Pre-Folding | 12R-30 | MFWD 190 | 76,800 | 150 | 8 | 0.067 | 1.52 | 1.72 | 1.94 | 0.37 | 5.56 | 4.14 | 2.55 | 12.26 |
| Plant & Pre-Folding | 12R-38 | MFWD 190 | 91,000 | 150 | 8 | 0.053 | 1.20 | 1.35 | 1.82 | 0.29 | 4.68 | 3.87 | 2.01 | 10.57 |
| Plant & Pre-Folding | 16R-30 | MFWD 190 | 116,000 | 150 | 8 | 0.050 | 1.14 | 1.29 | 2.20 | 0.27 | 4.92 | 4.69 | 1.91 | 11.53 |
| Plant & Pre-Folding | 23R-15 | MFWD 190 | 143,000 | 150 | 8 | 0.070 | 1.59 | 1.79 | 3.78 | 0.38 | 7.55 | 8.03 | 2.66 | 18.25 |
| Plant & Pre-Folding | 24R-20 | MFWD 190 | 161,000 | 150 | 8 | 0.050 | 1.14 | 1.29 | 3.06 | 0.27 | 5.77 | 6.51 | 1.91 | 14.21 |
| Plant & Pre-Folding | 24R-30 | MFWD 190 | 178,000 | 150 | 8 | 0.033 | 0.76 | 0.86 | 2.25 | 0.18 | 4.06 | 4.80 | 1.27 | 10.15 |
| Plant & Pre-Folding | 31R-15 | MFWD 225 | 166,000 | 150 | 8 | 0.052 | 1.18 | 1.57 | 3.26 | 0.31 | 6.34 | 6.94 | 2.16 | 15.45 |
| Plant & Pre-Folding | 32R-15 | MFWD 225 | 181,000 | 150 | 8 | 0.050 | 1.14 | 1.52 | 3.44 | 0.30 | 6.42 | 7.32 | 2.09 | 15.84 |
| Plant & Pre-Rigid | 4R-30 | 2WD 130 | 25,800 | 150 | 8 | 0.203 | 4.58 | 3.53 | 1.96 | 0.65 | 10.73 | 4.17 | 4.34 | 19.25 |
| Plant & Pre-Rigid | 4R-38 | 2WD 130 | 31,600 | 150 | 8 | 0.159 | 3.60 | 2.78 | 1.89 | 0.51 | 8.80 | 4.02 | 3.41 | 16.24 |
| Plant & Pre-Rigid | 6R-30 | MFWD 150 | 25,900 | 150 | 8 | 0.135 | 3.05 | 2.71 | 1.31 | 0.54 | 7.63 | 2.79 | 3.65 | 14.08 |
| Plant & Pre-Rigid | 6R-38 | MFWD 150 | 36,400 | 150 | 8 | 0.106 | 2.41 | 2.14 | 1.45 | 0.43 | 6.45 | 3.10 | 2.88 | 12.43 |
| Plant & Pre-Rigid | 8R-30 | MFWD 170 | 46,000 | 150 | 8 | 0.101 | 2.29 | 2.31 | 1.75 | 0.46 | 6.82 | 3.72 | 3.24 | 13.79 |
| Plant & Pre-Rigid | 8R-38 | MFWD 170 | 43,400 | 150 | 8 | 0.080 | 1.81 | 1.82 | 1.30 | 0.37 | 5.31 | 2.77 | 2.56 | 10.65 |
| Plant & Pre-Rigid | 11R-15 | MFWD 170 | 53,700 | 150 | 8 | 0.148 | 3.34 | 3.37 | 2.98 | 0.68 | 10.38 | 6.34 | 4.73 | 21.46 |
| Plant & Pre-Rigid | 11R-20 | MFWD 170 | 52,500 | 150 | 8 | 0.110 | 2.50 | 2.52 | 2.18 | 0.51 | 7.72 | 4.64 | 3.54 | 15.91 |
| Plant & Pre-Rigid | 12R-20 | MFWD 190 | 54,300 | 150 | 8 | 0.101 | 2.29 | 2.58 | 2.06 | 0.55 | 7.49 | 4.39 | 3.83 | 15.72 |
| Plant & Pre-Rigid | 12R-30 | MFWD 190 | 68,600 | 150 | 8 | 0.067 | 1.52 | 1.72 | 1.74 | 0.37 | 5.36 | 3.70 | 2.55 | 11.61 |
| Plant & Pre-Rigid | 15R-15 | MFWD 190 | 67,500 | 150 | 8 | 0.108 | 2.45 | 2.76 | 2.74 | 0.59 | 8.55 | 5.84 | 4.10 | 18.50 |
| Plant & Pre-TwinRow | 12R-30/40 | MFWD 225 | 137,000 | 150 | 8 | 0.053 | 1.20 | 1.60 | 2.74 | 0.31 | 5.87 | 5.83 | 2.20 | 13.91 |
| Plant & Pre-TwinRow | 8R-30/40 | MFWD 225 | 114,000 | 150 | 8 | 0.080 | 1.81 | 2.41 | 3.43 | 0.47 | 8.13 | 7.29 | 3.30 | 18.74 |
| Plant - Folding | 8R-38 | MFWD 170 | 50,600 | 150 | 8 | 0.074 | 1.68 | 1.69 | 1.41 | 0.34 | 5.13 | 3.00 | 2.38 | 10.52 |
| Plant - Folding | 8R-38 2x1 | MFWD 170 | 82,300 | 150 | 8 | 0.049 | 1.11 | 1.12 | 1.53 | 0.22 | 4.00 | 3.25 | 1.58 | 8.85 |
| Plant - Folding | 12R-20 | MFWD 190 | 60,400 | 150 | 8 | 0.094 | 2.12 | 2.39 | 2.13 | 0.51 | 7.17 | 4.54 | 3.56 | 15.27 |
| Plant - Folding | 12R-30 | MFWD 190 | 68,200 | 150 | 8 | 0.062 | 1.41 | 1.59 | 1.60 | 0.34 | 4.96 | 3.41 | 2.37 | 10.76 |
| Plant - Folding | 12R-38 | MFWD 190 | 82,300 | 150 | 8 | 0.049 | 1.11 | 1.26 | 1.53 | 0.27 | 4.18 | 3.25 | 1.87 | 9.31 |
