# RICE
# 2014
# PLANNING BUDGETS

**Mississippi State University**
**Department of Agricultural Economics**
**Budget Report 2013-04**

**December 2013**

# Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses**." Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2014 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses**."

## Acknowledgments

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

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

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

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## Budgets for Agricultural Enterprises

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

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

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

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

## Methods and Procedures

### Production Practices

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

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

### Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2012. (Appendix Tables 1, 2, and 3).

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

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

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

**Estimates of Direct Costs**

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

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

$$RPA = RPH \times PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

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

**Estimates of Fixed Costs**

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

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

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

**Estimates of Returns**

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2013 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

**Irrigation Costs**

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, 10, and 11.

**Net Returns**

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

Enterprise Budgets

Table 1.A Estimated costs per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 0.7500 | 16.88 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Riceshot | pt | 3.62 | 8.0000 | 28.96 | |
| Facet L | pt | 12.72 | 0.4000 | 5.09 | |
| Permit 75 DF | oz | 19.25 | 0.5000 | 9.63 | |
| Clincher SF | oz | 2.15 | 7.5000 | 16.13 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 93.6000 | 12.07 | |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | |
| SEED/PLANTS | | | | | |
| Rice Seed Conv. | lb | 0.44 | 80.0000 | 35.20 | |
| Rice Seed (Levees) | lb | 0.44 | 13.6000 | 5.98 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 1.0000 | 3.72 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 148.0000 | 51.80 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 148.0000 | 59.20 | |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 1.0000 | 4.50 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5757 | 7.21 | |
| Harvesters | hour | 12.50 | 0.2030 | 2.54 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 3.5250 | 31.96 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 1.5000 | 13.59 | |
| UNALLOCATED LABOR | hour | 12.48 | 0.5887 | 7.35 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.4144 | 17.87 | |
| Harvesters | gal | 3.30 | 3.3975 | 11.21 | |
| Flood Irr. | gal | 3.30 | 26.8827 | 88.70 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.50 | 1.0000 | 7.50 | |
| Tractors | acre | 2.78 | 1.0000 | 2.78 | |
| Harvesters | acre | 6.62 | 1.0000 | 6.62 | |
| Flood Irr. | acre | 11.96 | 1.0000 | 11.96 | |
| INTEREST ON OP. CAP. | acre | 8.39 | 1.0000 | 8.39 | |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 651.76 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 15.48 | 1.0000 | 15.48 | |
| Tractors | acre | 16.84 | 1.0000 | 16.84 | |
| Harvesters | acre | 25.35 | 1.0000 | 25.35 | |
| Flood Irr. | acre | 35.31 | 1.0000 | 35.31 | |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 92.98 | |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 744.74 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 1.B Summary of estimated costs and returns per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 148.0000 | 867.28 | _____ |
| TOTAL INCOME | | | | 867.28 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 16.00 | 1.0000 | 16.00 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 16.88 | 1.0000 | 16.88 | _____ |
| HERBICIDES | acre | 82.92 | 1.0000 | 82.92 | _____ |
| INSECTICIDES | acre | 14.80 | 1.0000 | 14.80 | _____ |
| SEED/PLANTS | acre | 41.18 | 1.0000 | 41.18 | _____ |
| ADJUVANTS | acre | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 51.80 | 1.0000 | 51.80 | _____ |
| DRYING | acre | 59.20 | 1.0000 | 59.20 | _____ |
| SURVEY & MARK LEVEES | acre | 4.50 | 1.0000 | 4.50 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 3.5250 | 31.96 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7788 | 9.75 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 1.5000 | 13.59 | _____ |
| UNALLOCATED LABOR | hour | 12.48 | 0.5887 | 7.35 | _____ |
| DIESEL FUEL | gal | 3.30 | 35.6946 | 117.78 | _____ |
| REPAIR & MAINTENANCE | acre | 28.86 | 1.0000 | 28.86 | _____ |
| INTEREST ON OP. CAP. | acre | 8.39 | 1.0000 | 8.39 | _____ |
| TOTAL DIRECT EXPENSES | | | | 651.76 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 215.52 | _____ |
| TOTAL FIXED EXPENSES | | | | 92.98 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 744.74 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 122.54 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 1.C Estimated resource use for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | hours | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Seed Conv. | lb | | | | | 80.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 80.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed (Levees) | lb | | | | | 13.6000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 13.6000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Riceshot | pt | | | | | 8.0000 | | | | |
| Facet L | pt | | | | | 0.4000 | | | | |
| Permit 75 DF | oz | | | | | 0.5000 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.30 | |
| App by Air ( 5 gal) | appl | | | 0.50 | Jun | 0.5000 | | | | |
| Clincher SF | oz | | | | | 7.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.50 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.50 | |
| App by Air ( 5 gal) | appl | | | 0.75 | Jul | 0.7500 | | | | |
| Stratego | pt | | | | | 0.7500 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (CL) | 25' Rigid | 325 hp | 0.203 | 1.00 | Aug | | 0.20 | 0.20 | 0.20 | 0.18 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 148.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 148.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.12 | 0.12 | 3.64 | |
| TOTALS | | | | | | | 0.77 | 0.77 | 6.14 | 0.58 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 1.D Estimated costs for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Seed Conv. | lb | 35.20 | | | | | 0.66 | 35.86 | | 35.86 |
| Cruiser Maxx Rice | lbseed | 10.32 | | | | | 0.19 | 10.51 | | 10.51 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed (Levees) | lb | 5.98 | | | | | 0.11 | 6.09 | | 6.09 |
| Cruiser Maxx Rice | lbseed | 1.75 | | | | | 0.03 | 1.78 | | 1.78 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Riceshot | pt | 28.96 | | | | | 0.45 | 29.41 | | 29.41 |
| Facet L | pt | 5.09 | | | | | 0.08 | 5.17 | | 5.17 |
| Permit 75 DF | oz | 9.63 | | | | | 0.15 | 9.78 | | 9.78 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 2.72 | | 0.04 | 2.76 | | 2.76 |
| App by Air ( 5 gal) | appl | 3.00 | | | | | 0.04 | 3.04 | | 3.04 |
| Clincher SF | oz | 16.13 | | | | | 0.20 | 16.33 | | 16.33 |
| Crop Oil Conc.(Pet.) | pt | 3.72 | | | | | 0.05 | 3.77 | | 3.77 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 4.53 | | 0.06 | 4.59 | | 4.59 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 4.53 | | 0.04 | 4.57 | | 4.57 |
| App by Air ( 5 gal) | appl | 4.50 | | | | | 0.04 | 4.54 | | 4.54 |
| Stratego | pt | 16.88 | | | | | 0.16 | 17.04 | | 17.04 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (CL) | 25' Rigid | | 11.21 | 9.04 | 4.82 | | 0.16 | 25.23 | 29.00 | 54.23 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 51.80 | | | | | 0.32 | 52.12 | | 52.12 |
| Dry Rice | bu | 59.20 | | | | | 0.37 | 59.57 | | 59.57 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 4.50 | 92.01 | 12.60 | 33.53 | | 2.01 | 144.65 | 39.00 | 183.65 |
| TOTALS | | 430.97 | 117.78 | 28.86 | 65.76 | 0.00 | 8.39 | 651.76 | 92.98 | 744.74 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 1.E Estimated monthly income and expense flows per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 867.28 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 3.00 | 7.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.88 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.11 | 43.68 | 16.13 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.07 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.18 | 0.00 | 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 | 3.72 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 51.80 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 59.20 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.19 | 9.52 | 11.33 | 11.33 | 10.65 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.33 | 24.19 | 24.19 | 24.19 | 12.74 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 6.81 | 1.93 | 1.93 | 9.42 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.32 | 2.89 | 1.32 | 0.59 | 0.89 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 127.13 | 188.66 | 106.02 | 64.65 | 144.70 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -127.13 | -188.66 | -106.02 | -64.65 | 722.58 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -136.70 | -325.36 | -431.38 | -496.03 | 226.55 | 215.52 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 1.F Estimated returns for various price/yield combinations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 74.00 | bu | -270 | -249 | -227 | -205 | -183 | -162 | -140 | -118 | -97 | -75 | -53 |
| | | | -363 | -341 | -320 | -298 | -276 | -255 | -233 | -211 | -190 | -168 | -146 |
| 60 | 88.80 | bu | -216 | -190 | -164 | -138 | -112 | -86 | -60 | -34 | -8 | 17 | 43 |
| | | | -309 | -283 | -257 | -231 | -205 | -179 | -153 | -127 | -101 | -75 | -49 |
| 70 | 103.60 | bu | -162 | -132 | -102 | -71 | -41 | -11 | 19 | 49 | 79 | 110 | 140 |
| | | | -255 | -225 | -195 | -164 | -134 | -104 | -73 | -43 | -13 | 17 | 47 |
| 80 | 118.40 | bu | -109 | -74 | -39 | -4 | 29 | 64 | 99 | 133 | 168 | 203 | 237 |
| | | | -202 | -167 | -132 | -97 | -63 | -28 | 6 | 40 | 75 | 110 | 144 |
| 90 | 133.20 | bu | -55 | -16 | 22 | 61 | 100 | 139 | 178 | 218 | 257 | 296 | 335 |
| | | | -148 | -109 | -70 | -31 | 7 | 46 | 86 | 125 | 164 | 203 | 242 |
| 100 | 148.00 | bu | -1 | 42 | 85 | 128 | 172 | 215 | 258 | 302 | 345 | 388 | 432 |
| | | | -94 | -50 | -7 | 35 | 79 | 122 | 165 | 209 | 252 | 295 | 339 |
| 110 | 162.80 | bu | 52 | 100 | 147 | 195 | 243 | 291 | 338 | 386 | 434 | 481 | 529 |
| | | | -40 | 7 | 54 | 102 | 150 | 198 | 245 | 293 | 341 | 388 | 436 |
| 120 | 177.60 | bu | 106 | 158 | 210 | 262 | 314 | 366 | 418 | 470 | 522 | 574 | 626 |
| | | | 13 | 65 | 117 | 169 | 221 | 273 | 325 | 377 | 429 | 481 | 533 |
| 130 | 192.40 | bu | 160 | 216 | 273 | 329 | 385 | 442 | 498 | 554 | 611 | 667 | 724 |
| | | | 67 | 123 | 180 | 236 | 292 | 349 | 405 | 461 | 518 | 574 | 631 |
| 140 | 207.20 | bu | 214 | 274 | 335 | 396 | 457 | 517 | 578 | 639 | 699 | 760 | 821 |
| | | | 121 | 181 | 242 | 303 | 364 | 424 | 485 | 546 | 606 | 667 | 728 |
| 150 | 222.00 | bu | 268 | 333 | 398 | 463 | 528 | 593 | 658 | 723 | 788 | 853 | 918 |
| | | | 175 | 240 | 305 | 370 | 435 | 500 | 565 | 630 | 695 | 760 | 825 |

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 2013 input prices.

Table 2.A Estimated costs per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 0.7500 | 16.88 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Riceshot | pt | 3.62 | 8.0000 | 28.96 | |
| Facet L | pt | 12.72 | 0.4000 | 5.09 | |
| Permit 75 DF | oz | 19.25 | 0.5000 | 9.63 | |
| Clincher SF | oz | 2.15 | 7.5000 | 16.13 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 93.6000 | 12.07 | |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | |
| SEED/PLANTS | | | | | |
| Rice Seed Conv. | lb | 0.44 | 80.0000 | 35.20 | |
| Rice Seed (Levees) | lb | 0.44 | 13.6000 | 5.98 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 1.0000 | 3.72 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 156.0000 | 54.60 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 156.0000 | 62.40 | |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 0.5000 | 2.25 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5281 | 6.60 | |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 2.3750 | 21.52 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.0192 | 16.57 | |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | |
| Flood Irr. | gal | 3.30 | 21.9949 | 72.59 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.14 | 1.0000 | 7.14 | |
| Tractors | acre | 2.57 | 1.0000 | 2.57 | |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | |
| Flood Irr. | acre | 11.97 | 1.0000 | 11.97 | |
| INTEREST ON OP. CAP. | acre | 7.89 | 1.0000 | 7.89 | |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 615.73 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.72 | 1.0000 | 14.72 | |
| Tractors | acre | 15.59 | 1.0000 | 15.59 | |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | |
| Flood Irr. | acre | 55.03 | 1.0000 | 55.03 | |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 107.31 | |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 723.04 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 2.B Summary of estimated costs and returns per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 156.0000 | 914.16 | _____ |
| TOTAL INCOME | | | | 914.16 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 16.00 | 1.0000 | 16.00 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 16.88 | 1.0000 | 16.88 | _____ |
| HERBICIDES | acre | 82.92 | 1.0000 | 82.92 | _____ |
| INSECTICIDES | acre | 14.80 | 1.0000 | 14.80 | _____ |
| SEED/PLANTS | acre | 41.18 | 1.0000 | 41.18 | _____ |
| ADJUVANTS | acre | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 54.60 | 1.0000 | 54.60 | _____ |
| DRYING | acre | 62.40 | 1.0000 | 62.40 | _____ |
| SURVEY & MARK LEVEES | acre | 2.25 | 1.0000 | 2.25 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 2.3750 | 21.52 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7041 | 8.80 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 29.9586 | 98.88 | _____ |
| REPAIR & MAINTENANCE | acre | 27.42 | 1.0000 | 27.42 | _____ |
| INTEREST ON OP. CAP. | acre | 7.89 | 1.0000 | 7.89 | _____ |
| TOTAL DIRECT EXPENSES | | | | 615.73 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 298.43 | _____ |
| TOTAL FIXED EXPENSES | | | | 107.31 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 723.04 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 191.12 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 2.C Estimated resource use for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | hours | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Seed Conv. | lb | | | | | 80.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 80.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed (Levees) | lb | | | | | 13.6000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 13.6000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Riceshot | pt | | | | | 8.0000 | | | | |
| Facet L | pt | | | | | 0.4000 | | | | |
| Permit 75 DF | oz | | | | | 0.5000 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.50 | Jun | 0.5000 | | | | |
| Clincher SF | oz | | | | | 7.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 0.75 | Jul | 0.7500 | | | | |
| Stratego | pt | | | | | 0.7500 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.07 | 0.07 | 2.45 | |
| TOTALS | | | | | | | 0.70 | 0.70 | 4.12 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 2.D Estimated costs for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Seed Conv. | lb | 35.20 | | | | | 0.66 | 35.86 | | 35.86 |
| Cruiser Maxx Rice | lbseed | 10.32 | | | | | 0.19 | 10.51 | | 10.51 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed (Levees) | lb | 5.98 | | | | | 0.11 | 6.09 | | 6.09 |
| Cruiser Maxx Rice | lbseed | 1.75 | | | | | 0.03 | 1.78 | | 1.78 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Riceshot | pt | 28.96 | | | | | 0.45 | 29.41 | | 29.41 |
| Facet L | pt | 5.09 | | | | | 0.08 | 5.17 | | 5.17 |
| Permit 75 DF | oz | 9.63 | | | | | 0.15 | 9.78 | | 9.78 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 3.00 | | | | | 0.04 | 3.04 | | 3.04 |
| Clincher SF | oz | 16.13 | | | | | 0.20 | 16.33 | | 16.33 |
| Crop Oil Conc.(Pet.) | pt | 3.72 | | | | | 0.05 | 3.77 | | 3.77 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 4.50 | | | | | 0.04 | 4.54 | | 4.54 |
| Stratego | pt | 16.88 | | | | | 0.16 | 17.04 | | 17.04 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 54.60 | | | | | 0.34 | 54.94 | | 54.94 |
| Dry Rice | bu | 62.40 | | | | | 0.39 | 62.79 | | 62.79 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 2.25 | 74.60 | 12.36 | 22.48 | | 1.58 | 113.27 | 57.20 | 170.47 |
| TOTALS | | 434.72 | 98.88 | 27.42 | 46.82 | 0.00 | 7.89 | 615.73 | 107.31 | 723.04 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 2.E Estimated monthly income and expense flows per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 914.16 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 3.00 | 7.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.88 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.11 | 43.68 | 16.13 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.07 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.18 | 0.00 | 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 | 3.72 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.60 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.40 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.22 | 5.44 | 6.34 | 6.34 | 9.74 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.56 | 18.82 | 18.82 | 18.82 | 10.72 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 6.72 | 1.84 | 1.84 | 8.12 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.73 | 1.18 | 0.50 | 0.91 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 120.14 | 178.96 | 95.43 | 54.11 | 146.49 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -120.14 | -178.96 | -95.43 | -54.11 | 767.67 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -129.71 | -308.67 | -404.10 | -458.21 | 309.46 | 298.43 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 2.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 78.00 | bu | -214 | -191 | -168 | -145 | -122 | -99 | -76 | -54 | -31 | -8 | 14 |
| | | | -321 | -298 | -275 | -252 | -229 | -207 | -184 | -161 | -138 | -115 | -92 |
| 60 | 93.60 | bu | -157 | -129 | -102 | -74 | -47 | -20 | 7 | 34 | 62 | 89 | 116 |
| | | | -264 | -237 | -209 | -182 | -154 | -127 | -100 | -72 | -45 | -17 | 9 |
| 70 | 109.20 | bu | -100 | -68 | -36 | -4 | 27 | 59 | 91 | 123 | 155 | 187 | 219 |
| | | | -207 | -175 | -143 | -111 | -79 | -47 | -15 | 16 | 48 | 80 | 112 |
| 80 | 124.80 | bu | -43 | -7 | 29 | 66 | 102 | 139 | 175 | 212 | 248 | 285 | 321 |
| | | | -150 | -114 | -77 | -41 | -4 | 31 | 68 | 104 | 141 | 178 | 214 |
| 90 | 140.40 | bu | 13 | 54 | 95 | 136 | 177 | 218 | 259 | 301 | 342 | 383 | 424 |
| | | | -94 | -53 | -11 | 29 | 70 | 111 | 152 | 193 | 234 | 276 | 317 |
| 100 | 156.00 | bu | 69 | 115 | 161 | 207 | 252 | 298 | 344 | 389 | 435 | 481 | 526 |
| | | | -37 | 8 | 53 | 99 | 145 | 191 | 236 | 282 | 328 | 373 | 419 |
| 110 | 171.60 | bu | 126 | 176 | 227 | 277 | 327 | 378 | 428 | 478 | 528 | 579 | 629 |
| | | | 19 | 69 | 119 | 170 | 220 | 270 | 321 | 371 | 421 | 471 | 522 |
| 120 | 187.20 | bu | 183 | 238 | 293 | 348 | 402 | 457 | 512 | 567 | 622 | 677 | 731 |
| | | | 76 | 131 | 185 | 240 | 295 | 350 | 405 | 460 | 514 | 569 | 624 |
| 130 | 202.80 | bu | 240 | 299 | 359 | 418 | 477 | 537 | 596 | 656 | 715 | 775 | 834 |
| | | | 132 | 192 | 251 | 311 | 370 | 430 | 489 | 548 | 608 | 667 | 727 |
| 140 | 218.40 | bu | 297 | 361 | 425 | 489 | 553 | 617 | 680 | 744 | 808 | 872 | 936 |
| | | | 189 | 253 | 317 | 381 | 445 | 509 | 573 | 637 | 701 | 765 | 829 |
| 150 | 234.00 | bu | 353 | 422 | 490 | 559 | 628 | 696 | 765 | 833 | 902 | 970 | 1039 |
| | | | 246 | 315 | 383 | 452 | 520 | 589 | 657 | 726 | 795 | 863 | 932 |

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 2013 input prices.