| Plant - Folding | 16R-30 | MFWD 190 | 10,700 | 150 | 8 | 0.047 | 1.06 | 1.19 | 0.18 | 0.25 | 2.70 | 0.40 | 1.78 | 4.89 |
| Plant - Folding | 23R-15 | MFWD 190 | 134,000 | 150 | 8 | 0.065 | 1.47 | 1.66 | 3.29 | 0.35 | 6.79 | 6.99 | 2.47 | 16.25 |
| Plant - Folding | 24R-20 | MFWD 190 | 152,000 | 150 | 8 | 0.047 | 1.06 | 1.19 | 2.68 | 0.25 | 5.20 | 5.71 | 1.78 | 12.70 |
| Plant - Folding | 24R-30 | MFWD 190 | 178,000 | 150 | 8 | 0.031 | 0.70 | 0.79 | 2.09 | 0.17 | 3.77 | 4.45 | 1.18 | 9.42 |
| Plant - Folding | 31R-15 | MFWD 225 | 157,000 | 150 | 8 | 0.048 | 1.09 | 1.46 | 2.86 | 0.29 | 5.72 | 6.09 | 2.00 | 13.83 |
| Plant - Folding | 32R-15 | MFWD 225 | 173,000 | 150 | 8 | 0.047 | 1.06 | 1.41 | 3.05 | 0.28 | 5.82 | 6.50 | 1.94 | 14.26 |
| Plant - Rigid | 4R-30 | 2WD 130 | 18,500 | 150 | 8 | 0.188 | 4.25 | 3.28 | 1.30 | 0.60 | 9.45 | 2.78 | 4.03 | 16.26 |
| Plant - Rigid | 4R-38 | 2WD 130 | 24,300 | 150 | 8 | 0.148 | 3.35 | 2.58 | 1.35 | 0.47 | 7.76 | 2.87 | 3.17 | 13.81 |
| Plant - Rigid | 6R-30 | MFWD 150 | 30,500 | 150 | 8 | 0.125 | 2.83 | 2.52 | 1.43 | 0.51 | 7.30 | 3.05 | 3.39 | 13.75 |
| Plant - Rigid | 6R-38 | MFWD 150 | 29,200 | 150 | 8 | 0.099 | 2.24 | 1.99 | 1.08 | 0.40 | 5.72 | 2.31 | 2.67 | 10.71 |
| Plant - Rigid | 8R-30 | MFWD 170 | 38,700 | 150 | 8 | 0.094 | 2.12 | 2.14 | 1.36 | 0.43 | 6.07 | 2.90 | 3.01 | 11.99 |
| Plant - Rigid | 8R-38 | MFWD 170 | 36,200 | 150 | 8 | 0.074 | 1.68 | 1.69 | 1.01 | 0.34 | 4.73 | 2.15 | 2.38 | 9.26 |
| Plant - Rigid | 11R-15 | MFWD 170 | 46,400 | 150 | 8 | 0.137 | 3.10 | 3.13 | 2.39 | 0.63 | 9.26 | 5.09 | 4.39 | 18.75 |
| Plant - Rigid | 11R-20 | MFWD 170 | 45,200 | 150 | 8 | 0.103 | 2.32 | 2.34 | 1.74 | 0.47 | 6.89 | 3.71 | 3.29 | 13.89 |
| Plant - Rigid | 12R-20 | MFWD 190 | 47,100 | 150 | 8 | 0.094 | 2.12 | 2.39 | 1.66 | 0.51 | 6.70 | 3.54 | 3.56 | 13.80 |
| Plant - Rigid | 12R-30 | MFWD 190 | 59,900 | 150 | 8 | 0.062 | 1.41 | 1.59 | 1.41 | 0.34 | 4.77 | 3.00 | 2.37 | 10.14 |
| Plant - Rigid | 15R-15 | 2WD 150 | 58,900 | 150 | 8 | 0.094 | 2.12 | 1.89 | 2.08 | 0.32 | 6.42 | 4.42 | 2.13 | 12.98 |
| Plant - TwinRow | 12R-30/40 | MFWD 225 | 128,000 | 150 | 8 | 0.049 | 1.11 | 1.49 | 2.38 | 0.29 | 5.29 | 5.06 | 2.04 | 12.40 |
| Plant - TwinRow | 8R-30/40 | MFWD 225 | 107,000 | 150 | 8 | 0.074 | 1.68 | 2.24 | 2.99 | 0.44 | 7.36 | 6.35 | 3.07 | 16.79 |
| Roller/Cultipacker | 12' | 2WD 130 | 6,910 | 300 | 12 | 0.124 | 1.68 | 2.16 | 0.20 | 0.40 | 4.44 | 0.31 | 2.66 | 7.41 |
| Roller/Cultipacker | 20' | MFWD 150 | 17,000 | 300 | 12 | 0.074 | 1.00 | 1.49 | 0.29 | 0.30 | 3.11 | 0.45 | 2.01 | 5.58 |
| Roller/Cultipacker | 30' | MFWD 170 | 19,100 | 300 | 12 | 0.049 | 0.67 | 1.13 | 0.22 | 0.23 | 2.25 | 0.34 | 1.58 | 4.19 |
| Roller/Cultipacker | 38' | MFWD 225 | 21,300 | 300 | 12 | 0.039 | 0.53 | 1.18 | 0.19 | 0.23 | 2.14 | 0.30 | 1.62 | 4.06 |
| Roller/Stubble | 20' | 2WD 50 | 13,500 | 300 | 12 | 0.074 | 1.00 | 0.49 | 0.23 | 0.05 | 1.79 | 0.36 | 0.35 | 2.51 |
| Roller/Stubble | 32' | MFWD 225 | 22,800 | 300 | 12 | 0.046 | 0.63 | 1.40 | 0.25 | 0.27 | 2.56 | 0.38 | 1.92 | 4.87 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (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----- | | | | | | | |
| Rotary Cutter | 7' | MFWD 130 | 5,245 | 185 | 10 | 0.168 | 2.27 | 2.92 | 0.71 | 0.59 | 6.51 | 0.55 | 3.98 | 11.06 |