Table 3.A Estimated costs per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | _____ |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | _____ |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | _____ |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | _____ |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | _____ |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 0.7500 | 16.88 | _____ |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | _____ |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | _____ |
| Riceshot | pt | 3.62 | 8.0000 | 28.96 | _____ |
| Facet L | pt | 12.72 | 0.4000 | 5.09 | _____ |
| Permit 75 DF | oz | 19.25 | 0.5000 | 9.63 | _____ |
| Clincher SF | oz | 2.15 | 7.5000 | 16.13 | _____ |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 93.6000 | 12.07 | _____ |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| Roll-Out Pipe | ft | 0.26 | 33.0000 | 8.58 | _____ |
| SEED/PLANTS | | | | | |
| Rice Seed Conv. | lb | 0.44 | 80.0000 | 35.20 | _____ |
| Rice Seed (Levees) | lb | 0.44 | 13.6000 | 5.98 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | _____ |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 156.0000 | 54.60 | _____ |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 156.0000 | 62.40 | _____ |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 0.5000 | 2.25 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5563 | 6.96 | _____ |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 1.1250 | 10.18 | _____ |
| Implements | hour | 9.06 | 0.0375 | 0.34 | _____ |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | _____ |
| Implements | hour | 9.06 | 0.0926 | 0.84 | _____ |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.2074 | 17.20 | _____ |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | _____ |
| Flood Irr. | gal | 3.30 | 18.7364 | 61.83 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.19 | 1.0000 | 7.19 | _____ |
| Tractors | acre | 2.66 | 1.0000 | 2.66 | _____ |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | _____ |
| Flood Irr. | acre | 11.66 | 1.0000 | 11.66 | _____ |
| INTEREST ON OP. CAP. | acre | 7.76 | 1.0000 | 7.76 | _____ |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 603.24 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 15.12 | 1.0000 | 15.12 | _____ |
| Tractors | acre | 16.08 | 1.0000 | 16.08 | _____ |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | _____ |
| Flood Irr. | acre | 54.77 | 1.0000 | 54.77 | _____ |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 107.94 | _____ |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 711.18 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 3.B Summary of estimated costs and returns per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 156.0000 | 914.16 | _____ |
| TOTAL INCOME | | | | 914.16 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 16.00 | 1.0000 | 16.00 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 16.88 | 1.0000 | 16.88 | _____ |
| HERBICIDES | acre | 82.92 | 1.0000 | 82.92 | _____ |
| INSECTICIDES | acre | 14.80 | 1.0000 | 14.80 | _____ |
| IRRIGATION SUPPLIES | acre | 8.58 | 1.0000 | 8.58 | _____ |
| SEED/PLANTS | acre | 41.18 | 1.0000 | 41.18 | _____ |
| ADJUVANTS | acre | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 54.60 | 1.0000 | 54.60 | _____ |
| DRYING | acre | 62.40 | 1.0000 | 62.40 | _____ |
| SURVEY & MARK LEVEES | acre | 2.25 | 1.0000 | 2.25 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 1.1625 | 10.52 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7323 | 9.16 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 26.8883 | 88.75 | _____ |
| REPAIR & MAINTENANCE | acre | 27.25 | 1.0000 | 27.25 | _____ |
| INTEREST ON OP. CAP. | acre | 7.76 | 1.0000 | 7.76 | _____ |
| TOTAL DIRECT EXPENSES | | | | 603.24 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 310.92 | _____ |
| TOTAL FIXED EXPENSES | | | | 107.94 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 711.18 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 202.98 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 3.C Estimated resource use for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ----------hours---------- | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Seed Conv. | lb | | | | | 80.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 80.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed (Levees) | lb | | | | | 13.6000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 13.6000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Riceshot | pt | | | | | 8.0000 | | | | |
| Facet L | pt | | | | | 0.4000 | | | | |
| Permit 75 DF | oz | | | | | 0.5000 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.50 | Jun | 0.5000 | | | | |
| Clincher SF | oz | | | | | 7.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 0.75 | Jul | 0.7500 | | | | |
| Stratego | pt | | | | | 0.7500 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.10 | 0.10 | 1.26 | |
| | | | | | | | ------- | ------- | ------- | ------- |
| TOTALS | | | | | | | 0.73 | 0.73 | 2.93 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 3.D Estimated costs for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST: OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Seed Conv. | lb | 35.20 | | | | | 0.66 | 35.86 | | 35.86 |
| Cruiser Maxx Rice | lbseed | 10.32 | | | | | 0.19 | 10.51 | | 10.51 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed (Levees) | lb | 5.98 | | | | | 0.11 | 6.09 | | 6.09 |
| Cruiser Maxx Rice | lbseed | 1.75 | | | | | 0.03 | 1.78 | | 1.78 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Riceshot | pt | 28.96 | | | | | 0.45 | 29.41 | | 29.41 |
| Facet L | pt | 5.09 | | | | | 0.08 | 5.17 | | 5.17 |
| Permit 75 DF | oz | 9.63 | | | | | 0.15 | 9.78 | | 9.78 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 3.00 | | | | | 0.04 | 3.04 | | 3.04 |
| Clincher SF | oz | 16.13 | | | | | 0.20 | 16.33 | | 16.33 |
| Crop Oil Conc.(Pet.) | pt | 3.72 | | | | | 0.05 | 3.77 | | 3.77 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 4.50 | | | | | 0.04 | 4.54 | | 4.54 |
| Stratego | pt | 16.88 | | | | | 0.16 | 17.04 | | 17.04 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 54.60 | | | | | 0.34 | 54.94 | | 54.94 |
| Dry Rice | bu | 62.40 | | | | | 0.39 | 62.79 | | 62.79 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 10.83 | 64.47 | 12.19 | 11.84 | | 1.45 | 100.78 | 57.83 | 158.61 |
| TOTALS | | 443.30 | 88.75 | 27.25 | 36.18 | 0.00 | 7.76 | 603.24 | 107.94 | 711.18 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 3.E Estimated monthly income and expense flows per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 914.16 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 3.00 | 7.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.88 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.11 | 43.68 | 16.13 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.07 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| IRRIGATION SUPPLIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.18 | 0.00 | 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 | 3.72 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.60 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.40 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.01 | 2.72 | 3.62 | 3.62 | 9.47 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.36 | 16.13 | 16.13 | 16.13 | 10.86 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.57 | 6.65 | 1.77 | 1.77 | 8.15 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.65 | 1.10 | 0.46 | 0.90 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 124.40 | 173.40 | 89.87 | 48.59 | 146.38 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -124.40 | -173.40 | -89.87 | -48.59 | 767.78 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -133.97 | -307.37 | -397.24 | -445.83 | 321.95 | 310.92 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 3.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 78.00 | bu | -201 | -178 | -155 | -133 | -110 | -87 | -64 | -41 | -18 | 4 | 26 |
| | | | -309 | -286 | -263 | -240 | -218 | -195 | -172 | -149 | -126 | -103 | -80 |
| 60 | 93.60 | bu | -144 | -117 | -89 | -62 | -35 | -7 | 19 | 47 | 74 | 102 | 129 |
| | | | -252 | -225 | -197 | -170 | -143 | -115 | -88 | -60 | -33 | -5 | 21 |
| 70 | 109.20 | bu | -87 | -55 | -23 | 8 | 39 | 71 | 103 | 135 | 167 | 199 | 231 |
| | | | -195 | -163 | -131 | -99 | -67 | -35 | -3 | 28 | 60 | 92 | 124 |
| 80 | 124.80 | bu | -31 | 5 | 41 | 78 | 115 | 151 | 188 | 224 | 261 | 297 | 334 |
| | | | -139 | -102 | -66 | -29 | 7 | 43 | 80 | 116 | 153 | 189 | 226 |
| 90 | 140.40 | bu | 25 | 66 | 107 | 149 | 190 | 231 | 272 | 313 | 354 | 395 | 436 |
| | | | -82 | -41 | -0 | 41 | 82 | 123 | 164 | 205 | 246 | 287 | 329 |
| 100 | 156.00 | bu | 82 | 128 | 173 | 219 | 265 | 310 | 356 | 402 | 448 | 493 | 539 |
| | | | -25 | 20 | 65 | 111 | 157 | 202 | 248 | 294 | 340 | 385 | 431 |
| 110 | 171.60 | bu | 139 | 189 | 239 | 290 | 340 | 390 | 440 | 491 | 541 | 591 | 641 |
| | | | 31 | 81 | 131 | 182 | 232 | 282 | 332 | 383 | 433 | 483 | 534 |
| 120 | 187.20 | bu | 195 | 250 | 305 | 360 | 415 | 470 | 525 | 579 | 634 | 689 | 744 |
| | | | 88 | 142 | 197 | 252 | 307 | 362 | 417 | 471 | 526 | 581 | 636 |
| 130 | 202.80 | bu | 252 | 312 | 371 | 431 | 490 | 549 | 609 | 668 | 728 | 787 | 846 |
| | | | 144 | 204 | 263 | 323 | 382 | 441 | 501 | 560 | 620 | 679 | 739 |
| 140 | 218.40 | bu | 309 | 373 | 437 | 501 | 565 | 629 | 693 | 757 | 821 | 885 | 949 |
| | | | 201 | 265 | 329 | 393 | 457 | 521 | 585 | 649 | 713 | 777 | 841 |
| 150 | 234.00 | bu | 366 | 434 | 503 | 572 | 640 | 709 | 777 | 846 | 914 | 983 | 1051 |
| | | | 258 | 326 | 395 | 464 | 532 | 601 | 669 | 738 | 806 | 875 | 944 |

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 2013 input prices.

Table 4.A Estimated costs per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | _____ |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | _____ |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | _____ |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | _____ |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | _____ |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 0.7500 | 16.88 | _____ |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | _____ |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | _____ |
| Riceshot | pt | 3.62 | 8.0000 | 28.96 | _____ |
| Facet L | pt | 12.72 | 0.4000 | 5.09 | _____ |
| Permit 75 DF | oz | 19.25 | 0.5000 | 9.63 | _____ |
| Clincher SF | oz | 2.15 | 7.5000 | 16.13 | _____ |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 80.0000 | 10.32 | _____ |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | _____ |
| SEED/PLANTS | | | | | |
| Rice Seed Conv. | lb | 0.44 | 80.0000 | 35.20 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | _____ |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 164.0000 | 57.40 | _____ |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 164.0000 | 65.60 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.4510 | 5.64 | _____ |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 1.0500 | 9.53 | _____ |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | _____ |
| Implements | hour | 9.06 | 0.0926 | 0.84 | _____ |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 4.4111 | 14.56 | _____ |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | _____ |
| Flood Irr. | gal | 3.30 | 15.4779 | 51.07 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.06 | 1.0000 | 7.06 | _____ |
| Tractors | acre | 2.26 | 1.0000 | 2.26 | _____ |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | _____ |
| Flood Irr. | acre | 9.86 | 1.0000 | 9.86 | _____ |
| INTEREST ON OP. CAP. | acre | 7.20 | 1.0000 | 7.20 | _____ |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 572.08 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.40 | 1.0000 | 14.40 | _____ |
| Tractors | acre | 13.74 | 1.0000 | 13.74 | _____ |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | _____ |
| Flood Irr. | acre | 54.51 | 1.0000 | 54.51 | _____ |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 104.62 | _____ |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 676.70 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 4.B Summary of estimated costs and returns per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 164.0000 | 961.04 | _____ |
| TOTAL INCOME | | | | 961.04 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 16.00 | 1.0000 | 16.00 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 16.88 | 1.0000 | 16.88 | _____ |
| HERBICIDES | acre | 82.92 | 1.0000 | 82.92 | _____ |
| INSECTICIDES | acre | 13.05 | 1.0000 | 13.05 | _____ |
| SEED/PLANTS | acre | 35.20 | 1.0000 | 35.20 | _____ |
| ADJUVANTS | acre | 3.72 | 1.0000 | 3.72 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 57.40 | 1.0000 | 57.40 | _____ |
| DRYING | acre | 65.60 | 1.0000 | 65.60 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 1.0500 | 9.53 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.6270 | 7.84 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 22.8336 | 75.35 | _____ |
| REPAIR & MAINTENANCE | acre | 24.92 | 1.0000 | 24.92 | _____ |
| INTEREST ON OP. CAP. | acre | 7.20 | 1.0000 | 7.20 | _____ |
| TOTAL DIRECT EXPENSES | | | | 572.08 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 388.96 | _____ |
| TOTAL FIXED EXPENSES | | | | 104.62 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 676.70 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 284.34 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 4.C Estimated resource use for field operations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ----------hours---------- | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Seed Conv. | lb | | | | | 80.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 80.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Riceshot | pt | | | | | 8.0000 | | | | |
| Facet L | pt | | | | | 0.4000 | | | | |
| Permit 75 DF | oz | | | | | 0.5000 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.50 | Jun | 0.5000 | | | | |
| Clincher SF | oz | | | | | 7.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 0.75 | Jul | 0.7500 | | | | |
| Stratego | pt | | | | | 0.7500 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 164.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 164.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | | | 1.05 | |
| | | | | | | | ------- | ------- | ------- | ------- |
| TOTALS | | | | | | | 0.62 | 0.62 | 2.71 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 4.D Estimated costs for field operations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Seed Conv. | lb | 35.20 | | | | | 0.66 | 35.86 | | 35.86 |
| Cruiser Maxx Rice | lbseed | 10.32 | | | | | 0.19 | 10.51 | | 10.51 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Riceshot | pt | 28.96 | | | | | 0.45 | 29.41 | | 29.41 |
| Facet L | pt | 5.09 | | | | | 0.08 | 5.17 | | 5.17 |
| Permit 75 DF | oz | 9.63 | | | | | 0.15 | 9.78 | | 9.78 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 3.00 | | | | | 0.04 | 3.04 | | 3.04 |
| Clincher SF | oz | 16.13 | | | | | 0.20 | 16.33 | | 16.33 |
| Crop Oil Conc.(Pet.) | pt | 3.72 | | | | | 0.05 | 3.77 | | 3.77 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 4.50 | | | | | 0.04 | 4.54 | | 4.54 |
| Stratego | pt | 16.88 | | | | | 0.16 | 17.04 | | 17.04 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 57.40 | | | | | 0.36 | 57.76 | | 57.76 |
| Dry Rice | bu | 65.60 | | | | | 0.41 | 66.01 | | 66.01 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | | 51.07 | 9.86 | 9.53 | | 0.99 | 71.45 | 54.51 | 125.96 |
| TOTALS | | 430.74 | 75.35 | 24.92 | 33.87 | 0.00 | 7.20 | 572.08 | 104.62 | 676.70 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 4.E Estimated monthly income and expense flows per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 961.04 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 3.00 | 7.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.88 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.11 | 43.68 | 16.13 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.20 | 0.00 | 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 | 3.72 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 57.40 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 65.60 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.27 | 3.18 | 4.08 | 4.08 | 8.52 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.81 | 13.44 | 13.44 | 13.44 | 10.08 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.77 | 6.19 | 1.31 | 1.31 | 8.00 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 2.61 | 1.07 | 0.43 | 0.93 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 97.26 | 170.67 | 87.15 | 45.87 | 150.53 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -97.26 | -170.67 | -87.15 | -45.87 | 810.51 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -106.83 | -277.50 | -364.65 | -410.52 | 399.99 | 388.96 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 82.00 | bu | -149 | -125 | -101 | -77 | -53 | -29 | -5 | 18 | 42 | 66 | 90 |
| | | | -254 | -230 | -206 | -182 | -158 | -134 | -110 | -86 | -62 | -38 | -14 |
| 60 | 98.40 | bu | -90 | -61 | -32 | -3 | 25 | 54 | 82 | 111 | 140 | 169 | 198 |
| | | | -194 | -165 | -137 | -108 | -79 | -50 | -21 | 7 | 35 | 64 | 93 |
| 70 | 114.80 | bu | -30 | 3 | 36 | 70 | 104 | 137 | 171 | 205 | 238 | 272 | 305 |
| | | | -135 | -101 | -67 | -34 | -0 | 33 | 66 | 100 | 134 | 167 | 201 |
| 80 | 131.20 | bu | 29 | 67 | 106 | 144 | 183 | 221 | 259 | 298 | 336 | 375 | 413 |
| | | | -75 | -36 | 1 | 40 | 78 | 116 | 155 | 193 | 232 | 270 | 309 |
| 90 | 147.60 | bu | 88 | 132 | 175 | 218 | 261 | 305 | 348 | 391 | 434 | 478 | 521 |
| | | | -15 | 27 | 70 | 114 | 157 | 200 | 243 | 287 | 330 | 373 | 416 |
| 100 | 164.00 | bu | 148 | 196 | 244 | 292 | 340 | 388 | 437 | 485 | 533 | 581 | 629 |
| | | | 44 | 92 | 140 | 188 | 236 | 284 | 332 | 380 | 428 | 476 | 524 |
| 110 | 180.40 | bu | 208 | 261 | 314 | 366 | 419 | 472 | 525 | 578 | 631 | 684 | 736 |
| | | | 103 | 156 | 209 | 262 | 315 | 368 | 420 | 473 | 526 | 579 | 632 |
| 120 | 196.80 | bu | 268 | 325 | 383 | 441 | 498 | 556 | 614 | 671 | 729 | 787 | 844 |
| | | | 163 | 221 | 278 | 336 | 394 | 451 | 509 | 567 | 624 | 682 | 740 |
| 130 | 213.20 | bu | 327 | 390 | 452 | 515 | 577 | 640 | 702 | 765 | 827 | 890 | 952 |
| | | | 223 | 285 | 348 | 410 | 473 | 535 | 597 | 660 | 722 | 785 | 847 |
| 140 | 229.60 | bu | 387 | 454 | 522 | 589 | 656 | 723 | 791 | 858 | 925 | 992 | 1060 |
| | | | 282 | 350 | 417 | 484 | 551 | 619 | 686 | 753 | 821 | 888 | 955 |
| 150 | 246.00 | bu | 447 | 519 | 591 | 663 | 735 | 807 | 879 | 951 | 1023 | 1095 | 1167 |
| | | | 342 | 414 | 486 | 558 | 630 | 702 | 775 | 847 | 919 | 991 | 1063 |

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 2013 input prices.