| Rotary Cutter | 12' | 2WD 150 | 11,500 | 185 | 10 | 0.098 | 1.32 | 1.97 | 0.91 | 0.33 | 4.54 | 0.71 | 2.22 | 7.48 |
| Rotary Cutter-Flex | 15' | MFWD 150 | 21,100 | 185 | 10 | 0.078 | 1.06 | 1.57 | 1.34 | 0.31 | 4.30 | 1.04 | 2.12 | 7.46 |
| Rotary Cutter-Flex | 20' | MFWD 150 | 29,300 | 185 | 10 | 0.058 | 0.79 | 1.18 | 1.39 | 0.23 | 3.61 | 1.09 | 1.59 | 6.29 |
| Row Cond & Inc-Fold. | 26' | MFWD 190 | 26,600 | 100 | 10 | 0.063 | 1.14 | 1.61 | 0.42 | 0.34 | 3.52 | 1.97 | 2.39 | 7.89 |
| Row Cond & Inc-Fold. | 38' | MFWD 225 | 33,800 | 100 | 10 | 0.043 | 0.78 | 1.30 | 0.36 | 0.25 | 2.71 | 1.71 | 1.79 | 6.22 |
| Row Cond & Inc-Rigid | 13' | 2WD 130 | 16,800 | 100 | 10 | 0.126 | 2.28 | 2.20 | 0.53 | 0.40 | 5.43 | 2.49 | 2.71 | 10.64 |
| Row Cond & Inc-Rigid | 21' | 2WD 170 | 20,700 | 100 | 10 | 0.078 | 1.41 | 1.78 | 0.40 | 0.29 | 3.90 | 1.90 | 2.01 | 7.82 |
| Row Cond & Inc-Rigid | 26' | MFWD 190 | 23,400 | 100 | 10 | 0.026 | 0.48 | 0.67 | 0.15 | 0.14 | 1.45 | 0.72 | 1.00 | 3.19 |
| Row Cond Folding | 26' | MFWD 225 | 19,300 | 100 | 10 | 0.059 | 0.80 | 1.79 | 0.28 | 0.35 | 3.25 | 1.34 | 2.46 | 7.05 |
| Row Cond Folding | 38' | MFWD 225 | 25,800 | 100 | 10 | 0.040 | 0.55 | 1.23 | 0.26 | 0.24 | 2.29 | 1.23 | 1.68 | 5.20 |
| Row Cond Rigid | 13' | 2WD 130 | 9,540 | 100 | 10 | 0.119 | 1.61 | 2.07 | 0.28 | 0.38 | 4.36 | 1.33 | 2.55 | 8.24 |
| Row Cond Rigid | 21' | 2WD 170 | 13,400 | 100 | 10 | 0.073 | 0.99 | 1.68 | 0.24 | 0.27 | 3.20 | 1.15 | 1.89 | 6.26 |
| Row Cond Rigid | 26' | MFWD 190 | 16,200 | 100 | 10 | 0.059 | 0.80 | 1.51 | 0.24 | 0.32 | 2.89 | 1.13 | 2.25 | 6.28 |
| Row Cond./Roll-Fol | 30' | MFWD 190 | 35,600 | 160 | 10 | 0.062 | 0.84 | 1.58 | 0.55 | 0.34 | 3.33 | 1.62 | 2.36 | 7.31 |
| Row Cond./Roll-Fold. | 26' | MFWD 190 | 26,800 | 160 | 10 | 0.072 | 0.97 | 1.83 | 0.48 | 0.39 | 3.68 | 1.41 | 2.72 | 7.82 |
| Row Cond./Roll-Fold. | 40' | MFWD 225 | 23,700 | 160 | 10 | 0.046 | 0.63 | 1.41 | 0.27 | 0.27 | 2.60 | 0.81 | 1.93 | 5.34 |
| Row Cond./Roll-Rig | 21' | MFWD 190 | 23,000 | 160 | 10 | 0.089 | 1.20 | 2.27 | 0.51 | 0.48 | 4.47 | 1.50 | 3.37 | 9.35 |
| Row Cond./Roll-Rig | 26' | MFWD 190 | 25,800 | 160 | 10 | 0.072 | 0.97 | 1.83 | 0.46 | 0.39 | 3.66 | 1.35 | 2.72 | 7.75 |
| Spin Spreader | 5 ton | MFWD 190 | 12,400 | 100 | 8 | 0.042 | 0.94 | 1.07 | 0.29 | 0.23 | 2.54 | 0.65 | 1.58 | 4.78 |
| Spray (ATV Ropewick) | 75" | 800 CC | 720 | 200 | 8 | 0.260 | 4.69 | 0.45 | 0.08 | 0.49 | 5.73 | 0.11 | 2.13 | 7.98 |
| Spray (ATV) | 20' | 800 CC | 1,700 | 200 | 8 | 0.084 | 1.52 | 0.14 | 0.06 | 0.16 | 1.90 | 0.08 | 0.69 | 2.68 |
| Spray (Band) | 27' Fold | MFWD 170 | 7,270 | 200 | 8 | 0.062 | 1.13 | 1.42 | 0.21 | 0.28 | 3.06 | 0.28 | 2.00 | 5.34 |
| Spray (Band) | 40' Fold | MFWD 170 | 8,630 | 200 | 8 | 0.042 | 0.76 | 0.96 | 0.17 | 0.19 | 2.09 | 0.22 | 1.35 | 3.67 |
| Spray (Band) | 50' Fold | MFWD 170 | 13,700 | 200 | 8 | 0.033 | 0.61 | 0.77 | 0.21 | 0.15 | 1.75 | 0.28 | 1.08 | 3.12 |
| Spray (Band) | 60' Fold | MFWD 170 | 15,600 | 200 | 8 | 0.028 | 0.50 | 0.64 | 0.20 | 0.13 | 1.48 | 0.27 | 0.90 | 2.66 |
| Spray (Bcast/HB) | 13' Rigid | MFWD 150 | 6,760 | 200 | 8 | 0.130 | 2.34 | 2.61 | 0.41 | 0.52 | 5.90 | 0.54 | 3.51 | 9.96 |
| Spray (Bcast/HB) | 20' Rigid | MFWD 150 | 7,920 | 200 | 8 | 0.084 | 1.52 | 1.69 | 0.31 | 0.34 | 3.88 | 0.41 | 2.28 | 6.58 |