Table 5.A Estimated costs per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (10 gal) | appl | 7.75 | 1.0000 | 7.75 | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 1.0000 | 22.50 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Newpath 2SL | oz | 3.24 | 4.0000 | 12.96 | |
| Clearpath | lb | 49.11 | 0.5000 | 24.56 | |
| Aim 2EC | oz | 6.25 | 1.0000 | 6.25 | |
| Beyond | oz | 3.76 | 1.2500 | 4.70 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 82.0000 | 10.58 | |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | |
| SEED/PLANTS | | | | | |
| Rice Clearfield | lb | 0.99 | 70.0000 | 69.30 | |
| Rice Seed CF(Levees) | lb | 0.99 | 12.0000 | 11.88 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 4.5000 | 16.74 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 148.0000 | 51.80 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 148.0000 | 59.20 | |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 1.0000 | 4.50 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5757 | 7.21 | |
| Harvesters | hour | 12.50 | 0.2030 | 2.54 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 3.5250 | 31.96 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.48 | 0.5887 | 7.35 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.4144 | 17.87 | |
| Harvesters | gal | 3.30 | 3.3975 | 11.21 | |
| Flood Irr. | gal | 3.30 | 26.8827 | 88.70 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.50 | 1.0000 | 7.50 | |
| Tractors | acre | 2.78 | 1.0000 | 2.78 | |
| Harvesters | acre | 6.62 | 1.0000 | 6.62 | |
| Flood Irr. | acre | 11.96 | 1.0000 | 11.96 | |
| INTEREST ON OP. CAP. | acre | 9.36 | 1.0000 | 9.36 | |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 699.04 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 15.48 | 1.0000 | 15.48 | |
| Tractors | acre | 16.84 | 1.0000 | 16.84 | |
| Harvesters | acre | 25.35 | 1.0000 | 25.35 | |
| Flood Irr. | acre | 35.31 | 1.0000 | 35.31 | |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 92.98 | |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 792.02 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 5.B Summary of estimated costs and returns per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 148.0000 | 867.28 | _____ |
| TOTAL INCOME | | | | 867.28 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 23.75 | 1.0000 | 23.75 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 22.50 | 1.0000 | 22.50 | _____ |
| HERBICIDES | acre | 71.58 | 1.0000 | 71.58 | _____ |
| INSECTICIDES | acre | 13.31 | 1.0000 | 13.31 | _____ |
| SEED/PLANTS | acre | 81.18 | 1.0000 | 81.18 | _____ |
| ADJUVANTS | acre | 16.74 | 1.0000 | 16.74 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 51.80 | 1.0000 | 51.80 | _____ |
| DRYING | acre | 59.20 | 1.0000 | 59.20 | _____ |
| SURVEY & MARK LEVEES | acre | 4.50 | 1.0000 | 4.50 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 3.5250 | 31.96 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7788 | 9.75 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.48 | 0.5887 | 7.35 | _____ |
| DIESEL FUEL | gal | 3.30 | 35.6946 | 117.78 | _____ |
| REPAIR & MAINTENANCE | acre | 28.86 | 1.0000 | 28.86 | _____ |
| INTEREST ON OP. CAP. | acre | 9.36 | 1.0000 | 9.36 | _____ |
| TOTAL DIRECT EXPENSES | | | | 699.04 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 168.24 | _____ |
| TOTAL FIXED EXPENSES | | | | 92.98 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 792.02 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 75.26 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 5.C Estimated resource use for field operations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ----------hours---------- | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Clearfield | lb | | | | | 70.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 70.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed CF(Levees) | lb | | | | | 12.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 12.0000 | | | | |
| App by Air (10 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Newpath 2SL | oz | | | | | 4.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Clearpath | lb | | | | | 0.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| Aim 2EC | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.25 | Jun | 0.2500 | | | | |
| Beyond | oz | | | | | 1.2500 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 0.5000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 1.00 | Jul | 1.0000 | | | | |
| Stratego | pt | | | | | 1.0000 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (CL) | 25' Rigid | 325 hp | 0.203 | 1.00 | Aug | | 0.20 | 0.20 | 0.20 | 0.18 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 148.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 148.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.12 | 0.12 | 3.64 | |
| | | | | | | | ------- | ------- | ------- | ------- |
| TOTALS | | | | | | | 0.77 | 0.77 | 5.34 | 0.58 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 5.D Estimated costs for field operations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Clearfield | lb | 69.30 | | | | | 1.30 | 70.60 | | 70.60 |
| Cruiser Maxx Rice | lbseed | 9.03 | | | | | 0.17 | 9.20 | | 9.20 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed CF(Levees) | lb | 11.88 | | | | | 0.22 | 12.10 | | 12.10 |
| Cruiser Maxx Rice | lbseed | 1.55 | | | | | 0.03 | 1.58 | | 1.58 |
| App by Air (10 gal) | appl | 7.75 | | | | | 0.15 | 7.90 | | 7.90 |
| Newpath 2SL | oz | 12.96 | | | | | 0.24 | 13.20 | | 13.20 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.14 | 7.58 | | 7.58 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Clearpath | lb | 24.56 | | | | | 0.38 | 24.94 | | 24.94 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.12 | 7.56 | | 7.56 |
| Aim 2EC | oz | 6.25 | | | | | 0.10 | 6.35 | | 6.35 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 1.50 | | | | | 0.02 | 1.52 | | 1.52 |
| Beyond | oz | 4.70 | | | | | 0.06 | 4.76 | | 4.76 |
| Crop Oil Conc.(Pet.) | pt | 1.86 | | | | | 0.02 | 1.88 | | 1.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.06 | 6.06 | | 6.06 |
| Stratego | pt | 22.50 | | | | | 0.21 | 22.71 | | 22.71 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (CL) | 25' Rigid | | 11.21 | 9.04 | 4.82 | | 0.16 | 25.23 | 29.00 | 54.23 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 51.80 | | | | | 0.32 | 52.12 | | 52.12 |
| Dry Rice | bu | 59.20 | | | | | 0.37 | 59.57 | | 59.57 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 4.50 | 92.01 | 12.60 | 33.53 | | 2.01 | 144.65 | 39.00 | 183.65 |
| TOTALS | | 484.53 | 117.78 | 28.86 | 58.51 | 0.00 | 9.36 | 699.04 | 92.98 | 792.02 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 5.E Estimated monthly income and expense flows per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 867.28 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 6.00 | 1.50 | 8.50 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.07 | 30.81 | 4.70 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.58 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.44 | 7.44 | 1.86 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 51.80 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 59.20 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.19 | 7.71 | 8.61 | 8.61 | 10.65 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.33 | 24.19 | 24.19 | 24.19 | 12.74 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 6.81 | 1.93 | 1.93 | 9.42 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.58 | 2.78 | 1.09 | 0.64 | 0.89 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 195.05 | 181.31 | 88.28 | 69.10 | 144.70 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -195.05 | -181.31 | -88.28 | -69.10 | 722.58 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -204.62 | -385.93 | -474.21 | -543.31 | 179.27 | 168.24 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 5.F Estimated returns for various price/yield combinations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 74.00 | bu | -317 | -296 | -274 | -252 | -231 | -209 | -187 | -166 | -144 | -122 | -101 |
| | | | -410 | -389 | -367 | -345 | -324 | -302 | -280 | -259 | -237 | -215 | -194 |
| 60 | 88.80 | bu | -264 | -238 | -212 | -186 | -160 | -133 | -107 | -81 | -55 | -29 | -3 |
| | | | -357 | -331 | -305 | -279 | -252 | -226 | -200 | -174 | -148 | -122 | -96 |
| 70 | 103.60 | bu | -210 | -179 | -149 | -119 | -88 | -58 | -28 | 2 | 32 | 62 | 93 |
| | | | -303 | -272 | -242 | -212 | -181 | -151 | -121 | -90 | -60 | -29 | 0 |
| 80 | 118.40 | bu | -156 | -121 | -86 | -52 | -17 | 17 | 51 | 86 | 121 | 155 | 190 |
| | | | -249 | -214 | -179 | -145 | -110 | -75 | -41 | -6 | 28 | 62 | 97 |
| 90 | 133.20 | bu | -102 | -63 | -24 | 14 | 53 | 92 | 131 | 170 | 209 | 248 | 287 |
| | | | -195 | -156 | -117 | -78 | -39 | -0 | 38 | 77 | 116 | 155 | 194 |
| 100 | 148.00 | bu | -48 | -5 | 38 | 81 | 124 | 168 | 211 | 254 | 298 | 341 | 385 |
| | | | -141 | -98 | -54 | -11 | 31 | 75 | 118 | 161 | 205 | 248 | 292 |
| 110 | 162.80 | bu | 5 | 52 | 100 | 148 | 196 | 243 | 291 | 339 | 386 | 434 | 482 |
| | | | -87 | -39 | 7 | 55 | 103 | 150 | 198 | 246 | 293 | 341 | 389 |
| 120 | 177.60 | bu | 59 | 111 | 163 | 215 | 267 | 319 | 371 | 423 | 475 | 527 | 579 |
| | | | -33 | 18 | 70 | 122 | 174 | 226 | 278 | 330 | 382 | 434 | 486 |
| 130 | 192.40 | bu | 113 | 169 | 225 | 282 | 338 | 394 | 451 | 507 | 564 | 620 | 676 |
| | | | 20 | 76 | 132 | 189 | 245 | 301 | 358 | 414 | 471 | 527 | 583 |
| 140 | 207.20 | bu | 166 | 227 | 288 | 349 | 409 | 470 | 531 | 591 | 652 | 713 | 774 |
| | | | 73 | 134 | 195 | 256 | 316 | 377 | 438 | 498 | 559 | 620 | 681 |
| 150 | 222.00 | bu | 220 | 285 | 350 | 415 | 480 | 546 | 611 | 676 | 741 | 806 | 871 |
| | | | 127 | 192 | 257 | 322 | 388 | 453 | 518 | 583 | 648 | 713 | 778 |

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 2013 input prices.

Table 6.A Estimated costs per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (10 gal) | appl | 7.75 | 1.0000 | 7.75 | _____ |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | _____ |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | _____ |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | _____ |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | _____ |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | _____ |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 1.0000 | 22.50 | _____ |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | _____ |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | _____ |
| Newpath 2SL | oz | 3.24 | 4.0000 | 12.96 | _____ |
| Clearpath | lb | 49.11 | 0.5000 | 24.56 | _____ |
| Aim 2EC | oz | 6.25 | 1.0000 | 6.25 | _____ |
| Beyond | oz | 3.76 | 1.2500 | 4.70 | _____ |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 82.0000 | 10.58 | _____ |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | _____ |
| SEED/PLANTS | | | | | |
| Rice Clearfield | lb | 0.99 | 70.0000 | 69.30 | _____ |
| Rice Seed CF(Levees) | lb | 0.99 | 12.0000 | 11.88 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 4.5000 | 16.74 | _____ |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | _____ |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 156.0000 | 54.60 | _____ |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 156.0000 | 62.40 | _____ |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 0.5000 | 2.25 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5281 | 6.60 | _____ |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 2.3750 | 21.52 | _____ |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | _____ |
| Implements | hour | 9.06 | 0.0926 | 0.84 | _____ |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.0192 | 16.57 | _____ |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | _____ |
| Flood Irr. | gal | 3.30 | 21.9949 | 72.59 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.14 | 1.0000 | 7.14 | _____ |
| Tractors | acre | 2.57 | 1.0000 | 2.57 | _____ |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | _____ |
| Flood Irr. | acre | 11.97 | 1.0000 | 11.97 | _____ |
| INTEREST ON OP. CAP. | acre | 8.95 | 1.0000 | 8.95 | _____ |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 670.35 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.72 | 1.0000 | 14.72 | _____ |
| Tractors | acre | 15.59 | 1.0000 | 15.59 | _____ |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | _____ |
| Flood Irr. | acre | 55.03 | 1.0000 | 55.03 | _____ |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 107.31 | _____ |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 777.66 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 6.B Summary of estimated costs and returns per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 156.0000 | 914.16 | _____ |
| TOTAL INCOME | | | | 914.16 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 23.75 | 1.0000 | 23.75 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 22.50 | 1.0000 | 22.50 | _____ |
| HERBICIDES | acre | 71.58 | 1.0000 | 71.58 | _____ |
| INSECTICIDES | acre | 13.31 | 1.0000 | 13.31 | _____ |
| SEED/PLANTS | acre | 81.18 | 1.0000 | 81.18 | _____ |
| ADJUVANTS | acre | 16.74 | 1.0000 | 16.74 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 54.60 | 1.0000 | 54.60 | _____ |
| DRYING | acre | 62.40 | 1.0000 | 62.40 | _____ |
| SURVEY & MARK LEVEES | acre | 2.25 | 1.0000 | 2.25 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 2.3750 | 21.52 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7041 | 8.80 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 29.9586 | 98.88 | _____ |
| REPAIR & MAINTENANCE | acre | 27.42 | 1.0000 | 27.42 | _____ |
| INTEREST ON OP. CAP. | acre | 8.95 | 1.0000 | 8.95 | _____ |
| TOTAL DIRECT EXPENSES | | | | 670.35 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 243.81 | _____ |
| TOTAL FIXED EXPENSES | | | | 107.31 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 777.66 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 136.50 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 6.C Estimated resource use for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ----------hours---------- | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Clearfield | lb | | | | | 70.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 70.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed CF(Levees) | lb | | | | | 12.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 12.0000 | | | | |
| App by Air (10 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Newpath 2SL | oz | | | | | 4.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Clearpath | lb | | | | | 0.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| Aim 2EC | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.25 | Jun | 0.2500 | | | | |
| Beyond | oz | | | | | 1.2500 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 0.5000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 1.00 | Jul | 1.0000 | | | | |
| Stratego | pt | | | | | 1.0000 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.07 | 0.07 | 2.45 | |
| TOTALS | | | | | | | 0.70 | 0.70 | 4.12 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 6.D Estimated costs for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Clearfield | lb | 69.30 | | | | | 1.30 | 70.60 | | 70.60 |
| Cruiser Maxx Rice | lbseed | 9.03 | | | | | 0.17 | 9.20 | | 9.20 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed CF(Levees) | lb | 11.88 | | | | | 0.22 | 12.10 | | 12.10 |
| Cruiser Maxx Rice | lbseed | 1.55 | | | | | 0.03 | 1.58 | | 1.58 |
| App by Air (10 gal) | appl | 7.75 | | | | | 0.15 | 7.90 | | 7.90 |
| Newpath 2SL | oz | 12.96 | | | | | 0.24 | 13.20 | | 13.20 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.14 | 7.58 | | 7.58 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Clearpath | lb | 24.56 | | | | | 0.38 | 24.94 | | 24.94 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.12 | 7.56 | | 7.56 |
| Aim 2EC | oz | 6.25 | | | | | 0.10 | 6.35 | | 6.35 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 1.50 | | | | | 0.02 | 1.52 | | 1.52 |
| Beyond | oz | 4.70 | | | | | 0.06 | 4.76 | | 4.76 |
| Crop Oil Conc.(Pet.) | pt | 1.86 | | | | | 0.02 | 1.88 | | 1.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.06 | 6.06 | | 6.06 |
| Stratego | pt | 22.50 | | | | | 0.21 | 22.71 | | 22.71 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 54.60 | | | | | 0.34 | 54.94 | | 54.94 |
| Dry Rice | bu | 62.40 | | | | | 0.39 | 62.79 | | 62.79 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 2.25 | 74.60 | 12.36 | 22.48 | | 1.58 | 113.27 | 57.20 | 170.47 |
| TOTALS | | 488.28 | 98.88 | 27.42 | 46.82 | 0.00 | 8.95 | 670.35 | 107.31 | 777.66 |

Note: Cost of production estimates are based on 2013 input prices.

Table 6.E Estimated monthly income and expense flows per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 914.16 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 6.00 | 1.50 | 8.50 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.07 | 30.81 | 4.70 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.58 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.44 | 7.44 | 1.86 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.60 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.40 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.22 | 5.44 | 6.34 | 6.34 | 9.74 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.56 | 18.82 | 18.82 | 18.82 | 10.72 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 6.72 | 1.84 | 1.84 | 8.12 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 | 2.65 | 0.99 | 0.57 | 0.91 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 188.06 | 173.45 | 80.45 | 61.30 | 146.49 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -188.06 | -173.45 | -80.45 | -61.30 | 767.67 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -197.63 | -371.08 | -451.53 | -512.83 | 254.84 | 243.81 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 6.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 78.00 | bu | -268 | -245 | -222 | -200 | -177 | -154 | -131 | -108 | -85 | -62 | -40 |
| | | | -375 | -353 | -330 | -307 | -284 | -261 | -238 | -216 | -193 | -170 | -147 |
| 60 | 93.60 | bu | -211 | -184 | -157 | -129 | -102 | -74 | -47 | -19 | 7 | 34 | 62 |
| | | | -319 | -291 | -264 | -236 | -209 | -182 | -154 | -127 | -99 | -72 | -44 |
| 70 | 109.20 | bu | -155 | -123 | -91 | -59 | -27 | 4 | 36 | 68 | 100 | 132 | 164 |
| | | | -262 | -230 | -198 | -166 | -134 | -102 | -70 | -38 | -6 | 25 | 57 |
| 80 | 124.80 | bu | -98 | -61 | -25 | 11 | 47 | 84 | 121 | 157 | 194 | 230 | 267 |
| | | | -205 | -169 | -132 | -95 | -59 | -22 | 13 | 50 | 86 | 123 | 160 |
| 90 | 140.40 | bu | -41 | -0 | 40 | 81 | 123 | 164 | 205 | 246 | 287 | 328 | 369 |
| | | | -148 | -107 | -66 | -25 | 15 | 56 | 97 | 139 | 180 | 221 | 262 |
| 100 | 156.00 | bu | 15 | 60 | 106 | 152 | 198 | 243 | 289 | 335 | 380 | 426 | 472 |
| | | | -92 | -46 | -0 | 45 | 90 | 136 | 182 | 227 | 273 | 319 | 365 |
| 110 | 171.60 | bu | 72 | 122 | 172 | 222 | 273 | 323 | 373 | 424 | 474 | 524 | 574 |
| | | | -35 | 15 | 65 | 115 | 165 | 216 | 266 | 316 | 366 | 417 | 467 |
| 120 | 187.20 | bu | 128 | 183 | 238 | 293 | 348 | 403 | 457 | 512 | 567 | 622 | 677 |
| | | | 21 | 76 | 131 | 186 | 240 | 295 | 350 | 405 | 460 | 515 | 570 |
| 130 | 202.80 | bu | 185 | 245 | 304 | 363 | 423 | 482 | 542 | 601 | 661 | 720 | 779 |
| | | | 78 | 137 | 197 | 256 | 316 | 375 | 434 | 494 | 553 | 613 | 672 |
| 140 | 218.40 | bu | 242 | 306 | 370 | 434 | 498 | 562 | 626 | 690 | 754 | 818 | 882 |
| | | | 135 | 199 | 263 | 327 | 391 | 455 | 519 | 583 | 647 | 711 | 775 |
| 150 | 234.00 | bu | 299 | 367 | 436 | 504 | 573 | 642 | 710 | 779 | 847 | 916 | 984 |
| | | | 191 | 260 | 329 | 397 | 466 | 534 | 603 | 671 | 740 | 808 | 877 |

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 2013 input prices.

Table 7.A Estimated costs per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (10 gal) | appl | 7.75 | 1.0000 | 7.75 | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 1.0000 | 22.50 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Newpath 2SL | oz | 3.24 | 4.0000 | 12.96 | |
| Clearpath | lb | 49.11 | 0.5000 | 24.56 | |
| Aim 2EC | oz | 6.25 | 1.0000 | 6.25 | |
| Beyond | oz | 3.76 | 1.2500 | 4.70 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 82.0000 | 10.58 | |
| Karate Z | oz | 2.73 | 3.0000 | 8.19 | |
| IRRIGATION SUPPLIES | | | | | |
| Roll-Out Pipe | ft | 0.26 | 33.0000 | 8.58 | |
| SEED/PLANTS | | | | | |
| Rice Clearfield | lb | 0.99 | 70.0000 | 69.30 | |
| Rice Seed CF(Levees) | lb | 0.99 | 12.0000 | 11.88 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 4.5000 | 16.74 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 156.0000 | 54.60 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 156.0000 | 62.40 | |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 0.5000 | 2.25 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5563 | 6.96 | |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 1.1250 | 10.18 | |
| Implements | hour | 9.06 | 0.0375 | 0.34 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.2074 | 17.20 | |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | |
| Flood Irr. | gal | 3.30 | 18.7364 | 61.83 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.19 | 1.0000 | 7.19 | |
| Tractors | acre | 2.66 | 1.0000 | 2.66 | |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | |
| Flood Irr. | acre | 11.66 | 1.0000 | 11.66 | |
| INTEREST ON OP. CAP. | acre | 8.91 | 1.0000 | 8.91 | |
| TOTAL DIRECT EXPENSES | | | | 663.41 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 15.12 | 1.0000 | 15.12 | |
| Tractors | acre | 16.08 | 1.0000 | 16.08 | |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | |
| Flood Irr. | acre | 54.77 | 1.0000 | 54.77 | |
| TOTAL FIXED EXPENSES | | | | 107.94 | |
| TOTAL SPECIFIED EXPENSES | | | | 771.35 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 7.B Summary of estimated costs and returns per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 156.0000 | 914.16 | |
| TOTAL INCOME | | | | 914.16 | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 23.75 | 1.0000 | 23.75 | |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | |
| FUNGICIDES | acre | 22.50 | 1.0000 | 22.50 | |
| HERBICIDES | acre | 71.58 | 1.0000 | 71.58 | |
| INSECTICIDES | acre | 18.77 | 1.0000 | 18.77 | |
| IRRIGATION SUPPLIES | acre | 8.58 | 1.0000 | 8.58 | |
| SEED/PLANTS | acre | 81.18 | 1.0000 | 81.18 | |
| ADJUVANTS | acre | 16.74 | 1.0000 | 16.74 | |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | |
| HAULING | acre | 54.60 | 1.0000 | 54.60 | |
| DRYING | acre | 62.40 | 1.0000 | 62.40 | |
| SURVEY & MARK LEVEES | acre | 2.25 | 1.0000 | 2.25 | |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | |
| IRRIGATE LABOR | hour | 9.06 | 1.1625 | 10.52 | |
| OPERATOR LABOR | hour | 12.50 | 0.7323 | 9.16 | |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | |
| DIESEL FUEL | gal | 3.30 | 26.8883 | 88.75 | |
| REPAIR & MAINTENANCE | acre | 27.25 | 1.0000 | 27.25 | |
| INTEREST ON OP. CAP. | acre | 8.91 | 1.0000 | 8.91 | |
| TOTAL DIRECT EXPENSES | | | | 663.41 | |
| RETURNS ABOVE DIRECT EXPENSES | | | | 250.75 | |
| TOTAL FIXED EXPENSES | | | | 107.94 | |
| TOTAL SPECIFIED EXPENSES | | | | 771.35 | |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 142.81 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 7.C Estimated resource use for field operations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ----------hours---------- | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Clearfield | lb | | | | | 70.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 70.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed CF(Levees) | lb | | | | | 12.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 12.0000 | | | | |
| App by Air (10 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Newpath 2SL | oz | | | | | 4.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Clearpath | lb | | | | | 0.5000 | | | | |
| Karate Z | oz | | | | | 2.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| Aim 2EC | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.25 | Jun | 0.2500 | | | | |
| Beyond | oz | | | | | 1.2500 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 0.5000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 1.00 | Jul | 1.0000 | | | | |
| Stratego | pt | | | | | 1.0000 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 156.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.10 | 0.10 | 1.26 | |
| | | | | | | | ------- | ------- | ------- | ------- |
| TOTALS | | | | | | | 0.73 | 0.73 | 2.93 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 7.D Estimated costs for field operations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Clearfield | lb | 69.30 | | | | | 1.30 | 70.60 | | 70.60 |
| Cruiser Maxx Rice | lbseed | 9.03 | | | | | 0.17 | 9.20 | | 9.20 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed CF(Levees) | lb | 11.88 | | | | | 0.22 | 12.10 | | 12.10 |
| Cruiser Maxx Rice | lbseed | 1.55 | | | | | 0.03 | 1.58 | | 1.58 |
| App by Air (10 gal) | appl | 7.75 | | | | | 0.15 | 7.90 | | 7.90 |
| Newpath 2SL | oz | 12.96 | | | | | 0.24 | 13.20 | | 13.20 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.14 | 7.58 | | 7.58 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Clearpath | lb | 24.56 | | | | | 0.38 | 24.94 | | 24.94 |
| Karate Z | oz | 5.46 | | | | | 0.09 | 5.55 | | 5.55 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.12 | 7.56 | | 7.56 |
| Aim 2EC | oz | 6.25 | | | | | 0.10 | 6.35 | | 6.35 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 1.50 | | | | | 0.02 | 1.52 | | 1.52 |
| Beyond | oz | 4.70 | | | | | 0.06 | 4.76 | | 4.76 |
| Crop Oil Conc.(Pet.) | pt | 1.86 | | | | | 0.02 | 1.88 | | 1.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.06 | 6.06 | | 6.06 |
| Stratego | pt | 22.50 | | | | | 0.21 | 22.71 | | 22.71 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 54.60 | | | | | 0.34 | 54.94 | | 54.94 |
| Dry Rice | bu | 62.40 | | | | | 0.39 | 62.79 | | 62.79 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 10.83 | 64.47 | 12.19 | 11.84 | | 1.45 | 100.78 | 57.83 | 158.61 |
| TOTALS | | 502.32 | 88.75 | 27.25 | 36.18 | 0.00 | 8.91 | 663.41 | 107.94 | 771.35 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 7.E Estimated monthly income and expense flows per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 914.16 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 6.00 | 1.50 | 8.50 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.07 | 30.81 | 4.70 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.58 | 5.46 | 0.00 | 2.73 | 0.00 | 0.00 |
| IRRIGATION SUPPLIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.44 | 7.44 | 1.86 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.60 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.40 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.01 | 2.72 | 3.62 | 3.62 | 9.47 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.36 | 16.13 | 16.13 | 16.13 | 10.86 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.57 | 6.65 | 1.77 | 1.77 | 8.15 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.53 | 2.66 | 0.91 | 0.53 | 0.90 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 192.32 | 173.44 | 74.89 | 55.78 | 146.38 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -192.32 | -173.44 | -74.89 | -55.78 | 767.78 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -201.89 | -375.33 | -450.22 | -506.00 | 261.78 | 250.75 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs

Table 7.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 78.00 | bu | -261 | -238 | -216 | -193 | -170 | -147 | -124 | -101 | -78 | -56 | -33 |
| | | | -369 | -346 | -323 | -301 | -278 | -255 | -232 | -209 | -186 | -163 | -141 |
| 60 | 93.60 | bu | -204 | -177 | -150 | -122 | -95 | -67 | -40 | -12 | 14 | 41 | 69 |
| | | | -312 | -285 | -258 | -230 | -203 | -175 | -148 | -120 | -93 | -66 | -38 |
| 70 | 109.20 | bu | -148 | -116 | -84 | -52 | -20 | 11 | 43 | 75 | 107 | 139 | 171 |
| | | | -256 | -224 | -192 | -160 | -128 | -96 | -64 | -32 | -0 | 31 | 63 |
| 80 | 124.80 | bu | -91 | -54 | -18 | 18 | 54 | 91 | 128 | 164 | 201 | 237 | 274 |
| | | | -199 | -162 | -126 | -89 | -53 | -16 | 20 | 56 | 93 | 129 | 166 |
| 90 | 140.40 | bu | -34 | 6 | 47 | 88 | 129 | 171 | 212 | 253 | 294 | 335 | 376 |
| | | | -142 | -101 | -60 | -19 | 22 | 63 | 104 | 145 | 186 | 227 | 268 |
| 100 | 156.00 | bu | 22 | 67 | 113 | 159 | 205 | 250 | 296 | 342 | 387 | 433 | 479 |
| | | | -85 | -40 | 5 | 51 | 97 | 142 | 188 | 234 | 279 | 325 | 371 |
| 110 | 171.60 | bu | 78 | 129 | 179 | 229 | 280 | 330 | 380 | 430 | 481 | 531 | 581 |
| | | | -28 | 21 | 71 | 121 | 172 | 222 | 272 | 323 | 373 | 423 | 473 |
| 120 | 187.20 | bu | 135 | 190 | 245 | 300 | 355 | 410 | 464 | 519 | 574 | 629 | 684 |
| | | | 27 | 82 | 137 | 192 | 247 | 302 | 356 | 411 | 466 | 521 | 576 |
| 130 | 202.80 | bu | 192 | 251 | 311 | 370 | 430 | 489 | 549 | 608 | 667 | 727 | 786 |
| | | | 84 | 144 | 203 | 262 | 322 | 381 | 441 | 500 | 560 | 619 | 678 |
| 140 | 218.40 | bu | 249 | 313 | 377 | 441 | 505 | 569 | 633 | 697 | 761 | 825 | 889 |
| | | | 141 | 205 | 269 | 333 | 397 | 461 | 525 | 589 | 653 | 717 | 781 |
| 150 | 234.00 | bu | 306 | 374 | 443 | 511 | 580 | 648 | 717 | 786 | 854 | 923 | 991 |
| | | | 198 | 266 | 335 | 403 | 472 | 541 | 609 | 678 | 746 | 815 | 883 |

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 2013 input prices.

Table 8.A Estimated costs per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (10 gal) | appl | 7.75 | 1.0000 | 7.75 | |
| App by Air ( 5 gal) | appl | 6.00 | 2.2500 | 13.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| HARVEST AIDS | | | | | |
| Aim 2EC | oz | 6.25 | 1.0000 | 6.25 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 4.0000 | 90.40 | |
| FUNGICIDES | | | | | |
| Stratego | pt | 22.50 | 1.0000 | 22.50 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Newpath 2SL | oz | 3.24 | 4.0000 | 12.96 | |
| Clearpath | lb | 49.11 | 0.5000 | 24.56 | |
| Beyond | oz | 3.76 | 1.2500 | 4.70 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 82.0000 | 10.58 | |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | |
| SEED/PLANTS | | | | | |
| Rice Clearfield | lb | 0.99 | 70.0000 | 69.30 | |
| Rice Seed CF(Levees) | lb | 0.99 | 12.0000 | 11.88 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 4.5000 | 16.74 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.7500 | 33.25 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 164.0000 | 57.40 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 164.0000 | 65.60 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.4510 | 5.64 | |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 1.0500 | 9.53 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 4.4111 | 14.56 | |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | |
| Flood Irr. | gal | 3.30 | 15.4779 | 51.07 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.06 | 1.0000 | 7.06 | |
| Tractors | acre | 2.26 | 1.0000 | 2.26 | |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | |
| Flood Irr. | acre | 9.86 | 1.0000 | 9.86 | |
| INTEREST ON OP. CAP. | acre | 8.40 | 1.0000 | 8.40 | |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 634.57 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.40 | 1.0000 | 14.40 | |
| Tractors | acre | 13.74 | 1.0000 | 13.74 | |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | |
| Flood Irr. | acre | 54.51 | 1.0000 | 54.51 | |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 104.62 | |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 739.19 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 8.B Summary of estimated costs and returns per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 164.0000 | 961.04 | _____ |
| TOTAL INCOME | | | | 961.04 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 23.75 | 1.0000 | 23.75 | _____ |
| HARVEST AIDS | acre | 6.25 | 1.0000 | 6.25 | _____ |
| FERTILIZERS | acre | 106.72 | 1.0000 | 106.72 | _____ |
| FUNGICIDES | acre | 22.50 | 1.0000 | 22.50 | _____ |
| HERBICIDES | acre | 65.33 | 1.0000 | 65.33 | _____ |
| INSECTICIDES | acre | 13.31 | 1.0000 | 13.31 | _____ |
| SEED/PLANTS | acre | 81.18 | 1.0000 | 81.18 | _____ |
| ADJUVANTS | acre | 16.74 | 1.0000 | 16.74 | _____ |
| CUSTOM FERTILIZE | acre | 33.25 | 1.0000 | 33.25 | _____ |
| HAULING | acre | 57.40 | 1.0000 | 57.40 | _____ |
| DRYING | acre | 65.60 | 1.0000 | 65.60 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 1.0500 | 9.53 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.6270 | 7.84 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 22.8336 | 75.35 | _____ |
| REPAIR & MAINTENANCE | acre | 24.92 | 1.0000 | 24.92 | _____ |
| INTEREST ON OP. CAP. | acre | 8.40 | 1.0000 | 8.40 | _____ |
| TOTAL DIRECT EXPENSES | | | | 634.57 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 326.47 | _____ |
| TOTAL FIXED EXPENSES | | | | 104.62 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 739.19 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 221.85 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 8.C Estimated resource use for field operations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | hours | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Clearfield | lb | | | | | 70.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 70.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed CF(Levees) | lb | | | | | 12.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 12.0000 | | | | |
| App by Air (10 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Newpath 2SL | oz | | | | | 4.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.5000 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Clearpath | lb | | | | | 0.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| Aim 2EC | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.25 | Jun | 0.2500 | | | | |
| Beyond | oz | | | | | 1.2500 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 0.5000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.5000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.5000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 5 gal) | appl | | | 1.00 | Jul | 1.0000 | | | | |
| Stratego | pt | | | | | 1.0000 | | | | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 164.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 164.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | | | 1.05 | |
| TOTALS | | | | | | | 0.62 | 0.62 | 2.71 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 8.D Estimated costs for field operations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Clearfield | lb | 69.30 | | | | | 1.30 | 70.60 | | 70.60 |
| Cruiser Maxx Rice | lbseed | 9.03 | | | | | 0.17 | 9.20 | | 9.20 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed CF(Levees) | lb | 11.88 | | | | | 0.22 | 12.10 | | 12.10 |
| Cruiser Maxx Rice | lbseed | 1.55 | | | | | 0.03 | 1.58 | | 1.58 |
| App by Air (10 gal) | appl | 7.75 | | | | | 0.15 | 7.90 | | 7.90 |
| Newpath 2SL | oz | 12.96 | | | | | 0.24 | 13.20 | | 13.20 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.14 | 7.58 | | 7.58 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App Fert by Air | cwt | 17.50 | | | | | 0.27 | 17.77 | | 17.77 |
| Urea, Solid (46% N) | cwt | 56.50 | | | | | 0.88 | 57.38 | | 57.38 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Clearpath | lb | 24.56 | | | | | 0.38 | 24.94 | | 24.94 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.12 | 7.56 | | 7.56 |
| Aim 2EC | oz | 6.25 | | | | | 0.10 | 6.35 | | 6.35 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 1.50 | | | | | 0.02 | 1.52 | | 1.52 |
| Beyond | oz | 4.70 | | | | | 0.06 | 4.76 | | 4.76 |
| Crop Oil Conc.(Pet.) | pt | 1.86 | | | | | 0.02 | 1.88 | | 1.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 10.50 | | | | | 0.13 | 10.63 | | 10.63 |
| Urea, Solid (46% N) | cwt | 33.90 | | | | | 0.42 | 34.32 | | 34.32 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.06 | 6.06 | | 6.06 |
| Stratego | pt | 22.50 | | | | | 0.21 | 22.71 | | 22.71 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 57.40 | | | | | 0.36 | 57.76 | | 57.76 |
| Dry Rice | bu | 65.60 | | | | | 0.41 | 66.01 | | 66.01 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | | 51.07 | 9.86 | 9.53 | | 0.99 | 71.45 | 54.51 | 125.96 |
| TOTALS | | 492.03 | 75.35 | 24.92 | 33.87 | 0.00 | 8.40 | 634.57 | 104.62 | 739.19 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 8.E Estimated monthly income and expense flows per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 961.04 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 6.00 | 1.50 | 8.50 | 0.00 | 0.00 |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.82 | 33.90 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.07 | 24.56 | 4.70 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.58 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.44 | 7.44 | 1.86 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 | 10.50 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 57.40 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 65.60 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.27 | 3.18 | 4.08 | 4.08 | 8.52 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.81 | 13.44 | 13.44 | 13.44 | 10.08 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.77 | 6.19 | 1.31 | 1.31 | 8.00 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 2.53 | 0.88 | 0.50 | 0.93 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 173.05 | 165.16 | 72.17 | 53.06 | 150.53 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -173.05 | -165.16 | -72.17 | -53.06 | 810.51 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -182.62 | -347.78 | -419.95 | -473.01 | 337.50 | 326.47 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 82.00 | bu | -212 | -188 | -164 | -140 | -116 | -92 | -68 | -44 | -20 | 3 | 27 |
| | | | -316 | -292 | -268 | -244 | -220 | -196 | -172 | -148 | -124 | -100 | -76 |
| 60 | 98.40 | bu | -152 | -123 | -94 | -66 | -37 | -8 | 20 | 49 | 78 | 106 | 135 |
| | | | -257 | -228 | -199 | -170 | -141 | -113 | -84 | -55 | -26 | 2 | 31 |
| 70 | 114.80 | bu | -92 | -59 | -25 | 8 | 41 | 75 | 108 | 142 | 176 | 209 | 243 |
| | | | -197 | -163 | -130 | -96 | -62 | -29 | 4 | 37 | 71 | 105 | 138 |
| 80 | 131.20 | bu | -33 | 5 | 43 | 82 | 120 | 159 | 197 | 235 | 274 | 312 | 351 |
| | | | -137 | -99 | -60 | -22 | 15 | 54 | 92 | 131 | 169 | 208 | 246 |
| 90 | 147.60 | bu | 26 | 69 | 113 | 156 | 199 | 242 | 285 | 329 | 372 | 415 | 458 |
| | | | -78 | -34 | 8 | 51 | 94 | 138 | 181 | 224 | 267 | 311 | 354 |
| 100 | 164.00 | bu | 86 | 134 | 182 | 230 | 278 | 326 | 374 | 422 | 470 | 518 | 566 |
| | | | -18 | 29 | 77 | 125 | 173 | 221 | 269 | 317 | 366 | 414 | 462 |
| 110 | 180.40 | bu | 145 | 198 | 251 | 304 | 357 | 410 | 463 | 515 | 568 | 621 | 674 |
| | | | 41 | 94 | 147 | 199 | 252 | 305 | 358 | 411 | 464 | 517 | 569 |
| 120 | 196.80 | bu | 205 | 263 | 320 | 378 | 436 | 493 | 551 | 609 | 666 | 724 | 782 |
| | | | 100 | 158 | 216 | 273 | 331 | 389 | 446 | 504 | 562 | 619 | 677 |
| 130 | 213.20 | bu | 265 | 327 | 390 | 452 | 515 | 577 | 640 | 702 | 765 | 827 | 889 |
| | | | 160 | 223 | 285 | 348 | 410 | 473 | 535 | 597 | 660 | 722 | 785 |
| 140 | 229.60 | bu | 325 | 392 | 459 | 526 | 594 | 661 | 728 | 795 | 863 | 930 | 997 |
| | | | 220 | 287 | 354 | 422 | 489 | 556 | 624 | 691 | 758 | 825 | 893 |
| 150 | 246.00 | bu | 384 | 456 | 528 | 600 | 673 | 745 | 817 | 889 | 961 | 1033 | 1105 |
| | | | 280 | 352 | 424 | 496 | 568 | 640 | 712 | 784 | 856 | 928 | 1000 |

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 2013 input prices.