| Spray (Bcast/HB) | 27' Fold | MFWD 170 | 15,100 | 200 | 8 | 0.062 | 1.13 | 1.42 | 0.44 | 0.28 | 3.29 | 0.58 | 2.00 | 5.88 |
| Spray (Bcast/HB) | 27' Rigid | MFWD 170 | 9,570 | 200 | 8 | 0.062 | 1.13 | 1.42 | 0.28 | 0.28 | 3.12 | 0.37 | 2.00 | 5.50 |
| Spray (Bcast/HB) | 30' Fold | MFWD 170 | 18,600 | 200 | 8 | 0.056 | 1.01 | 1.28 | 0.49 | 0.26 | 3.05 | 0.65 | 1.80 | 5.50 |
| Spray (Bcast/HB) | 40' Fold | MFWD 170 | 21,800 | 200 | 8 | 0.042 | 0.76 | 0.96 | 0.43 | 0.19 | 2.35 | 0.57 | 1.35 | 4.27 |
| Spray (Broadcast) | 27' | MFWD 170 | 7,270 | 200 | 8 | 0.062 | 1.13 | 1.42 | 0.21 | 0.28 | 3.06 | 0.28 | 2.00 | 5.34 |
| Spray (Broadcast) | 40' | MFWD 170 | 8,630 | 200 | 8 | 0.042 | 0.76 | 0.96 | 0.17 | 0.19 | 2.09 | 0.22 | 1.35 | 3.67 |
| Spray (Broadcast) | 50' | MFWD 170 | 13,700 | 200 | 8 | 0.033 | 0.61 | 0.77 | 0.21 | 0.15 | 1.75 | 0.28 | 1.08 | 3.12 |
| Spray (Broadcast) | 60' | MFWD 170 | 15,600 | 200 | 8 | 0.028 | 0.50 | 0.64 | 0.20 | 0.13 | 1.48 | 0.27 | 0.90 | 2.66 |
| Spray (Direct/Hood) | 8R-30 | MFWD 170 | 20,000 | 200 | 8 | 0.084 | 1.52 | 1.92 | 0.79 | 0.39 | 4.63 | 1.05 | 2.70 | 8.39 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 21,500 | 200 | 8 | 0.066 | 1.20 | 1.52 | 0.67 | 0.30 | 3.71 | 0.89 | 2.13 | 6.74 |
| Spray (Direct/Hood) | 12R-30 | MFWD 170 | 24,800 | 200 | 8 | 0.056 | 1.01 | 1.28 | 0.65 | 0.26 | 3.21 | 0.87 | 1.80 | 5.89 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 26,600 | 200 | 8 | 0.044 | 0.80 | 1.01 | 0.55 | 0.20 | 2.57 | 0.73 | 1.42 | 4.73 |
| Spray (Direct/Layby) | 8R-30 | MFWD 170 | 11,300 | 200 | 8 | 0.084 | 1.52 | 1.92 | 0.44 | 0.39 | 4.29 | 0.59 | 2.70 | 7.58 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 11,300 | 200 | 8 | 0.066 | 1.20 | 1.52 | 0.35 | 0.30 | 3.39 | 0.47 | 2.13 | 5.99 |
| Spray (Direct/Layby) | 8R-38 2x1 | MFWD 170 | 14,900 | 200 | 8 | 0.044 | 0.80 | 1.01 | 0.31 | 0.20 | 2.33 | 0.41 | 1.42 | 4.16 |
| Spray (Direct/Layby) | 12R-30 | MFWD 170 | 14,900 | 200 | 8 | 0.056 | 1.01 | 1.28 | 0.39 | 0.26 | 2.95 | 0.52 | 1.80 | 5.28 |
| Spray (Direct/Layby) | 12R-38 | MFWD 170 | 14,900 | 200 | 8 | 0.044 | 0.80 | 1.01 | 0.31 | 0.20 | 2.33 | 0.41 | 1.42 | 4.16 |
| Spray (Direct/Layby) | 16R-20 | MFWD 225 | 17,100 | 200 | 8 | 0.062 | 1.13 | 1.88 | 0.50 | 0.37 | 3.89 | 0.66 | 2.58 | 7.14 |
| Spray (Levee Leaper) | 50' | MFWD 225 | 13,200 | 200 | 8 | 0.033 | 0.61 | 1.01 | 0.20 | 0.20 | 2.04 | 0.27 | 1.39 | 3.71 |
| Spray (Pull Type) | 60' | MFWD 225 | 40,700 | 200 | 8 | 0.028 | 0.50 | 0.84 | 0.53 | 0.16 | 2.06 | 0.71 | 1.16 | 3.94 |
| Spray (Pull Type) | 80' | MFWD 225 | 52,500 | 200 | 8 | 0.021 | 0.38 | 0.63 | 0.52 | 0.12 | 1.66 | 0.69 | 0.87 | 3.22 |
| Spray (Pull Type) | 90' | 2WD 50 | 53,200 | 200 | 8 | 0.018 | 0.33 | 0.12 | 0.46 | 0.01 | 0.94 | 0.62 | 0.08 | 1.65 |
| Spray (Pull Type) | 120' | MFWD 225 | 80,900 | 200 | 8 | 0.014 | 0.25 | 0.42 | 0.53 | 0.08 | 1.29 | 0.71 | 0.58 | 2.58 |
| Spray (Ropewick) | 20' | MFWD 190 | 4,100 | 200 | 8 | 0.084 | 1.52 | 2.15 | 0.16 | 0.46 | 4.30 | 0.21 | 3.19 | 7.71 |
| Spray (Spot) | 27' | MFWD 170 | 7,270 | 200 | 8 | 0.062 | 1.13 | 1.42 | 0.21 | 0.28 | 3.06 | 0.28 | 2.00 | 5.34 |
| Spray (Spot) | 40' | MFWD 170 | 8,630 | 200 | 8 | 0.042 | 0.76 | 0.96 | 0.17 | 0.19 | 2.09 | 0.22 | 1.35 | 3.67 |