Table 9.A Estimated costs per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (10 gal) | appl | 7.75 | 1.0000 | 7.75 | |
| App by Air ( 5 gal) | appl | 6.00 | 1.2500 | 7.50 | |
| App by Air ( 3 gal) | appl | 5.00 | 0.5000 | 2.50 | |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.75 | 0.3750 | 6.66 | |
| DAP | cwt | 25.75 | 0.3750 | 9.66 | |
| Urea, Solid (46% N) | cwt | 22.60 | 3.6700 | 82.94 | |
| HERBICIDES | | | | | |
| Command 3ME | pt | 17.11 | 1.0000 | 17.11 | |
| Glyphosate 3lbs a.e | pt | 2.00 | 3.0000 | 6.00 | |
| Newpath 2SL | oz | 3.24 | 4.0000 | 12.96 | |
| Clearpath | lb | 49.11 | 0.5000 | 24.56 | |
| Aim 2EC | oz | 6.25 | 1.0000 | 6.25 | |
| Beyond | oz | 3.76 | 1.2500 | 4.70 | |
| INSECTICIDES | | | | | |
| Cruiser Maxx Rice | lbseed | 0.12 | 29.2500 | 3.77 | |
| Karate Z | oz | 2.73 | 1.0000 | 2.73 | |
| SEED/PLANTS | | | | | |
| Rice Clearfield Hyb | lb | 6.12 | 25.0000 | 153.00 | |
| Rice Seed CFH(Levee) | lb | 6.12 | 4.2500 | 26.01 | |
| ADJUVANTS | | | | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 | 4.5000 | 16.74 | |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 4.4200 | 30.94 | |
| HAULING | | | | | |
| Haul Rice | bu | 0.35 | 179.0000 | 62.65 | |
| DRYING | | | | | |
| Dry Rice | bu | 0.40 | 179.0000 | 71.60 | |
| SURVEY & MARK LEVEES | | | | | |
| Survey & Mark Levees | acre | 4.50 | 0.5000 | 2.25 | |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 12.50 | 0.5281 | 6.60 | |
| Harvesters | hour | 12.50 | 0.1760 | 2.20 | |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 2.3750 | 21.52 | |
| HAND LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2500 | 2.27 | |
| Implements | hour | 9.06 | 0.0926 | 0.84 | |
| RICE MGT. LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.7000 | 6.34 | |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | |
| DIESEL FUEL | | | | | |
| Tractors | gal | 3.30 | 5.0192 | 16.57 | |
| Harvesters | gal | 3.30 | 2.9444 | 9.72 | |
| Flood Irr. | gal | 3.30 | 21.9949 | 72.59 | |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.14 | 1.0000 | 7.14 | |
| Tractors | acre | 2.57 | 1.0000 | 2.57 | |
| Harvesters | acre | 5.74 | 1.0000 | 5.74 | |
| Flood Irr. | acre | 11.97 | 1.0000 | 11.97 | |
| INTEREST ON OP. CAP. | acre | 10.40 | 1.0000 | 10.40 | |
| | | | | --- | |
| TOTAL DIRECT EXPENSES | | | | 741.81 | |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.72 | 1.0000 | 14.72 | |
| Tractors | acre | 15.59 | 1.0000 | 15.59 | |
| Harvesters | acre | 21.97 | 1.0000 | 21.97 | |
| Flood Irr. | acre | 55.03 | 1.0000 | 55.03 | |
| | | | | --- | |
| TOTAL FIXED EXPENSES | | | | 107.31 | |
| | | | | --- | |
| TOTAL SPECIFIED EXPENSES | | | | 849.12 | |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 9.B Summary of estimated costs and returns per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---|---|---|---|---|---|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Rice | bu | 5.86 | 179.0000 | 1048.94 | _____ |
| TOTAL INCOME | | | | 1048.94 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 17.75 | 1.0000 | 17.75 | _____ |
| FERTILIZERS | acre | 99.26 | 1.0000 | 99.26 | _____ |
| HERBICIDES | acre | 71.58 | 1.0000 | 71.58 | _____ |
| INSECTICIDES | acre | 6.51 | 1.0000 | 6.51 | _____ |
| SEED/PLANTS | acre | 179.01 | 1.0000 | 179.01 | _____ |
| ADJUVANTS | acre | 16.74 | 1.0000 | 16.74 | _____ |
| CUSTOM FERTILIZE | acre | 30.94 | 1.0000 | 30.94 | _____ |
| HAULING | acre | 62.65 | 1.0000 | 62.65 | _____ |
| DRYING | acre | 71.60 | 1.0000 | 71.60 | _____ |
| SURVEY & MARK LEVEES | acre | 2.25 | 1.0000 | 2.25 | _____ |
| HAND LABOR | hour | 9.06 | 0.3426 | 3.11 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 2.3750 | 21.52 | _____ |
| OPERATOR LABOR | hour | 12.50 | 0.7041 | 8.80 | _____ |
| RICE MGT. LABOR | hour | 9.06 | 0.7000 | 6.34 | _____ |
| UNALLOCATED LABOR | hour | 12.49 | 0.5643 | 7.05 | _____ |
| DIESEL FUEL | gal | 3.30 | 29.9586 | 98.88 | _____ |
| REPAIR & MAINTENANCE | acre | 27.42 | 1.0000 | 27.42 | _____ |
| INTEREST ON OP. CAP. | acre | 10.40 | 1.0000 | 10.40 | _____ |
| TOTAL DIRECT EXPENSES | | | | 741.81 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 307.13 | _____ |
| TOTAL FIXED EXPENSES | | | | 107.31 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 849.12 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 199.82 | _____ |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 9.C Estimated resource use for field operations, per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | hours | | | |
| Field Cultivate Fld | 32' | MFWD 190 | 0.046 | 2.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Harrow - Folding | 40' | MFWD 190 | 0.038 | 1.00 | Oct | | 0.03 | 0.03 | 0.03 | 0.03 |
| Grain Drill | 24' | MFWD 190 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.15 | 0.07 |
| Rice Clearfield Hyb | lb | | | | | 25.0000 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 25.0000 | | | | |
| Roller/Cultipacker | 30' | MFWD 190 | 0.049 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Spray (Broadcast) | 60' | MFWD 190 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Command 3ME | pt | | | | | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 3.0000 | | | | |
| Seed Levees | | | | 1.00 | Apr | | | | | |
| Rice Seed CFH(Levee) | lb | | | | | 4.2500 | | | | |
| Cruiser Maxx Rice | lbseed | | | | | 4.2500 | | | | |
| App by Air (10 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Newpath 2SL | oz | | | | | 4.0000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| App Fert by Air | cwt | | | 0.75 | May | 0.7500 | | | | |
| Amm Sulfate (21% N) | cwt | | | | | 0.3750 | | | | |
| DAP | cwt | | | | | 0.3750 | | | | |
| App Fert by Air | cwt | | | 1.00 | May | 2.6700 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 2.6700 | | | | |
| App by Air ( 5 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Clearpath | lb | | | | | 0.5000 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 2.0000 | | | | |
| Aim 2EC | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | May | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.10 | |
| App by Air ( 5 gal) | appl | | | 0.25 | Jun | 0.2500 | | | | |
| Beyond | oz | | | | | 1.2500 | | | | |
| Crop Oil Conc.(Pet.) | pt | | | | | 0.5000 | | | | |
| Rice Management | | | | 1.00 | Jun | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App Fert by Air | cwt | | | 1.00 | Jun | 1.0000 | | | | |
| Urea, Solid (46% N) | cwt | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Jul | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| App by Air ( 3 gal) | appl | | | 0.50 | Jul | 0.5000 | | | | |
| Karate Z | oz | | | | | 1.0000 | | | | |
| Rice Management | | | | 1.00 | Aug | | | | | |
| RICE MGT. LABOR | hour | | | | | | | | 0.20 | |
| Header - Draper (SL) | 25' Rigid | 325 hp | 0.176 | 1.00 | Aug | | 0.17 | 0.17 | 0.17 | 0.15 |
| Grain Cart Rice | 700 bu | MFWD 190 | 0.055 | 0.20 | Aug | | 0.01 | 0.01 | 0.01 | 0.00 |
| Handling & Storage | | | | 1.00 | Aug | | | | | |
| HAND LABOR | hour | | | | | | | | 0.25 | |
| Haul Rice | bu | | | 1.00 | Aug | 179.0000 | | | | |
| Dry Rice | bu | | | 1.00 | Aug | 179.0000 | | | | |
| Disk Heavy | 28' | MFWD 190 | 0.075 | 2.00 | Sep | | 0.15 | 0.15 | 0.15 | 0.13 |
| Flood Irr. | acre | | | | Jan | 1.0000 | 0.07 | 0.07 | 2.45 | |
| TOTALS | | | | | | | 0.70 | 0.70 | 4.12 | 0.56 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 9.D Estimated costs for field operations, per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | DIRECT COST | | | | | | | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| | | dollars | | | | | | | | |
| Field Cultivate Fld | 32' | | 3.01 | 1.39 | 2.22 | | 0.25 | 6.87 | 6.60 | 13.47 |
| Harrow - Folding | 40' | | 1.25 | 0.42 | 0.93 | | 0.10 | 2.70 | 1.51 | 4.21 |
| Grain Drill | 24' | | 2.54 | 1.98 | 2.57 | | 0.13 | 7.22 | 5.32 | 12.54 |
| Rice Clearfield Hyb | lb | 153.00 | | | | | 2.87 | 155.87 | | 155.87 |
| Cruiser Maxx Rice | lbseed | 3.23 | | | | | 0.06 | 3.29 | | 3.29 |
| Roller/Cultipacker | 30' | | 1.61 | 0.46 | 1.18 | | 0.06 | 3.31 | 1.79 | 5.10 |
| Spray (Broadcast) | 60' | | 0.91 | 0.28 | 0.80 | | 0.04 | 2.03 | 1.02 | 3.05 |
| Command 3ME | pt | 17.11 | | | | | 0.32 | 17.43 | | 17.43 |
| Glyphosate 3lbs a.e | pt | 6.00 | | | | | 0.11 | 6.11 | | 6.11 |
| Seed Levees | | | | | | | | | | |
| Rice Seed CFH(Levee) | lb | 26.01 | | | | | 0.49 | 26.50 | | 26.50 |
| Cruiser Maxx Rice | lbseed | 0.55 | | | | | 0.01 | 0.56 | | 0.56 |
| App by Air (10 gal) | appl | 7.75 | | | | | 0.15 | 7.90 | | 7.90 |
| Newpath 2SL | oz | 12.96 | | | | | 0.24 | 13.20 | | 13.20 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.14 | 7.58 | | 7.58 |
| App Fert by Air | cwt | 5.25 | | | | | 0.08 | 5.33 | | 5.33 |
| Amm Sulfate (21% N) | cwt | 6.66 | | | | | 0.10 | 6.76 | | 6.76 |
| DAP | cwt | 9.66 | | | | | 0.15 | 9.81 | | 9.81 |
| App Fert by Air | cwt | 18.69 | | | | | 0.29 | 18.98 | | 18.98 |
| Urea, Solid (46% N) | cwt | 60.34 | | | | | 0.94 | 61.28 | | 61.28 |
| App by Air ( 5 gal) | appl | 6.00 | | | | | 0.09 | 6.09 | | 6.09 |
| Clearpath | lb | 24.56 | | | | | 0.38 | 24.94 | | 24.94 |
| Crop Oil Conc.(Pet.) | pt | 7.44 | | | | | 0.12 | 7.56 | | 7.56 |
| Aim 2EC | oz | 6.25 | | | | | 0.10 | 6.35 | | 6.35 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| App by Air ( 5 gal) | appl | 1.50 | | | | | 0.02 | 1.52 | | 1.52 |
| Beyond | oz | 4.70 | | | | | 0.06 | 4.76 | | 4.76 |
| Crop Oil Conc.(Pet.) | pt | 1.86 | | | | | 0.02 | 1.88 | | 1.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App Fert by Air | cwt | 7.00 | | | | | 0.09 | 7.09 | | 7.09 |
| Urea, Solid (46% N) | cwt | 22.60 | | | | | 0.28 | 22.88 | | 22.88 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| App by Air ( 3 gal) | appl | 2.50 | | | | | 0.02 | 2.52 | | 2.52 |
| Karate Z | oz | 2.73 | | | | | 0.03 | 2.76 | | 2.76 |
| Rice Management | | | | | | | | | | |
| RICE MGT. LABOR | hour | | | | 1.81 | | 0.01 | 1.82 | | 1.82 |
| Header - Draper (SL) | 25' Rigid | | 9.72 | 7.84 | 4.18 | | 0.14 | 21.88 | 25.13 | 47.01 |
| Grain Cart Rice | 700 bu | | 0.36 | 0.16 | 0.26 | | | 0.78 | 0.51 | 1.29 |
| Handling & Storage | | | | | | | | | | |
| HAND LABOR | hour | | | | 2.27 | | 0.01 | 2.28 | | 2.28 |
| Haul Rice | bu | 62.65 | | | | | 0.39 | 63.04 | | 63.04 |
| Dry Rice | bu | 71.60 | | | | | 0.45 | 72.05 | | 72.05 |
| Disk Heavy | 28' | | 4.88 | 2.53 | 3.59 | | 0.03 | 11.03 | 8.23 | 19.26 |
| Flood Irr. | acre | 2.25 | 74.60 | 12.36 | 22.48 | | 1.58 | 113.27 | 57.20 | 170.47 |
| TOTALS | | 558.29 | 98.88 | 27.42 | 46.82 | 0.00 | 10.40 | 741.81 | 107.31 | 849.12 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**

Table 9.E Estimated monthly income and expense flows per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dollars | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1048.94 | 0.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 6.00 | 1.50 | 2.50 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 76.66 | 22.60 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.07 | 30.81 | 4.70 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.78 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 179.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.44 | 7.44 | 1.86 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.94 | 7.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.65 | 0.00 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 71.60 | 0.00 |
| SURVEY & MARK LEVEES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.22 | 5.44 | 6.34 | 6.34 | 9.74 | 3.59 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.56 | 18.82 | 18.82 | 18.82 | 10.72 | 4.88 |
| REPAIR & MAINTENANCE | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 6.72 | 1.84 | 1.84 | 8.12 | 2.53 |
| INTEREST ON OP. CAP. | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.16 | 2.73 | 0.81 | 0.30 | 1.02 | 0.03 |
| TOTAL DIRECT EXPENSES | 9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 280.80 | 178.56 | 65.47 | 32.53 | 163.85 | 11.03 |
| NET INCOME | -9.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -280.80 | -178.56 | -65.47 | -32.53 | 885.09 | -11.03 |
| NET INCOME TO DATE | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -9.57 | -290.37 | -468.93 | -534.40 | -566.93 | 318.16 | 307.13 |

Note: Cost of production estimates are based on 2013 input prices.
**Fertilization decisions should be based on soil tests.**
* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2014

| | | | PERCENT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Rice | | | 4.39 | 4.68 | 4.98 | 5.27 | 5.56 | 5.86 | 6.15 | 6.44 | 6.73 | 7.03 | 7.32 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 89.50 | bu | -280 | -254 | -228 | -202 | -176 | -149 | -123 | -97 | -71 | -44 | -18 |
| | | | -388 | -361 | -335 | -309 | -283 | -257 | -230 | -204 | -178 | -152 | -125 |
| 60 | 107.40 | bu | -215 | -184 | -152 | -121 | -89 | -58 | -26 | 4 | 35 | 67 | 98 |
| | | | -323 | -291 | -260 | -228 | -197 | -165 | -134 | -102 | -71 | -39 | -8 |
| 70 | 125.30 | bu | -150 | -113 | -77 | -40 | -3 | 32 | 69 | 106 | 143 | 179 | 216 |
| | | | -257 | -221 | -184 | -147 | -111 | -74 | -37 | -0 | 35 | 72 | 109 |
| 80 | 143.20 | bu | -85 | -43 | -1 | 40 | 82 | 124 | 166 | 208 | 250 | 292 | 334 |
| | | | -192 | -150 | -108 | -66 | -24 | 17 | 59 | 100 | 142 | 184 | 226 |
| 90 | 161.10 | bu | -20 | 26 | 74 | 121 | 168 | 215 | 262 | 310 | 357 | 404 | 451 |
| | | | -127 | -80 | -33 | 14 | 61 | 108 | 155 | 202 | 250 | 297 | 344 |
| 100 | 179.00 | bu | 44 | 97 | 149 | 202 | 254 | 307 | 359 | 412 | 464 | 516 | 569 |
| | | | -62 | -9 | 42 | 94 | 147 | 199 | 252 | 304 | 357 | 409 | 462 |
| 110 | 196.90 | bu | 110 | 167 | 225 | 283 | 340 | 398 | 456 | 513 | 571 | 629 | 686 |
| | | | 2 | 60 | 118 | 175 | 233 | 291 | 348 | 406 | 464 | 521 | 579 |
| 120 | 214.80 | bu | 175 | 238 | 301 | 364 | 426 | 489 | 552 | 615 | 678 | 741 | 804 |
| | | | 67 | 130 | 193 | 256 | 319 | 382 | 445 | 508 | 571 | 634 | 697 |
| 130 | 232.70 | bu | 240 | 308 | 376 | 444 | 513 | 581 | 649 | 717 | 785 | 854 | 922 |
| | | | 133 | 201 | 269 | 337 | 405 | 473 | 542 | 610 | 678 | 746 | 814 |
| 140 | 250.60 | bu | 305 | 378 | 452 | 525 | 599 | 672 | 746 | 819 | 892 | 966 | 1039 |
| | | | 198 | 271 | 345 | 418 | 491 | 565 | 638 | 712 | 785 | 859 | 932 |
| 150 | 268.50 | bu | 370 | 449 | 528 | 606 | 685 | 764 | 842 | 921 | 1000 | 1078 | 1157 |
| | | | 263 | 342 | 420 | 499 | 578 | 656 | 735 | 814 | 892 | 971 | 1050 |

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 2013 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, 2014

| 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 | 274,000 | 300 | 8 | 13.64 | 12.50 | 45.01 | 28.54 | 86.05 | 109.25 | 195.31 |
| Combine (300-349 hp) | 325 hp | 313,000 | 300 | 8 | 16.73 | 12.50 | 55.20 | 32.60 | 100.31 | 124.81 | 225.12 |
| Combine (350-399 hp) | 355 hp | 344,000 | 300 | 8 | 18.27 | 12.50 | 60.29 | 35.83 | 108.62 | 137.17 | 245.79 |
| Combine (400-449 hp) | 425 hp | 356,000 | 300 | 8 | 21.87 | 12.50 | 72.19 | 37.08 | 121.77 | 141.95 | 263.73 |
| Combine (450-499hp) | 475 hp | 378,000 | 300 | 8 | 24.44 | 12.50 | 80.68 | 39.37 | 132.55 | 150.72 | 283.28 |
| Cotton Stripper | 173 hp | 166,000 | 200 | 8 | 8.08 | 12.50 | 26.66 | 25.93 | 65.10 | 99.29 | 164.39 |
| Tractor( 20-39hp)CB | MFWD 30 | 29,900 | 600 | 8 | 1.54 | 12.50 | 5.09 | 0.93 | 18.52 | 5.43 | 23.95 |
| Tractor( 20-39hp)RB | MFWD 30 | 17,700 | 600 | 8 | 1.54 | 12.50 | 5.09 | 0.55 | 18.14 | 3.21 | 21.36 |
| Tractor( 40-59hp)CB | 2WD 50 | 35,100 | 600 | 8 | 2.57 | 12.50 | 8.49 | 1.09 | 22.08 | 6.37 | 28.46 |
| Tractor( 40-59hp)CB | MFWD 50 | 37,500 | 600 | 8 | 2.57 | 12.50 | 8.49 | 1.17 | 22.16 | 6.81 | 28.97 |
| Tractor( 40-59hp)RB | 2WD 50 | 19,300 | 600 | 8 | 2.57 | 12.50 | 8.49 | 0.60 | 21.59 | 3.50 | 25.10 |
| Tractor( 40-59hp)RB | MFWD 50 | 27,700 | 600 | 8 | 2.57 | 12.50 | 8.49 | 0.86 | 21.85 | 5.03 | 26.88 |
| Tractor( 60-89hp)CB | 2WD 75 | 43,400 | 600 | 8 | 3.86 | 12.50 | 12.73 | 1.35 | 26.59 | 7.88 | 34.47 |
| Tractor( 60-89hp)CB | MFWD 75 | 49,200 | 600 | 8 | 3.86 | 12.50 | 12.73 | 1.53 | 26.77 | 8.93 | 35.71 |
| Tractor( 60-89hp)RB | 2WD 75 | 32,200 | 600 | 8 | 3.86 | 12.50 | 12.73 | 1.00 | 26.24 | 5.84 | 32.09 |
| Tractor( 60-89hp)RB | MFWD 75 | 40,600 | 600 | 8 | 3.86 | 12.50 | 12.73 | 1.26 | 26.50 | 7.37 | 33.88 |
| Tractor( 90-119hp)CB | 2WD 105 | 62,100 | 600 | 8 | 5.40 | 12.50 | 17.83 | 1.94 | 32.27 | 11.27 | 43.55 |
| Tractor( 90-119hp)CB | MFWD 105 | 73,400 | 600 | 8 | 5.40 | 12.50 | 17.83 | 2.29 | 32.62 | 13.33 | 45.95 |
| Tractor( 90-119hp)RB | 2WD 105 | 50,200 | 600 | 8 | 5.40 | 12.50 | 17.83 | 1.56 | 31.90 | 9.11 | 41.02 |
| Tractor( 90-119hp)RB | MFWD 105 | 55,700 | 600 | 8 | 5.40 | 12.50 | 17.83 | 1.74 | 32.07 | 10.11 | 42.19 |
| Tractor(120-139hp)CB | 2WD 130 | 95,400 | 600 | 8 | 6.69 | 12.50 | 22.08 | 2.98 | 37.56 | 17.32 | 54.88 |
| Tractor(120-139hp)CB | MFWD 130 | 106,000 | 600 | 8 | 6.69 | 12.50 | 22.08 | 3.31 | 37.89 | 19.25 | 57.14 |
| Tractor(140-159hp)CB | 2WD 150 | 130,000 | 600 | 8 | 7.72 | 12.50 | 25.47 | 4.06 | 42.04 | 23.60 | 65.65 |
| Tractor(140-159hp)CB | MFWD 150 | 137,000 | 600 | 8 | 7.72 | 12.50 | 25.47 | 4.28 | 42.26 | 24.88 | 67.14 |
| Tractor(160-179hp)CB | MFWD 170 | 148,000 | 600 | 8 | 8.75 | 12.50 | 28.87 | 4.62 | 46.00 | 28.19 | 74.19 |
| Tractor(180-199hp)CB | MFWD 190 | 160,000 | 600 | 8 | 9.77 | 12.50 | 32.27 | 5.00 | 49.77 | 30.47 | 80.25 |
| Tractor(200-249hp)CB | MFWD 225 | 218,000 | 600 | 8 | 11.58 | 12.50 | 38.21 | 6.81 | 57.53 | 41.52 | 99.05 |
| Tractor(200-249hp)CB | Track 225 | 268,000 | 600 | 8 | 11.58 | 12.50 | 38.21 | 8.37 | 59.09 | 51.05 | 110.14 |
| Tractor(250-349hp)CB | 4WD 300 | 269,000 | 600 | 8 | 15.44 | 12.50 | 50.95 | 8.40 | 71.86 | 51.24 | 123.10 |
| Tractor(250-349hp)CB | MFWD 300 | 242,000 | 600 | 8 | 15.44 | 12.50 | 50.95 | 7.56 | 71.02 | 46.09 | 117.11 |
| Tractor(250-349hp)CB | Track 300 | 273,000 | 600 | 8 | 15.44 | 12.50 | 50.95 | 8.53 | 71.98 | 52.00 | 123.99 |
| Tractor(350-449hp)CB | 4WD 400 | 290,000 | 600 | 8 | 20.58 | 12.50 | 67.94 | 9.06 | 89.50 | 55.24 | 144.74 |
| Tractor(350-449hp)CB | Track 400 | 340,000 | 600 | 8 | 20.58 | 12.50 | 67.94 | 10.62 | 91.06 | 64.76 | 155.83 |
| Tractor(450-550hp)CB | 4WD 500 | 346,000 | 600 | 8 | 25.73 | 12.50 | 84.92 | 10.81 | 108.24 | 65.91 | 174.15 |
| Tractor(450-550hp)CB | Track 500 | 391,000 | 600 | 8 | 25.73 | 12.50 | 84.92 | 12.21 | 109.64 | 74.48 | 184.13 |
| Utility Vehicle | 800 CC | 7,500 | 200 | 8 | 0.70 | 12.50 | 2.31 | 1.17 | 15.98 | 4.48 | 20.46 |
| Utility Vehicle-mule | 600 CC | 6,200 | 200 | 8 | 0.50 | 12.50 | 1.65 | 0.96 | 15.11 | 3.70 | 18.82 |