| Spray (Spot) | 50' | MFWD 170 | 13,700 | 200 | 8 | 0.033 | 0.61 | 0.77 | 0.21 | 0.15 | 1.75 | 0.28 | 1.08 | 3.12 |
| Spray (Spot) | 60' | MFWD 225 | 15,600 | 200 | 8 | 0.028 | 0.50 | 0.84 | 0.20 | 0.16 | 1.73 | 0.27 | 1.16 | 3.17 |
| Stalk Shredder | 14' | MFWD 150 | 21,100 | 200 | 10 | 0.117 | 1.59 | 2.36 | 2.17 | 0.47 | 6.61 | 1.45 | 3.18 | 11.24 |
| Stalk Shredder Flex | 20' | MFWD 150 | 29,300 | 200 | 10 | 0.082 | 1.11 | 1.65 | 2.11 | 0.33 | 5.22 | 1.41 | 2.22 | 8.85 |
| Stalk Shredder-Flail | 12' | MFWD 150 | 17,400 | 200 | 10 | 0.137 | 1.85 | 2.76 | 2.09 | 0.55 | 7.26 | 1.39 | 3.71 | 12.37 |
| Stalk Shredder-Flail | 15' | MFWD 150 | 21,900 | 200 | 10 | 0.110 | 1.48 | 2.20 | 2.10 | 0.44 | 6.24 | 1.40 | 2.96 | 10.62 |
| Stalk Shredder-Flail | 18' | MFWD 150 | 29,200 | 200 | 10 | 0.091 | 1.23 | 1.84 | 2.34 | 0.37 | 5.79 | 1.56 | 2.47 | 9.83 |
| Stalk Shredder-Flail | 20' | MFWD 150 | 29,000 | 200 | 10 | 0.082 | 1.11 | 1.65 | 2.09 | 0.33 | 5.19 | 1.39 | 2.22 | 8.82 |
| Stalk Shredder-Flail | 25' | MFWD 150 | 41,000 | 200 | 10 | 0.066 | 0.89 | 1.32 | 2.36 | 0.26 | 4.85 | 1.58 | 1.78 | 8.21 |
| Subsoiler | 3 shank | MFWD 190 | 5,810 | 100 | 15 | 0.204 | 2.76 | 5.19 | 0.39 | 1.11 | 9.46 | 1.11 | 7.71 | 18.30 |
| Subsoiler | 4 shank | MFWD 225 | 9,200 | 100 | 15 | 0.153 | 2.07 | 4.62 | 0.47 | 0.91 | 8.08 | 1.32 | 6.33 | 15.75 |
| Subsoiler | 5 shank | MFWD 225 | 12,600 | 100 | 15 | 0.122 | 1.65 | 3.68 | 0.51 | 0.73 | 6.58 | 1.44 | 5.04 | 13.07 |
| Subsoiler low-till | 6 shank | MFWD 225 | 14,600 | 100 | 15 | 0.102 | 1.38 | 3.07 | 0.49 | 0.60 | 5.56 | 1.40 | 4.21 | 11.17 |
| Subsoiler low-till | 8 shank | MFWD 225 | 20,000 | 100 | 15 | 0.076 | 1.03 | 2.30 | 0.51 | 0.45 | 4.30 | 1.43 | 3.15 | 8.89 |

Notes:

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

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|-----------------------|------|---------|----------------------|------|---------|
| | | dollars | | | dollars |
| ADJUVANTS | | | | | |
| Agri-Dex | pt | 2.39 | Avicta Complete Bean | oz | 0.49 |
| Crop Oil Conc. (Pet.) | pt | 2.37 | Bravo Weather Stick | pt | 6.88 |
| Crop Oil Conc. (Veg.) | pt | 2.58 | Captan 50 WP | lb | 4.28 |
| Dyne-A-Pak | pt | 4.80 | Cotton Seed Trt. | acre | 20.00 |
| Induce | pt | 3.59 | CruiserMaxx | oz | 4.28 |
| MSO | pt | 2.09 | Headline EC | oz | 3.11 |
| Penetrator Plus | pt | 2.34 | Propimax EC | pt | 12.88 |
| Surfactant | pt | 3.59 | Prosaro | oz | 2.56 |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | Quadris | oz | 2.25 |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | Quadris Top | oz | 2.61 |
| 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 | Stratego | pt | 24.58 |
| Soybeans Consultant | acre | 6.50 | Stratego YLD | oz | 4.28 |
| Wheat Consultant | acre | 5.50 | Tilt 3.6 EC | oz | 0.75 |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | Tilt/ Bravo SE | oz | 0.41 |
| App Fert by Air (Mi) | appl | 7.00 | GINNING | | |
| Custom Apply Fert | acre | 7.50 | Gin & Haul | lb | 0.11 |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 38.00 | GROWTH REGULATORS | | |
| CUSTOM PLANT | | | | | |
| Custom Plant | acre | 7.50 | Mepex | oz | 0.08 |
| Custom Plant Air | cwt | 7.00 | Mepichlor 4.2% | oz | 0.08 |
| CUSTOM | | | | | |
| App by Air (3 gal) | appl | 5.00 | Mepiquat | oz | 0.08 |