Notes:
Labor: Includes allocated labor from power unit.
Total Direct: Does not include interest on operating capital.
CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate,and direct and fixed cost per acre, Mississippi, 2014

| 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 | | | | | |
| Backhoe | 2WD Cab | 73,000 | 0 | 0 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cotton Picker | 4R-30(350) | 350,000 | 200 | 8 | 18.01 | 0.327 | 7.05 | 19.46 | 17.90 | 44.42 | 68.53 | 112.96 |
| Cotton Picker | 4R-38(255) | 267,000 | 200 | 8 | 13.12 | 0.257 | 5.55 | 11.16 | 10.75 | 27.47 | 41.16 | 68.64 |
| Cotton Picker | 4R-38(350) | 406,000 | 200 | 8 | 18.01 | 0.257 | 5.55 | 15.32 | 16.35 | 37.23 | 62.59 | 99.83 |
| Cotton Picker | 4R2x1(350) | 413,000 | 200 | 8 | 18.01 | 0.172 | 3.71 | 10.24 | 11.11 | 25.07 | 42.56 | 67.64 |
| Cotton Picker | 6R-30(355) | 465,000 | 200 | 8 | 18.27 | 0.218 | 4.70 | 13.16 | 15.85 | 33.72 | 60.70 | 94.42 |
| Cotton Picker | 6R-38(355) | 478,000 | 200 | 8 | 18.27 | 0.172 | 3.71 | 10.39 | 12.86 | 26.97 | 49.26 | 76.23 |
| Cotton Picker/Module | 4R-38(365) | 515,000 | 200 | 8 | 18.78 | 0.257 | 5.55 | 15.98 | 20.74 | 42.28 | 79.40 | 121.68 |
| Cotton Picker/Module | 6R-30(365) | 608,000 | 200 | 8 | 18.78 | 0.218 | 4.70 | 13.53 | 20.73 | 38.97 | 79.36 | 118.34 |
| Cotton Picker/Module | 6R-30(500) | 672,000 | 200 | 8 | 25.73 | 0.218 | 4.70 | 18.53 | 22.91 | 46.15 | 87.72 | 133.88 |
| Cotton Picker/Module | 6R-38(365) | 571,000 | 200 | 8 | 18.78 | 0.172 | 3.71 | 10.68 | 15.37 | 29.77 | 58.84 | 88.62 |
| Cotton Picker/Module | 6R-38(500) | 672,000 | 200 | 8 | 25.73 | 0.172 | 3.71 | 14.63 | 18.09 | 36.44 | 69.25 | 105.70 |
| Dry Applicator SP | 70'300cuft | 270,000 | 350 | 8 | 16.98 | 0.015 | 0.25 | 0.84 | 0.21 | 1.32 | 1.39 | 2.71 |
| Sprayer 110Gal | 30' 50hp | 43,300 | 350 | 8 | 2.41 | 0.035 | 0.60 | 0.28 | 0.08 | 0.96 | 0.52 | 1.48 |
| Sprayer 300-450gal | 60' 125hp | 103,000 | 350 | 8 | 5.66 | 0.017 | 0.30 | 0.32 | 0.09 | 0.72 | 0.62 | 1.34 |
| Sprayer 300-450gal | 80' 125hp | 103,000 | 350 | 8 | 6.43 | 0.013 | 0.22 | 0.28 | 0.07 | 0.57 | 0.46 | 1.04 |
| Sprayer 600-750gal | 60' 175hp | 172,000 | 350 | 8 | 9.00 | 0.017 | 0.30 | 0.52 | 0.16 | 0.98 | 1.03 | 2.02 |
| Sprayer 600-825gal | 80' 175hp | 174,000 | 350 | 8 | 11.81 | 0.013 | 0.22 | 0.51 | 0.12 | 0.86 | 0.78 | 1.64 |
| Sprayer 600-825gal | 90' 250hp | 240,000 | 350 | 8 | 12.73 | 0.011 | 0.20 | 0.49 | 0.15 | 0.84 | 0.96 | 1.80 |
| Sprayer 800gal | 100' 250hp | 242,000 | 350 | 8 | 14.15 | 0.010 | 0.18 | 0.49 | 0.13 | 0.81 | 0.87 | 1.68 |
| Sprayer 800gal | 80' 250hp | 237,000 | 350 | 8 | 12.86 | 0.013 | 0.22 | 0.56 | 0.16 | 0.95 | 1.07 | 2.02 |
| Sprayer 1000-1400gal | 90' 275hp | 286,000 | 350 | 8 | 14.15 | 0.010 | 0.18 | 0.49 | 0.16 | 0.83 | 1.03 | 1.87 |
| Sprayer 1000gal | 100' 300hp | 288,000 | 350 | 8 | 15.44 | 0.010 | 0.18 | 0.53 | 0.16 | 0.88 | 1.04 | 1.92 |
| Sprayer 1200+gal | 120' 300hp | 289,000 | 350 | 8 | 15.44 | 0.008 | 0.15 | 0.44 | 0.13 | 0.73 | 0.87 | 1.60 |
| Utility Vehicle | 20' | 8,830 | 200 | 8 | 0.70 | 0.052 | 0.90 | 0.12 | 0.07 | 1.09 | 0.27 | 1.37 |
| Utility Vehicle | 75"ropewic | 8,750 | 200 | 8 | 0.50 | 0.170 | 2.90 | 0.28 | 0.23 | 3.42 | 0.89 | 4.31 |

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, 2014

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | R&M Imp. | R&M P.U. | Total Direct | Fixed Imp. | Fixed P.U. | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dollars | hours | years | hr/ac | $/acre | | | | | | | |
| Bed-Disk (Hipper) | 4R-38 | MFWD 150 | 7,780 | 160 | 10 | 0.147 | 1.84 | 3.76 | 0.28 | 0.63 | 6.52 | 0.73 | 3.67 | 10.93 |
| Bed-Disk (Hipper) | 6R-30 | MFWD 170 | 10,800 | 160 | 10 | 0.125 | 1.56 | 3.60 | 0.33 | 0.57 | 6.08 | 0.86 | 3.52 | 10.47 |
| Bed-Disk (Hipper) | 6R-38 | MFWD 170 | 13,500 | 160 | 10 | 0.098 | 1.23 | 2.84 | 0.33 | 0.45 | 4.87 | 0.84 | 2.78 | 8.50 |
| Bed-Disk (Hipper) | 8R-30 | MFWD 190 | 15,100 | 160 | 10 | 0.093 | 1.17 | 3.02 | 0.35 | 0.46 | 5.02 | 0.90 | 2.85 | 8.77 |
| Bed-Disk (Hipper) | 8R-38 2x1 | MFWD 190 | 28,200 | 160 | 10 | 0.049 | 0.61 | 1.59 | 0.34 | 0.24 | 2.80 | 0.88 | 1.50 | 5.19 |
| Bed-Disk (Hipper) | 10R-30 | MFWD 225 | 22,000 | 160 | 10 | 0.075 | 0.93 | 2.86 | 0.41 | 0.51 | 4.72 | 1.05 | 3.11 | 8.89 |
| Bed-Disk (Hipper) | 10R-38 | MFWD 225 | 22,000 | 160 | 10 | 0.059 | 0.73 | 2.26 | 0.32 | 0.40 | 3.72 | 0.82 | 2.45 | 7.01 |
| Bed-Disk (Hipper) | 12R-30 | MFWD 225 | 28,100 | 160 | 10 | 0.062 | 0.78 | 2.38 | 0.43 | 0.42 | 4.03 | 1.11 | 2.59 | 7.74 |
| Bed-Disk (Hipper) | 12R-38 | MFWD 225 | 28,200 | 160 | 10 | 0.049 | 0.61 | 1.88 | 0.34 | 0.33 | 3.18 | 0.88 | 2.04 | 6.12 |
| Bed-Disk (Hipper)Fl | 8R-38 | MFWD 190 | 20,600 | 160 | 10 | 0.074 | 0.92 | 2.39 | 0.38 | 0.37 | 4.07 | 0.97 | 2.25 | 7.30 |
| Bed-Disk (Hipper)Rd | 8R-38 | MFWD 190 | 16,100 | 160 | 10 | 0.074 | 0.92 | 2.39 | 0.29 | 0.37 | 3.98 | 0.76 | 2.25 | 7.00 |
| Bed-Disk w/roller | 8R-30 | MFWD 190 | 21,000 | 160 | 10 | 0.093 | 1.17 | 3.02 | 0.49 | 0.46 | 5.15 | 1.25 | 2.85 | 9.27 |
| Bed-Disk w/roller | 12R-30 | MFWD 225 | 35,800 | 160 | 10 | 0.062 | 0.78 | 2.38 | 0.55 | 0.42 | 4.15 | 1.42 | 2.59 | 8.17 |
| Bed-Disk w/roller | 8R-38 | MFWD 190 | 29,100 | 160 | 10 | 0.074 | 0.92 | 2.39 | 0.53 | 0.37 | 4.22 | 1.37 | 2.25 | 7.86 |
| Bed-Middle Buster | 4R-38 | MFWD 150 | 10,800 | 160 | 8 | 0.228 | 2.85 | 5.81 | 0.57 | 0.97 | 10.22 | 1.76 | 5.68 | 17.67 |
| Bed-Middle Buster | 6R-38 | MFWD 150 | 12,800 | 160 | 8 | 0.120 | 1.50 | 3.06 | 0.36 | 0.51 | 5.44 | 1.09 | 2.99 | 9.52 |
| Bed-Middle Buster | 8R-30 | MFWD 190 | 20,800 | 160 | 8 | 0.114 | 1.42 | 3.68 | 0.55 | 0.57 | 6.24 | 1.69 | 3.48 | 11.41 |
| Bed-Middle Buster | 8R-38 | MFWD 190 | 18,100 | 160 | 8 | 0.090 | 1.12 | 2.91 | 0.38 | 0.45 | 4.87 | 1.16 | 2.75 | 8.79 |
| Bed-Middle Buster | 8R-38 2x1 | MFWD 190 | 29,200 | 160 | 8 | 0.060 | 0.75 | 1.93 | 0.41 | 0.30 | 3.40 | 1.25 | 1.83 | 6.48 |
| Bed-Middle Buster | 10R-30 | MFWD 225 | 29,300 | 160 | 8 | 0.091 | 1.14 | 3.49 | 0.62 | 0.62 | 5.88 | 1.91 | 3.79 | 11.58 |
| Bed-Middle Buster | 10R-38 | MFWD 225 | 32,100 | 160 | 8 | 0.072 | 0.90 | 2.75 | 0.54 | 0.49 | 4.68 | 1.65 | 2.99 | 9.33 |
| Bed-Middle Buster | 12R-38 | MFWD 225 | 29,200 | 160 | 8 | 0.060 | 0.75 | 2.29 | 0.41 | 0.40 | 3.86 | 1.25 | 2.49 | 7.61 |
| Bed-Paratill Fold | 8R-38 | MFWD 225 | 54,400 | 150 | 12 | 0.080 | 1.00 | 3.08 | 1.58 | 0.55 | 6.23 | 2.64 | 3.35 | 12.23 |
| Bed-Paratill Fold | 8R-38 2x1 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.67 | 2.05 | 1.34 | 0.36 | 4.43 | 2.23 | 2.23 | 8.90 |
| Bed-Paratill Fold | 12R-38 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.67 | 2.05 | 1.34 | 0.36 | 4.43 | 2.23 | 2.23 | 8.90 |
| Bed-Paratill Rigid | 4R-30 | MFWD 225 | 14,800 | 150 | 12 | 0.204 | 2.55 | 7.80 | 1.09 | 1.39 | 12.84 | 1.81 | 8.48 | 23.15 |
| Bed-Paratill Rigid | 4R-38 | MFWD 225 | 14,100 | 150 | 12 | 0.160 | 2.01 | 6.14 | 0.81 | 1.09 | 10.07 | 1.36 | 6.68 | 18.12 |
| Bed-Paratill Rigid | 6R-30 | MFWD 225 | 20,100 | 150 | 12 | 0.136 | 1.70 | 5.20 | 0.98 | 0.92 | 8.82 | 1.64 | 5.65 | 16.13 |
| Bed-Paratill Rigid | 6R-38 | MFWD 225 | 19,000 | 150 | 12 | 0.107 | 1.34 | 4.10 | 0.73 | 0.73 | 6.92 | 1.22 | 4.46 | 12.62 |
| Bed-Paratill Rigid | 8R-30 | MFWD 225 | 28,100 | 150 | 12 | 0.102 | 1.27 | 3.90 | 1.03 | 0.69 | 6.91 | 1.72 | 4.24 | 12.88 |
| Bed-Paratill Rigid | 8R-38 | MFWD 225 | 27,200 | 150 | 12 | 0.080 | 1.00 | 3.08 | 0.79 | 0.55 | 5.43 | 1.32 | 3.35 | 10.11 |
| Bed-Paratill w/rol | 4R-30 | MFWD 225 | 14,100 | 150 | 12 | 0.204 | 2.55 | 7.80 | 1.04 | 1.39 | 12.79 | 1.73 | 8.48 | 23.01 |
| Bed-Paratill w/rol | 4R-38 | MFWD 225 | 14,100 | 150 | 12 | 0.160 | 2.01 | 6.14 | 0.81 | 1.09 | 10.07 | 1.36 | 6.68 | 18.12 |
| Bed-Paratill w/rol | 6R-38 | MFWD 225 | 18,600 | 150 | 12 | 0.107 | 1.34 | 4.10 | 0.72 | 0.73 | 6.90 | 1.20 | 4.46 | 12.57 |
| Bed-Rip/Disk Fold. | 8R-38 | MFWD 190 | 35,200 | 300 | 20 | 0.073 | 0.91 | 2.35 | 0.12 | 0.36 | 3.76 | 0.57 | 2.22 | 6.56 |
| Bed-Rip/Disk Fold. | 12R-30 | MFWD 225 | 52,600 | 300 | 20 | 0.061 | 0.77 | 2.35 | 0.16 | 0.41 | 3.70 | 0.72 | 2.55 | 6.99 |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 52,600 | 300 | 20 | 0.046 | 0.57 | 1.76 | 0.12 | 0.31 | 2.78 | 0.54 | 1.91 | 5.24 |
| Bed-Rip/Disk Rigid | 4R-30 | MFWD 190 | 15,000 | 300 | 20 | 0.184 | 2.31 | 5.96 | 0.13 | 0.92 | 9.34 | 0.62 | 5.63 | 15.59 |
| Bed-Rip/Disk Rigid | 4R-38 | MFWD 190 | 15,000 | 300 | 20 | 0.146 | 1.83 | 4.73 | 0.11 | 0.73 | 7.41 | 0.49 | 4.47 | 12.37 |
| Bed-Rip/Disk Rigid | 6R-38 | MFWD 190 | 23,500 | 300 | 20 | 0.097 | 1.21 | 3.14 | 0.11 | 0.48 | 4.95 | 0.51 | 2.96 | 8.43 |
| Bed-Rip/Disk Rigid | 8R-30 | MFWD 190 | 29,600 | 300 | 20 | 0.139 | 1.73 | 4.48 | 0.20 | 0.69 | 7.12 | 0.92 | 4.23 | 12.28 |
| Bed-Rip/Disk Rigid | 8R-38 | MFWD 190 | 29,600 | 300 | 20 | 0.073 | 0.91 | 2.35 | 0.10 | 0.36 | 3.74 | 0.48 | 2.22 | 6.45 |
| Bed-Rip/Disk Rigid | 6R-30 | MFWD 190 | 23,500 | 300 | 20 | 0.123 | 1.54 | 3.97 | 0.14 | 0.61 | 6.27 | 0.64 | 3.75 | 10.68 |
| Bed-Rip/Disk/Cond. | 6-Row | MFWD 225 | 19,300 | 150 | 12 | 0.107 | 1.34 | 4.10 | 0.74 | 0.73 | 6.93 | 1.24 | 4.46 | 12.65 |
| Bed-Rip/Disk/Cond. | 8-Row | MFWD 225 | 23,000 | 150 | 12 | 0.080 | 1.00 | 3.08 | 0.67 | 0.55 | 5.31 | 1.11 | 3.35 | 9.78 |
| Bed-Roll-Fold. | 8R-38 | MFWD 190 | 26,100 | 160 | 10 | 0.074 | 0.92 | 2.39 | 0.48 | 0.37 | 4.17 | 1.23 | 2.25 | 7.66 |
| Bed-Roll-Fold. | 12R-30 | MFWD 225 | 27,900 | 160 | 10 | 0.062 | 0.78 | 2.38 | 0.43 | 0.42 | 4.03 | 1.11 | 2.59 | 7.73 |
| Bed-Roll-Fold. | 12R-38 | MFWD 225 | 31,000 | 160 | 10 | 0.049 | 0.61 | 1.88 | 0.38 | 0.33 | 3.22 | 0.97 | 2.04 | 6.24 |
| Bed-Roll-Fold. | 16R-30 | MFWD 225 | 32,300 | 160 | 10 | 0.046 | 0.58 | 1.79 | 0.37 | 0.31 | 3.07 | 0.96 | 1.94 | 5.98 |
| Bed-Roll-Rigid | 8R-38 | MFWD 190 | 19,400 | 160 | 10 | 0.074 | 0.92 | 2.39 | 0.35 | 0.37 | 4.04 | 0.91 | 2.25 | 7.22 |
| Blade-Box | 6'-7' | 2WD 130 | 1,070 | 200 | 20 | 0.020 | 0.25 | 0.44 | 0.01 | 0.05 | 0.76 | 0.00 | 0.34 | 1.11 |
| Blade-Box | 8'-10' | 2WD 50 | 4,970 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Box | 12'-16' | 2WD 50 | 7,170 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 6'-7' | 2WD 50 | 1,030 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 8'-10' | 2WD 50 | 3,300 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 12'-16' | 2WD 50 | 6,590 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Boll Buggy | 4R-30(350) | MFWD 190 | 30,500 | 200 | 10 | 0.327 | 4.09 | 10.56 | 2.49 | 1.63 | 18.79 | 4.88 | 9.97 | 33.65 |
| Boll Buggy | 4R-38(255) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.22 | 8.31 | 1.96 | 1.28 | 14.79 | 3.84 | 7.85 | 26.50 |
| Boll Buggy | 4R-38(350) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.22 | 8.31 | 1.96 | 1.28 | 14.79 | 3.84 | 7.85 | 26.50 |
| Boll Buggy | 4R2x1(350) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.15 | 5.56 | 1.31 | 0.86 | 9.89 | 2.57 | 5.25 | 17.71 |
| Boll Buggy | 6R-30(355) | MFWD 190 | 30,500 | 200 | 10 | 0.218 | 2.72 | 7.04 | 1.66 | 1.09 | 12.52 | 3.25 | 6.65 | 22.43 |
| Boll Buggy | 6R-38(355) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.15 | 5.56 | 1.31 | 0.86 | 9.89 | 2.57 | 5.25 | 17.71 |
| Boll Buggy-Stripper | 13' Bcast | MFWD 150 | 30,500 | 200 | 10 | 0.251 | 3.14 | 6.41 | 1.92 | 1.07 | 12.56 | 3.75 | 6.26 | 22.58 |
| Boll Buggy-Stripper | 16' Bcast | MFWD 150 | 30,500 | 200 | 10 | 0.204 | 2.55 | 5.21 | 1.56 | 0.87 | 10.20 | 3.05 | 5.09 | 18.35 |
| Boll Buggy-Stripper | 19' Bcast | MFWD 150 | 30,500 | 200 | 10 | 0.172 | 2.15 | 4.39 | 1.31 | 0.73 | 8.59 | 2.57 | 4.28 | 15.45 |
| Boll Buggy-Stripper | 4R-30 2x1 | MFWD 150 | 30,500 | 200 | 10 | 0.218 | 2.72 | 5.56 | 1.66 | 0.93 | 10.88 | 3.25 | 5.43 | 19.57 |
| Boll Buggy-Stripper | 4R-36 | MFWD 150 | 30,500 | 200 | 10 | 0.272 | 3.41 | 6.95 | 2.08 | 1.16 | 13.60 | 4.07 | 6.78 | 24.47 |
| Boll Buggy-Stripper | 4R-38 | MFWD 150 | 30,500 | 200 | 10 | 0.257 | 3.22 | 6.56 | 1.96 | 1.10 | 12.85 | 3.84 | 6.41 | 23.12 |
| Boll Buggy-Stripper | 4R-38 2x1 | MFWD 150 | 30,500 | 200 | 10 | 0.172 | 2.15 | 4.39 | 1.31 | 0.73 | 8.59 | 2.57 | 4.28 | 15.45 |
| Boll Buggy-Stripper | 5R-30 | MFWD 150 | 30,500 | 200 | 10 | 0.261 | 3.27 | 6.67 | 1.99 | 1.12 | 13.06 | 3.90 | 6.51 | 23.49 |
| Boll Buggy-Stripper | 5R-38 | MFWD 150 | 30,500 | 200 | 10 | 0.207 | 2.59 | 5.27 | 1.57 | 0.88 | 10.33 | 3.09 | 5.15 | 18.58 |
| Boll Buggy-Stripper | 6R-30 | MFWD 150 | 30,500 | 200 | 10 | 0.218 | 2.72 | 5.56 | 1.66 | 0.93 | 10.88 | 3.25 | 5.43 | 19.57 |
| Boll Buggy-Stripper | 6R-38 | MFWD 150 | 30,500 | 200 | 10 | 0.172 | 2.15 | 4.39 | 1.31 | 0.73 | 8.59 | 2.57 | 4.28 | 15.45 |
| Boll Buggy-Stripper | 8R-30 | MFWD 150 | 30,500 | 200 | 10 | 0.163 | 2.04 | 4.17 | 1.24 | 0.70 | 8.16 | 2.44 | 4.07 | 14.68 |
| Boll Buggy-Stripper | 8R-36/38 | MFWD 150 | 30,500 | 200 | 10 | 0.129 | 1.61 | 3.29 | 0.98 | 0.55 | 6.45 | 1.93 | 3.21 | 11.60 |
| Chisel Plow-Folding | 16' | 2WD 130 | 22,500 | 150 | 12 | 0.115 | 1.44 | 2.55 | 0.93 | 0.34 | 5.27 | 1.56 | 2.00 | 8.84 |
| Chisel Plow-Folding | 24' | MFWD 190 | 34,800 | 150 | 12 | 0.076 | 0.95 | 2.46 | 0.96 | 0.38 | 4.76 | 1.60 | 2.33 | 8.69 |
| Chisel Plow-Folding | 32' | MFWD 225 | 38,400 | 150 | 12 | 0.057 | 0.72 | 2.20 | 0.80 | 0.39 | 4.12 | 1.33 | 2.39 | 7.85 |
| Chisel Plow-Folding | 42' | MFWD 225 | 47,000 | 150 | 12 | 0.044 | 0.55 | 1.68 | 0.74 | 0.29 | 3.27 | 1.24 | 1.82 | 6.35 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014 (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 | | | | | | | |
| Chisel Plow-Folding | 50' | MFWD 225 | 69,700 | 150 | 10 | 0.036 | 0.46 | 1.41 | 1.11 | 0.25 | 3.24 | 1.75 | 1.53 | 6.53 |
| Chisel Plow-Folding | 61' | MFWD 225 | 77,200 | 150 | 12 | 0.030 | 0.37 | 1.15 | 0.84 | 0.20 | 2.58 | 1.40 | 1.25 | 5.25 |
| Chisel Plow-Rigid | 10' | MFWD 170 | 7,790 | 150 | 12 | 0.184 | 2.31 | 5.33 | 0.52 | 0.85 | 9.02 | 0.86 | 5.21 | 15.10 |
| Chisel Plow-Rigid | 15' | 2WD 130 | 11,200 | 150 | 12 | 0.123 | 1.54 | 2.72 | 0.49 | 0.36 | 5.12 | 0.83 | 2.13 | 8.09 |
| Chisel Plow-Rigid | 20' | MFWD 225 | 9,900 | 150 | 12 | 0.102 | 1.28 | 3.92 | 0.36 | 0.69 | 6.27 | 0.61 | 4.26 | 11.15 |
| Chisel Plow-Rigid | 24' | MFWD 190 | 10,000 | 150 | 12 | 0.077 | 0.96 | 2.48 | 0.27 | 0.38 | 4.11 | 0.46 | 2.34 | 6.92 |
| Chisel-Harrow | 21 shank | 2WD 190 | 12,100 | 150 | 12 | 0.088 | 1.10 | 2.84 | 0.38 | 0.30 | 4.62 | 0.64 | 1.84 | 7.11 |
| Chisel-Harrow | 27 shank | MFWD 225 | 13,600 | 150 | 12 | 0.068 | 0.85 | 2.61 | 0.33 | 0.46 | 4.27 | 0.56 | 2.84 | 7.67 |
| Coulter-Chisel-Harro | 21 shank | 2WD 190 | 18,800 | 150 | 12 | 0.088 | 1.10 | 2.84 | 0.59 | 0.30 | 4.84 | 0.99 | 1.84 | 7.68 |
| Coulter-Chisel-Harro | 27 shank | MFWD 225 | 23,500 | 150 | 12 | 0.068 | 0.85 | 2.61 | 0.58 | 0.46 | 4.52 | 0.96 | 2.84 | 8.33 |
| Cult & PD Ridge Till | 8R-30 | 2WD 150 | 30,500 | 200 | 12 | 0.110 | 1.87 | 2.80 | 1.60 | 0.44 | 6.73 | 1.56 | 2.59 | 10.89 |
| Cult & PD Ridge Till | 12R-30 | 2WD 190 | 43,200 | 200 | 12 | 0.073 | 1.24 | 2.36 | 1.51 | 0.25 | 5.38 | 1.48 | 1.53 | 8.40 |
| Cultivate | 4R-30 | 2WD 105 | 11,200 | 150 | 10 | 0.206 | 2.57 | 3.67 | 0.61 | 0.40 | 7.27 | 1.57 | 2.32 | 11.16 |
| Cultivate | 4R-38 | 2WD 105 | 10,900 | 150 | 10 | 0.162 | 2.03 | 2.89 | 0.47 | 0.25 | 5.65 | 1.20 | 1.48 | 8.33 |
| Cultivate | 6R-30 | MFWD 150 | 16,300 | 150 | 10 | 0.137 | 1.71 | 3.50 | 0.59 | 0.58 | 6.40 | 1.52 | 3.42 | 11.35 |
| Cultivate | 6R-38 | MFWD 150 | 16,600 | 150 | 10 | 0.108 | 1.35 | 2.76 | 0.48 | 0.46 | 5.06 | 1.22 | 2.70 | 8.99 |
| Cultivate | 8R-30 | MFWD 190 | 20,100 | 150 | 10 | 0.103 | 1.28 | 3.32 | 0.55 | 0.51 | 5.68 | 1.40 | 3.14 | 10.23 |
| Cultivate | 8R-38 | MFWD 190 | 20,500 | 150 | 10 | 0.073 | 0.92 | 2.37 | 0.40 | 0.36 | 4.06 | 1.02 | 2.24 | 7.34 |
| Cultivate | 8R-38 2x1 | MFWD 190 | 31,100 | 150 | 10 | 0.054 | 0.67 | 1.75 | 0.45 | 0.27 | 3.15 | 1.14 | 1.65 | 5.95 |
| Cultivate | 10R-30 | MFWD 225 | 27,400 | 150 | 10 | 0.082 | 1.03 | 3.15 | 0.60 | 0.56 | 5.34 | 1.53 | 3.42 | 10.31 |
| Cultivate | 12R-30 | MFWD 225 | 36,200 | 150 | 10 | 0.068 | 0.85 | 2.62 | 0.66 | 0.46 | 4.61 | 1.69 | 2.85 | 9.16 |
| Cultivate | 12R-38 | MFWD 225 | 38,200 | 150 | 10 | 0.054 | 0.67 | 2.07 | 0.55 | 0.36 | 3.67 | 1.40 | 2.25 | 7.33 |
| Cultivate | 16R-30 | MFWD 225 | 43,500 | 150 | 10 | 0.051 | 0.64 | 1.97 | 0.59 | 0.35 | 3.56 | 1.52 | 2.14 | 7.23 |
| Cultivate & Post | 4R-30 | 2WD 105 | 16,600 | 150 | 10 | 0.220 | 3.74 | 3.92 | 0.97 | 0.34 | 8.98 | 2.48 | 2.00 | 13.47 |
| Cultivate & Post | 4R-38 | 2WD 105 | 16,400 | 150 | 10 | 0.173 | 2.95 | 3.08 | 0.75 | 0.27 | 7.06 | 1.93 | 1.57 | 10.57 |
| Cultivate & Post | 6R-30 | MFWD 150 | 21,800 | 150 | 10 | 0.146 | 2.49 | 3.73 | 0.85 | 0.62 | 7.71 | 2.17 | 3.64 | 13.53 |
| Cultivate & Post | 6R-38 | MFWD 150 | 22,100 | 150 | 10 | 0.115 | 1.97 | 2.95 | 0.68 | 0.49 | 6.10 | 1.73 | 2.88 | 10.72 |
| Cultivate & Post | 8R-30 | MFWD 190 | 25,600 | 150 | 10 | 0.110 | 1.87 | 3.55 | 0.75 | 0.55 | 6.72 | 1.91 | 3.35 | 11.99 |
| Cultivate & Post | 8R-38 | MFWD 190 | 26,000 | 150 | 10 | 0.086 | 1.48 | 2.80 | 0.60 | 0.43 | 5.32 | 1.53 | 2.65 | 9.51 |
| Cultivate & Post | 8R-38 2x1 | MFWD 190 | 38,400 | 150 | 10 | 0.057 | 0.98 | 1.86 | 0.59 | 0.28 | 3.73 | 1.51 | 1.76 | 7.01 |
| Cultivate & Post | 10R-30 | MFWD 225 | 32,800 | 150 | 10 | 0.088 | 1.49 | 3.36 | 0.76 | 0.59 | 6.23 | 1.96 | 3.65 | 11.84 |
| Cultivate & Post | 12R-30 | MFWD 225 | 41,700 | 150 | 10 | 0.073 | 1.24 | 2.80 | 0.81 | 0.49 | 5.36 | 2.07 | 3.04 | 10.49 |
| Cultivate & Post | 12R-38 | MFWD 225 | 45,400 | 150 | 10 | 0.057 | 0.98 | 2.21 | 0.70 | 0.39 | 4.29 | 1.78 | 2.40 | 8.48 |
| Cultivate & Post | 16R-30 | MFWD 225 | 50,700 | 150 | 10 | 0.055 | 0.93 | 2.10 | 0.74 | 0.37 | 4.15 | 1.89 | 2.28 | 8.33 |
| Cultivate Ridge Till | 8R-30 | 2WD 170 | 25,000 | 200 | 12 | 0.103 | 1.28 | 2.97 | 1.23 | 0.38 | 5.88 | 1.20 | 2.33 | 9.42 |
| Cultivate Ridge Till | 12R-30 | 2WD 190 | 37,700 | 200 | 12 | 0.068 | 0.85 | 2.21 | 1.24 | 0.23 | 4.55 | 1.21 | 1.44 | 7.20 |
| Disk & Incorporate | 14' | 2WD 130 | 27,600 | 200 | 10 | 0.149 | 2.54 | 3.30 | 1.23 | 0.44 | 7.53 | 2.10 | 2.59 | 12.23 |