| App by Air (5 gal) | appl | 6.50 | Mepstar | oz | 0.08 |
| App by Air (10 gal) | appl | 9.00 | Palisade | oz | 1.25 |
| Custom Spray Ground | acre | 7.00 | Stance | oz | 1.25 |
| DRYING | | | | | |
| Dry Corn | bu | 0.19 | HARVEST AIDS | | |
| Dry Grain Sorghum | cwt | 0.25 | Adios | oz | 1.99 |
| Dry Peanuts | ton | 24.00 | Aim 2EC | oz | 5.65 |
| Dry Rice | bu | 0.40 | Def/Folex | pt | 10.90 |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | Defol 5 | gal | 5.40 |
| FERTILIZERS | | | | | |
| Agrotain Ultra | pt | 9.12 | Display | pt | 40.61 |
| Amm Sulfate (21% N) | cwt | 14.50 | Ethephon 6E | pt | 3.53 |
| Boron Plus | pt | 3.50 | Finish 6 | pt | 9.60 |
| DAP | cwt | 23.76 | Folex 6EC | pt | 10.90 |
| Fert 10-34-0 | cwt | 22.25 | Freefall SC | oz | 0.97 |
| Fert 10-34-0 | gal | 2.59 | Ginstar EC | pt | 26.41 |
| Fert 11-37-0 | cwt | 26.50 | Gramoxone SL | oz | 0.15 |
| Fert 33-0-0-12S | cwt | 18.00 | Sharpen | oz | 6.45 |
| Fert 41-0-0-4 | cwt | 14.25 | Sodium Chlorate 5L | gal | 5.40 |
| Lime | ton | 28.00 | SuperBoll | oz | 0.22 |
| NBPT | pt | 9.12 | Thidiazuron 4lb | oz | 0.97 |
| Phosphorus (46% P2O5) | cwt | 23.75 | Tribufos 6lb | pt | 10.90 |
| Potash (60% K2O) | cwt | 20.00 | HAULING | | |
| Sulfur Plus | pt | 3.15 | Haul Corn | bu | 0.23 |
| UAN (32% N) | cwt | 11.25 | Haul Peanuts | ton | 14.50 |
| UAN (32%) | gal | 1.24 | Haul Rice | bu | 0.35 |
| UAN + Sulfur (28%) | cwt | 12.40 | Haul Sorghum | bu | 0.25 |
| UAN + Sulfur (28%) | gal | 1.38 | Haul Soybeans | bu | 0.27 |
| Urea, Solid (46% N) | cwt | 14.50 | Haul Wheat | bu | 0.26 |
| Zinc Plus | pt | 4.99 | HERBICIDES | | |
| FUNGICIDES | | | | | |
| Aframe | oz | 1.91 | 2,4-D Ester | pt | 4.17 |
| Alfa Guard | lb | 1.55 | 2,4-D Amine 4 | pt | 2.40 |
| Allegiance Flowable | pt | 49.00 | AAtrex 4L | pt | 2.12 |
| Approach Prima | pt | 42.10 | Accent Q | oz | 23.85 |
| Apron Maxx RTA | oz | 0.95 | Aim | oz | 5.65 |
| | | | Anthem | oz | 3.08 |
| | | | Anthem Maxx | oz | 6.16 |
| | | | Armezon Pro | oz | 1.26 |
| | | | Atrazine 4L | pt | 1.98 |
| | | | Atrazine 90DF | lb | 3.38 |
| | | | Authority Elite | pt | 15.67 |
| | | | Authority Maxx | lb | 64.05 |
| | | | Authority MTZ | lb | 26.30 |
| | | | Axial XL | oz | 1.18 |
| | | | Axiom | oz | 1.92 |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019(continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|----------------------|------|---------|-----------------------|------|---------|
| | | dollars | | | dollars |
| Barrage | pt | 6.63 | Sharpen | oz | 6.45 |
| Boundary | pt | 11.21 | Sinister | pt | 15.63 |
| Broadaxe | pt | 16.57 | Stalwart | pt | 4.80 |
| Bucaneer Plus | pt | 1.48 | Stam 80 EDF | lb | 9.64 |
| Butyrac 200 (2,4-DB) | pt | 4.34 | Stam M4 | qt | 7.84 |
| Bxxolero | pt | 7.73 | Staple LX | oz | 7.63 |
| Cadre | oz | 3.54 | Sterling Blue | pt | 7.82 |
| Caparol | pt | 4.52 | Storm | pt | 11.41 |
| Capreno | oz | 7.13 | Superwham | qt | 9.20 |
| Cinch ATZ | pt | 5.89 | Suprend | lb | 13.74 |
| Clarity | pt | 11.51 | Synchrony XP | oz | 12.71 |
| Classic | oz | 17.18 | Tempest | oz | 1.84 |
| Clearpath | lb | 61.27 | Touchdown Total | qt | 6.97 |
| Clethomine 2E | oz | 0.56 | Trifluralin | pt | 3.56 |
| Clincher SF | oz | 2.34 | Triflurex | pt | 3.86 |
| Command 3ME | pt | 19.93 | Ultra Blazer | pt | 10.26 |
| Corvus | oz | 7.29 | Valor SX | oz | 4.57 |
| Cotoran | pt | 6.42 | Warrant | pt | 4.84 |
| Declare | oz | 1.64 | XtendiMax | oz | 9.10 |
| Dicamba | pt | 8.48 | Zidua | oz | 9.05 |
| Direx | pt | 2.93 | INOCULANT | | |
| Diuron | pt | 2.90 | Inoculant-Soybean | acre | 1.55 |
| Dual II Magnum | pt | 14.83 | Optimize LIFT | oz | 0.55 |
| Dual Magnum | pt | 13.81 | INSECTICIDES | | |
| Duet | pt | 5.35 | Abamectin .15EC | oz | 0.95 |
| Endigo | oz | 1.80 | Acephate 90% | lb | 8.70 |
| Engenia | oz | 1.02 | Acephate 90SP | lb | 7.92 |
| Facet L | pt | 15.25 | Admire Pro | oz | 1.80 |
| Fierce | oz | 7.54 | Baythroid XL | oz | 2.65 |
| First Rate | oz | 43.40 | Belt | oz | 7.90 |
| Flexstar | pt | 8.41 | Bidrin 8EC | oz | 1.26 |
| Fusilade DX | oz | 1.00 | Bifenthrin | oz | 0.76 |
| Glyphosate 3lbs a.e | pt | 2.16 | Bifenture 2EC | oz | 0.76 |
| Glyphosate 3lbs a.e | oz | 0.14 | Brigade EC | pt | 12.37 |
| Gramoxone SL 2.0 | oz | 0.15 | Capture LFR | oz | 2.28 |
| Grandstand R | pt | 15.86 | Centric 40WG | oz | 5.37 |
| Halex GT | pt | 7.80 | Diamond .83EC | oz | 1.40 |
| Halomax | oz | 21.44 | Dimethoate 4E | pt | 5.35 |
| Harmony Extra SG | oz | 13.79 | Dimilin 2L | oz | 2.13 |
| Hero | pt | 25.77 | Force 3G | lb | 6.03 |
| Leadoff | oz | 5.82 | Gaucho 600 | oz | 2.36 |
| Lexar | pt | 8.01 | Imidacloprid 4F | oz | 1.00 |
| Liberty 280 | oz | 0.59 | Imidan 70 WSB | oz | 0.67 |
| Loyant | oz | 0.00 | IncidentalPestTrt \$8 | acre | 8.00 |
| Metribuzin 4L | pt | 9.98 | IncidentalPestTrt\$15 | acre | 15.00 |
| Metribuzin 75 | lb | 16.40 | IncidentalPestTrt\$22 | acre | 22.00 |
| Newpath | oz | 3.83 | IncidentalPestTrt\$30 | acre | 30.00 |
| Osprey | oz | 3.62 | Intrepid 2F | oz | 2.03 |
| Outlook | pt | 16.60 | Intruder 70WSP | oz | 9.05 |
| Paraquat | oz | 0.24 | Karate Z | oz | 2.74 |
| Parazone 3SL | oz | 0.24 | Lambda | oz | 1.09 |
| Permit | oz | 22.46 | Lannate LV | pt | 10.99 |
| Permit Plus | oz | 21.02 | Macho | oz | 0.64 |
| Prefix | pt | 6.53 | Malathion 5E | pt | 5.50 |
| Provisia | oz | 0.78 | Malathion 8E | pt | 5.50 |
| Prowl 3.3 EC | pt | 6.09 | Mustang Max | oz | 1.34 |
| RealmQ | oz | 4.97 | Nuprid 4F | oz | 1.06 |
| RebelEx | oz | 2.51 | Orthene 90 | lb | 9.49 |
| Reflex | pt | 6.53 | Permethrin | oz | 0.49 |
| Regiment | oz | 44.90 | Pounce 25WP | lb | 14.15 |
| Resicore | oz | 0.58 | Prevathon | oz | 1.32 |
| Resource | oz | 1.83 | Radiant | oz | 6.82 |
| RiceBeaux | pt | 5.85 | Sevin 4F | pt | 6.22 |
| Riceshot | pt | 3.87 | Sevin XLR Plus | qt | 13.23 |
| Ricestar HT | pt | 24.35 | Sivanto Prime | oz | 2.52 |
| Roundup Power Max | oz | 0.18 | Transform WG | oz | 8.18 |
| Roundup PowerMax | pt | 2.80 | Warrior II | oz | 2.67 |
| Roundup WeatherMax | oz | 0.26 | IRRIGATION SUPPLIES | | |
| Roundup WeatherMax | pt | 4.17 | Roll-Out Pipe | ft | 0.25 |
| Select Max | pt | 12.71 | SEED/PLANTS | | |
| Sequence | pt | 5.94 | | | |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019 (continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|----------------------|-------|---------|----------------------|--------|---------|
| | | dollars | | | dollars |
| Corn Seed Conv. | thous | 2.26 | Rice Seed Trt/Insect | lbseed | 0.23 |
| Corn Seed BtRR | thous | 3.63 | Sorghum Concept | lb | 2.10 |
| Corn Seed RR2 | thous | 3.36 | Sorghum Concept+ Po | lb | 3.96 |
| Cotton Seed B3XF | thous | 2.40 | Soybean Seed LL | lb | 1.42 |
| Cotton Seed GLB2 | thous | 2.54 | Soybean Seed RR2 | lb | 1.34 |
| Cotton Seed GLTP | thous | 2.11 | Soybean Seed RR2X | lb | 1.55 |
| Cotton Seed W3FE | thous | 2.34 | SOIL TEST | | |
| CSeed B3XF/W3RE/GLTP | thous | 2.28 | Soil Test | acre | 10.00 |
| Peanut Seed | lb | 0.84 | SURVEY & MARK LEVEES | | |
| Rice Clearfield | lb | 1.06 | Survey & Mark Levees | acre | 4.50 |
| Rice Clrflld Hyb Trt | lb | 5.70 | | | |
| Rice Conv Hyb Trt | lb | 5.70 | | | |
| Rice Seed CF(Levees) | lb | 1.06 | | | |
| Rice Seed CFH(Levee) | lb | 1.78 | | | |
| Rice Seed Conv. | lb | 0.28 | | | |
| Rice Seed Cv(Levees) | lb | 0.28 | | | |
| Rice Seed CvH(Levee) | lb | 1.66 | | | |
| Rice Seed Provisia | lb | 1.15 | | | |

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2019

| ITEM NAME | UNIT | PRICE |
|-------------------|------|-------|
| dollars | | |
| FUEL TYPES | | |
| Diesel Fuel | gal | 2.60 |
| Gasoline | gal | 2.50 |
| INTEREST RATES | | |
| Short-term | % | 6.00 |
| Intermediate-term | % | 6.50 |

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2019

| Item name | Unit | Wage Rate |
|---------------------|-----------------------------------|-----------|
| OPERATOR LABOR | hour | 14.23 |
| 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, 2019

| Crop | unit | Futures Contract Month | Futures Contract Price ^a | Basis ^b | Forward Contract Price ^c | Loan Rate ^d | Budget Price ^e |
|---------------|------|------------------------|-------------------------------------|--------------------|-------------------------------------|------------------------|---------------------------|
| Corn | bu | Dec '19 | 4.00 | -0.20 | 3.80 | 2.10 | 3.80 |
| Cotton Lint | lb | Dec '19 | 0.7572 | -0.0158 | 0.7414 | 0.52 | 0.7414 |
| Cottonseed | lb | | | | | | 0.10 ^f |
| Grain Sorghum | bu | | | | 3.61 | 2.02 | 3.61 |
| Peanuts | ton | | | | 385.00 | 355.00 | 385.00 |
| Soybeans | bu | Nov '19 | 9.29 | +0.01 | 9.30 | 5.21 | 9.30 |
| Rice | bu | Nov '19 | 4.98 | -0.38 | 4.60 | 2.96 | 4.60 |
| Wheat | bu | Jul '19 | 5.52 | -0.15 | 5.37 | 2.76 | 5.37 |

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2018 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 2018 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 2018 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2018 Farm-stored Loan Rate for long grain rough rice. National 2019 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2008-2017.

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, 2019

| 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 | | | | 0.34 | 13.82 | 61.18 |
| Well & Pump, 1/4 CP | each | | | 3.50 | | | | 0.09 | 3.59 | 11.96 |
| Engine, 1/4 CP, 65 | each | | | | | | | | | 11.29 |
| June Irr. 3app@.75" | ac-in | | 8.74 | 1.40 | | | | 0.25 | 10.39 | 10.39 |
| July Irr. 4app@.75" | ac-in | | 11.65 | 1.87 | | | | 0.27 | 13.79 | 13.79 |
| Aug Irr. 3app@.75" | ac-in | | 8.74 | 1.40 | | | | 0.15 | 10.29 | 10.29 |
| TOTALS | | 0.00 | 29.13 | 21.65 | 1.84 | 0.00 | 1.14 | 53.76 | 84.43 | 138.19 |

Note: Cost of production estimates are based on 2018 input prices.

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