| Disk & Incorporate | 20' | MFWD 190 | 39,800 | 180 | 10 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Disk & Incorporate | 24' | MFWD 190 | 41,400 | 200 | 10 | 0.087 | 1.48 | 2.81 | 1.08 | 0.43 | 5.82 | 1.84 | 2.66 | 10.32 |
| Disk & Incorporate | 28' | MFWD 225 | 47,600 | 200 | 10 | 0.074 | 1.27 | 2.85 | 1.06 | 0.50 | 5.71 | 1.81 | 3.10 | 10.63 |
| Disk & Incorporate | 32' | MFWD 225 | 54,100 | 200 | 10 | 0.065 | 1.11 | 2.50 | 1.06 | 0.44 | 5.12 | 1.80 | 2.71 | 9.65 |
| Disk Harrow | 14' | 2WD 130 | 22,100 | 180 | 10 | 0.140 | 1.75 | 3.09 | 0.86 | 0.41 | 6.13 | 1.75 | 2.43 | 10.31 |
| Disk Harrow | 20' | MFWD 190 | 34,300 | 180 | 10 | 0.098 | 1.22 | 3.16 | 0.93 | 0.49 | 5.82 | 1.90 | 2.99 | 10.72 |
| Disk Harrow | 24' | MFWD 190 | 35,900 | 180 | 10 | 0.081 | 1.02 | 2.64 | 0.81 | 0.40 | 4.89 | 1.66 | 2.49 | 9.04 |
| Disk Harrow | 28' | MFWD 225 | 42,200 | 180 | 10 | 0.070 | 0.87 | 2.68 | 0.82 | 0.47 | 4.85 | 1.67 | 2.91 | 9.44 |
| Disk Harrow | 32' | MFWD 225 | 46,900 | 180 | 10 | 0.061 | 0.76 | 2.34 | 0.79 | 0.41 | 4.33 | 1.63 | 2.54 | 8.51 |
| Disk Harrow | 42' | MFWD 225 | 92,500 | 180 | 10 | 0.046 | 0.58 | 1.78 | 1.20 | 0.31 | 3.89 | 2.45 | 1.94 | 8.28 |
| Disk Harrow 40-100hp | 14' | 2WD 75 | 15,700 | 180 | 10 | 0.140 | 1.75 | 1.78 | 0.61 | 0.14 | 4.29 | 1.24 | 0.82 | 6.36 |
| Disk Heavy | 14' | MFWD 150 | 22,100 | 180 | 10 | 0.145 | 1.82 | 3.71 | 0.89 | 0.62 | 7.06 | 1.82 | 3.63 | 12.52 |
| Disk Heavy | 20' | MFWD 170 | 34,300 | 180 | 10 | 0.097 | 1.21 | 2.80 | 0.92 | 0.45 | 5.40 | 1.89 | 2.74 | 10.03 |
| Disk Heavy | 28' | MFWD 190 | 42,200 | 180 | 10 | 0.075 | 0.94 | 2.44 | 0.88 | 0.37 | 4.65 | 1.80 | 2.30 | 8.76 |
| Disk Ripper | 15' | MFWD 225 | 45,400 | 180 | 10 | 0.136 | 1.70 | 5.20 | 1.71 | 0.92 | 9.55 | 3.50 | 5.65 | 18.71 |
| Ditcher | | 2WD 130 | 4,860 | 200 | 10 | 0.020 | 0.25 | 0.44 | 0.03 | 0.05 | 0.79 | 0.04 | 0.34 | 1.18 |
| Ditcher (1m/160a) | | 2WD 130 | 4,860 | 200 | 10 | 0.009 | 0.11 | 0.20 | 0.01 | 0.02 | 0.37 | 0.02 | 0.16 | 0.55 |
| Fert Appl (Liquid) | 4R-38 | MFWD 150 | 13,100 | 150 | 8 | 0.154 | 2.63 | 3.94 | 1.35 | 0.66 | 8.58 | 1.47 | 3.84 | 13.90 |
| Fert Appl (Liquid) | 6R-30 | MFWD 170 | 14,300 | 150 | 8 | 0.130 | 2.23 | 3.78 | 1.24 | 0.60 | 7.86 | 1.36 | 3.69 | 12.91 |
| Fert Appl (Liquid) | 6R-38 | MFWD 170 | 14,200 | 150 | 8 | 0.103 | 1.76 | 2.98 | 0.97 | 0.47 | 6.20 | 1.06 | 2.91 | 10.18 |
| Fert Appl (Liquid) | 8R-30 | MFWD 190 | 15,100 | 150 | 8 | 0.098 | 1.67 | 3.16 | 0.98 | 0.49 | 6.32 | 1.07 | 2.99 | 10.39 |
| Fert Appl (Liquid) | 8R-38 | MFWD 190 | 15,800 | 150 | 8 | 0.077 | 1.32 | 2.50 | 0.81 | 0.38 | 5.03 | 0.89 | 2.36 | 8.29 |
| Fert Appl (Liquid) | 8R-38 2x1 | MFWD 190 | 17,400 | 150 | 8 | 0.051 | 0.88 | 1.66 | 0.59 | 0.25 | 3.40 | 0.65 | 1.57 | 5.63 |
| Fert Appl (Liquid) | 10R-30 | MFWD 225 | 17,700 | 150 | 8 | 0.078 | 1.33 | 3.00 | 0.92 | 0.53 | 5.80 | 1.01 | 3.26 | 10.07 |
| Fert Appl (Liquid) | 10R-38 | MFWD 225 | 17,700 | 150 | 8 | 0.061 | 1.05 | 2.36 | 0.73 | 0.42 | 4.57 | 0.79 | 2.57 | 7.94 |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 18,200 | 150 | 8 | 0.078 | 1.33 | 3.00 | 0.95 | 0.53 | 5.82 | 1.03 | 3.26 | 10.13 |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 17,400 | 150 | 8 | 0.051 | 0.88 | 1.97 | 0.59 | 0.35 | 3.80 | 0.65 | 2.14 | 6.60 |
| Field Cult & Inc | 42' | MFWD 225 | 58,700 | 100 | 10 | 0.037 | 0.64 | 1.44 | 0.55 | 0.25 | 2.89 | 2.26 | 1.56 | 6.72 |
| Field Cult & Inc | 50' | MFWD 225 | 68,700 | 100 | 10 | 0.031 | 0.54 | 1.21 | 0.54 | 0.21 | 2.51 | 2.22 | 1.31 | 6.05 |
| Field Cult & Inc Fld | 24' | MFWD 170 | 31,500 | 100 | 10 | 0.066 | 1.12 | 1.90 | 0.52 | 0.30 | 3.86 | 2.12 | 1.86 | 7.84 |
| Field Cult & Inc Fld | 32' | MFWD 190 | 45,000 | 100 | 10 | 0.049 | 0.84 | 1.60 | 0.55 | 0.24 | 3.25 | 2.27 | 1.51 | 7.03 |
| Field Cult & Inc Rdg | 12' | 2WD 150 | 16,600 | 100 | 10 | 0.132 | 2.25 | 3.36 | 0.54 | 0.53 | 6.70 | 2.23 | 3.12 | 12.06 |
| Field Cultivate Fld | 24' | MFWD 170 | 26,000 | 100 | 10 | 0.062 | 0.77 | 1.79 | 0.40 | 0.28 | 3.26 | 1.64 | 1.75 | 6.67 |
| Field Cultivate Fld | 32' | MFWD 190 | 39,500 | 100 | 10 | 0.046 | 0.58 | 1.50 | 0.46 | 0.23 | 2.78 | 1.87 | 1.42 | 6.08 |
| Field Cultivate Fld | 42' | MFWD 225 | 51,500 | 100 | 10 | 0.035 | 0.44 | 1.35 | 0.45 | 0.24 | 2.50 | 1.86 | 1.47 | 5.84 |
| Field Cultivate Fld | 50' | MFWD 225 | 61,300 | 100 | 10 | 0.029 | 0.37 | 1.14 | 0.45 | 0.20 | 2.17 | 1.86 | 1.24 | 5.28 |
| Field Cultivate Rdg | 12' | 2WD 150 | 11,100 | 100 | 10 | 0.124 | 1.55 | 3.17 | 0.34 | 0.50 | 5.57 | 1.40 | 2.93 | 9.92 |
| Grain Cart Corn | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.031 | 0.39 | 1.03 | 0.20 | 0.15 | 1.79 | 0.34 | 0.97 | 3.10 |
| Grain Cart Corn | 700 bu | MFWD 190 | 34,000 | 200 | 12 | 0.025 | 0.31 | 0.80 | 0.23 | 0.12 | 1.47 | 0.38 | 0.76 | 2.62 |
| Grain Cart Corn | 1000 bu | MFWD 225 | 43,700 | 200 | 12 | 0.025 | 0.31 | 0.95 | 0.29 | 0.17 | 1.73 | 0.49 | 1.03 | 3.26 |
| Grain Cart Rice | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.062 | 0.78 | 2.01 | 0.40 | 0.31 | 3.51 | 0.66 | 1.90 | 6.08 |
| Grain Cart Rice | 700 bu | MFWD 190 | 34,000 | 200 | 12 | 0.055 | 0.68 | 1.77 | 0.50 | 0.27 | 3.24 | 0.84 | 1.67 | 5.76 |
| Grain Cart Rice | 1000 bu | MFWD 190 | 43,700 | 200 | 12 | 0.045 | 0.57 | 1.47 | 0.54 | 0.22 | 2.82 | 0.90 | 1.39 | 5.12 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | R&M Imp. | R&M P.U. | Total Direct | Fixed Imp. | Fixed P.U. | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dollars | hours | years | hr/ac | $/acre | | | | | | | |
| Grain Cart Soybean | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.025 | 0.31 | 0.82 | 0.16 | 0.12 | 1.43 | 0.27 | 0.77 | 2.48 |
| Grain Cart Soybean | 700 bu | MFWD 190 | 34,000 | 200 | 12 | 0.021 | 0.26 | 0.68 | 0.19 | 0.10 | 1.25 | 0.32 | 0.64 | 2.22 |
| Grain Cart Soybean | 1000 bu | MFWD 190 | 43,700 | 200 | 12 | 0.021 | 0.26 | 0.68 | 0.25 | 0.10 | 1.30 | 0.41 | 0.64 | 2.37 |
| Grain Cart Wht/Sor | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.025 | 0.31 | 0.82 | 0.16 | 0.12 | 1.43 | 0.27 | 0.77 | 2.48 |
| Grain Cart Wht/Sor | 700 bu | MFWD 190 | 34,000 | 200 | 12 | 0.021 | 0.26 | 0.68 | 0.19 | 0.10 | 1.25 | 0.32 | 0.64 | 2.22 |
| Grain Cart Wht/Sor | 1000 bu | MFWD 190 | 43,700 | 200 | 12 | 0.021 | 0.26 | 0.68 | 0.25 | 0.10 | 1.30 | 0.41 | 0.64 | 2.37 |
| Grain Drill | 8' | 2WD 130 | 19,700 | 150 | 8 | 0.235 | 5.08 | 5.20 | 1.74 | 0.70 | 12.73 | 3.20 | 4.08 | 20.02 |
| Grain Drill | 10' | 2WD 130 | 23,600 | 150 | 8 | 0.188 | 4.06 | 4.16 | 1.66 | 0.56 | 10.46 | 3.07 | 3.26 | 16.80 |
| Grain Drill | 12' | 2WD 130 | 22,000 | 150 | 8 | 0.157 | 3.38 | 3.46 | 1.29 | 0.46 | 8.62 | 2.38 | 2.72 | 13.73 |
| Grain Drill | 15' | MFWD 150 | 28,300 | 150 | 8 | 0.125 | 2.71 | 3.20 | 1.33 | 0.53 | 7.78 | 2.45 | 3.12 | 13.37 |
| Grain Drill | 20' | MFWD 170 | 35,500 | 150 | 8 | 0.094 | 2.03 | 2.72 | 1.25 | 0.43 | 6.44 | 2.31 | 2.65 | 11.41 |
| Grain Drill | 24' | MFWD 190 | 54,000 | 150 | 8 | 0.078 | 1.69 | 2.53 | 1.59 | 0.39 | 6.21 | 2.93 | 2.39 | 11.53 |
| Grain Drill | 30' | MFWD 225 | 58,600 | 150 | 8 | 0.062 | 1.35 | 2.40 | 1.38 | 0.42 | 5.56 | 2.54 | 2.61 | 10.72 |
| Grain Drill | 35' | MFWD 225 | 80,200 | 150 | 8 | 0.053 | 1.16 | 2.05 | 1.62 | 0.36 | 5.20 | 2.98 | 2.23 | 10.43 |
| Grain Drill & Pre | 8' | 2WD 130 | 25,200 | 150 | 8 | 0.253 | 5.47 | 5.60 | 2.39 | 0.75 | 14.23 | 4.41 | 4.39 | 23.05 |
| Grain Drill & Pre | 10' | 2WD 130 | 29,100 | 150 | 8 | 0.203 | 4.37 | 4.48 | 2.21 | 0.60 | 11.68 | 4.08 | 3.51 | 19.28 |
| Grain Drill & Pre | 12' | 2WD 130 | 27,500 | 150 | 8 | 0.169 | 3.64 | 3.73 | 1.74 | 0.50 | 9.63 | 3.21 | 2.93 | 15.78 |
| Grain Drill & Pre | 15' | MFWD 150 | 33,800 | 150 | 8 | 0.135 | 2.91 | 3.44 | 1.71 | 0.57 | 8.66 | 3.16 | 3.36 | 15.19 |
| Grain Drill & Pre | 20' | MFWD 170 | 41,000 | 150 | 8 | 0.101 | 2.18 | 2.93 | 1.56 | 0.46 | 7.15 | 2.87 | 2.86 | 12.89 |
| Grain Drill & Pre | 24' | MFWD 190 | 59,500 | 150 | 8 | 0.084 | 1.82 | 2.73 | 1.88 | 0.42 | 6.86 | 3.47 | 2.57 | 12.92 |
| Grain Drill & Pre | 30' | MFWD 225 | 64,100 | 150 | 8 | 0.067 | 1.45 | 2.58 | 1.62 | 0.46 | 6.13 | 2.99 | 2.81 | 11.94 |
| Grain Drill & Pre | 35' | MFWD 225 | 85,700 | 150 | 8 | 0.058 | 1.25 | 2.21 | 1.86 | 0.39 | 5.72 | 3.43 | 2.40 | 11.57 |
| Grain Drill & Pre T | 8R-38 | MFWD 225 | 44,000 | 150 | 8 | 0.062 | 1.35 | 2.40 | 1.03 | 0.42 | 5.22 | 1.91 | 2.61 | 9.74 |
| Harrow - Rigid | 21' | 2WD 150 | 5,400 | 200 | 10 | 0.073 | 0.92 | 1.88 | 0.13 | 0.30 | 3.24 | 0.20 | 1.74 | 5.19 |
| Harrow - Folding | 16' | MFWD 190 | 5,000 | 200 | 10 | 0.097 | 1.21 | 3.13 | 0.16 | 0.48 | 5.00 | 0.24 | 2.95 | 8.20 |
| Harrow - Folding | 24' | MFWD 190 | 12,100 | 200 | 10 | 0.064 | 0.80 | 2.08 | 0.27 | 0.32 | 3.49 | 0.39 | 1.97 | 5.86 |
| Harrow - Folding | 30' | MFWD 190 | 13,600 | 200 | 10 | 0.051 | 0.64 | 1.67 | 0.24 | 0.25 | 2.82 | 0.35 | 1.57 | 4.75 |
| Harrow - Folding | 40' | MFWD 190 | 16,700 | 200 | 10 | 0.038 | 0.48 | 1.25 | 0.22 | 0.19 | 2.15 | 0.33 | 1.18 | 3.67 |
| Harrow - Folding | 48' | MFWD 225 | 21,000 | 200 | 10 | 0.032 | 0.40 | 1.23 | 0.23 | 0.22 | 2.09 | 0.34 | 1.34 | 3.78 |
| Harrow - Rigid | 13' | 2WD 130 | 3,780 | 200 | 10 | 0.119 | 1.49 | 2.63 | 0.15 | 0.35 | 4.64 | 0.23 | 2.06 | 6.94 |
| Header - Corn | 6R-30 | 265 hp | 42,300 | 300 | 8 | 0.170 | 2.12 | 7.66 | 1.80 | 4.86 | 16.45 | 2.61 | 18.60 | 37.67 |
| Header - Corn | 6R-38 | 265 hp | 43,500 | 300 | 8 | 0.134 | 1.68 | 6.05 | 1.46 | 3.83 | 13.03 | 2.12 | 14.68 | 29.84 |
| Header - Corn | 8R-30 | 265 hp | 54,700 | 300 | 8 | 0.127 | 1.59 | 5.74 | 1.74 | 3.64 | 12.73 | 2.53 | 13.95 | 29.22 |
| Header - Corn | 8R-38 | 325 hp | 56,300 | 300 | 8 | 0.100 | 1.26 | 5.57 | 1.42 | 3.29 | 11.54 | 2.06 | 12.60 | 26.21 |
| Header - Corn | 12R-20 | 325 hp | 76,200 | 300 | 8 | 0.127 | 1.59 | 7.05 | 2.43 | 4.16 | 15.24 | 3.53 | 15.93 | 34.71 |
| Header - Corn | 12R-30 | 325 hp | 85,800 | 300 | 8 | 0.085 | 1.06 | 4.70 | 1.82 | 2.77 | 10.36 | 2.65 | 10.62 | 23.64 |
| Header - Draper (CL) | 25' Rigid | 265 hp | 52,000 | 300 | 8 | 0.203 | 2.53 | 9.14 | 2.42 | 5.79 | 19.89 | 3.64 | 22.18 | 45.73 |
| Header - Draper (CL) | 30' Rigid | 325 hp | 56,300 | 300 | 8 | 0.169 | 2.11 | 9.34 | 2.18 | 5.51 | 19.15 | 3.29 | 21.12 | 43.57 |
| Header - Draper (CL) | 36' Rigid | 355 hp | 61,600 | 300 | 8 | 0.141 | 1.76 | 8.50 | 1.99 | 5.05 | 17.31 | 3.00 | 19.34 | 39.65 |
| Header - Draper (SL) | 25' Rigid | 325 hp | 52,000 | 300 | 8 | 0.176 | 2.20 | 9.71 | 2.09 | 5.73 | 19.75 | 3.16 | 21.96 | 44.88 |
| Header - Draper (SL) | 30' Rigid | 325 hp | 56,300 | 300 | 8 | 0.146 | 1.83 | 8.09 | 1.89 | 4.78 | 16.60 | 2.85 | 18.30 | 37.76 |
| Header - Draper (SL) | 36' Rigid | 355 hp | 61,600 | 300 | 8 | 0.122 | 1.52 | 7.36 | 1.72 | 4.37 | 15.00 | 2.60 | 16.76 | 34.36 |
| Header - Rice (CL) | 25' Rigid | 325 hp | 51,600 | 300 | 8 | 0.253 | 3.17 | 14.01 | 3.27 | 8.27 | 28.73 | 4.75 | 31.68 | 65.18 |
| Header - Rice (CL) | 30' Rigid | 325 hp | 59,000 | 300 | 8 | 0.211 | 2.64 | 11.67 | 3.12 | 6.89 | 24.34 | 4.53 | 26.40 | 55.27 |
| Header - Rice (SL) | 25' Rigid | 325 hp | 51,600 | 300 | 8 | 0.220 | 2.75 | 12.14 | 2.83 | 7.17 | 24.90 | 4.12 | 27.45 | 56.48 |
| Header - Rice (SL) | 30' Rigid | 325 hp | 59,000 | 300 | 8 | 0.183 | 2.29 | 10.12 | 2.70 | 5.97 | 21.09 | 3.92 | 22.88 | 47.90 |
| Header -RiceStrp(CL) | 20' | 265 hp | 46,300 | 300 | 8 | 0.253 | 3.17 | 11.42 | 2.93 | 7.24 | 24.78 | 4.26 | 27.73 | 56.78 |
| Header -RiceStrp(CL) | 24' | 325 hp | 50,800 | 300 | 8 | 0.211 | 2.64 | 11.67 | 2.68 | 6.89 | 23.90 | 3.90 | 26.40 | 54.21 |
| Header -RiceStrp(CL) | 32' | 325 hp | 56,000 | 300 | 8 | 0.158 | 1.98 | 8.75 | 2.22 | 5.17 | 18.13 | 3.22 | 19.80 | 41.16 |
| Header -RiceStrp(SL) | 20' | 265 hp | 46,300 | 300 | 8 | 0.220 | 2.75 | 9.90 | 2.54 | 6.27 | 21.47 | 3.69 | 24.03 | 49.21 |
| Header -RiceStrp(SL) | 24' | 325 hp | 50,800 | 300 | 8 | 0.183 | 2.29 | 10.12 | 2.32 | 5.97 | 20.71 | 3.38 | 22.88 | 46.98 |
| Header -RiceStrp(SL) | 32' | 325 hp | 56,000 | 300 | 8 | 0.137 | 1.71 | 7.59 | 1.92 | 4.48 | 15.71 | 2.79 | 17.16 | 35.67 |
| Header -Soybean | 22' Flex | 265 hp | 28,900 | 300 | 8 | 0.116 | 1.45 | 5.22 | 0.83 | 3.31 | 10.82 | 1.21 | 12.68 | 24.73 |
| Header -Soybean | 25' Flex | 325 hp | 31,300 | 300 | 8 | 0.102 | 1.27 | 5.64 | 0.79 | 3.33 | 11.04 | 1.16 | 12.75 | 24.96 |
| Header -Soybean | 30' Flex | 325 hp | 27,900 | 300 | 8 | 0.085 | 1.06 | 4.70 | 0.59 | 2.77 | 9.13 | 0.86 | 10.62 | 20.62 |
| Header -Soybean | 35' Flex | 355 hp | 41,200 | 300 | 8 | 0.072 | 0.91 | 4.40 | 0.75 | 2.61 | 8.67 | 1.09 | 10.01 | 19.78 |
| Header Wheat/Sorghum | 22' Rigid | 265 hp | 23,100 | 300 | 8 | 0.116 | 1.45 | 5.22 | 0.67 | 3.31 | 10.66 | 0.97 | 12.68 | 24.32 |
| Header Wheat/Sorghum | 25' Rigid | 325 hp | 27,000 | 300 | 8 | 0.102 | 1.27 | 5.64 | 0.68 | 3.33 | 10.93 | 1.00 | 12.75 | 24.69 |
| Header Wheat/Sorghum | 30' Rigid | 325 hp | 30,000 | 300 | 8 | 0.085 | 1.06 | 4.70 | 0.63 | 2.77 | 9.17 | 0.92 | 10.62 | 20.73 |
| Header-Cotton Bcast | 13' | 173 hp | 19,400 | 200 | 8 | 0.251 | 5.42 | 6.71 | 0.91 | 6.53 | 19.59 | 2.66 | 25.00 | 47.25 |
| Header-Cotton-Bcast | 16' | 173 hp | 21,600 | 200 | 8 | 0.204 | 4.41 | 5.45 | 0.82 | 5.30 | 16.00 | 2.40 | 20.31 | 38.72 |
| Header-Cotton-Bcast | 19' | 173 hp | 23,900 | 200 | 8 | 0.172 | 3.71 | 4.59 | 0.77 | 4.46 | 13.55 | 2.24 | 17.10 | 32.90 |
| Header-Cotton-Brush | 4R-30 2x1 | 173 hp | 33,400 | 200 | 8 | 0.218 | 4.70 | 5.81 | 1.36 | 5.66 | 17.55 | 3.97 | 21.67 | 43.19 |
| Header-Cotton-Brush | 4R-36 | 173 hp | 33,300 | 200 | 8 | 0.272 | 5.88 | 7.27 | 1.70 | 7.07 | 21.93 | 4.94 | 27.08 | 53.97 |
| Header-Cotton-Brush | 4R-38 | 173 hp | 33,300 | 200 | 8 | 0.257 | 5.55 | 6.87 | 1.60 | 6.68 | 20.72 | 4.67 | 25.59 | 50.99 |
| Header-Cotton-Brush | 4R-38 2x1 | 173 hp | 35,200 | 200 | 8 | 0.172 | 3.71 | 4.59 | 1.13 | 4.46 | 13.91 | 3.30 | 17.10 | 34.32 |
| Header-Cotton-Brush | 5R-30 | 173 hp | 41,900 | 200 | 8 | 0.261 | 5.64 | 6.98 | 2.05 | 6.79 | 21.48 | 5.97 | 26.00 | 53.46 |
| Header-Cotton-Brush | 5R-38 | 173 hp | 43,300 | 200 | 8 | 0.207 | 4.46 | 5.52 | 1.68 | 5.37 | 17.04 | 4.88 | 20.57 | 42.50 |
| Header-Cotton-Brush | 6R-30 | 173 hp | 51,500 | 200 | 8 | 0.218 | 4.70 | 5.81 | 2.10 | 5.66 | 18.29 | 6.12 | 21.67 | 46.08 |
| Header-Cotton-Brush | 6R-38 | 173 hp | 53,100 | 200 | 8 | 0.172 | 3.71 | 4.59 | 1.71 | 4.46 | 14.49 | 4.98 | 17.10 | 36.58 |
| Header-Cotton-Brush | 8R-30 | 173 hp | 71,100 | 200 | 8 | 0.163 | 3.52 | 4.36 | 2.18 | 4.24 | 14.32 | 6.34 | 16.25 | 36.91 |
| Header-Cotton-Brush | 8R-36/38 | 173 hp | 72,600 | 200 | 8 | 0.129 | 2.78 | 3.45 | 1.76 | 3.35 | 11.35 | 5.11 | 12.84 | 29.32 |
| Land Plane | 50'x16' | MFWD 190 | 12,000 | 200 | 10 | 0.151 | 1.89 | 4.89 | 0.36 | 0.75 | 7.91 | 0.92 | 4.62 | 13.46 |
| Levee Pull & Seed | 8 Blade | MFWD 170 | 10,200 | 100 | 10 | 0.003 | 0.04 | 0.10 | 0.00 | 0.01 | 0.17 | 0.03 | 0.10 | 0.30 |
| Levee Pull (1m/80a) | 8 blade | MFWD 170 | 7,120 | 100 | 10 | 0.003 | 0.04 | 0.10 | 0.00 | 0.01 | 0.16 | 0.02 | 0.10 | 0.29 |
| Levee Splitter (1/80 | 32" | MFWD 150 | 3,280 | 100 | 10 | 0.004 | 0.05 | 0.10 | 0.00 | 0.01 | 0.17 | 0.01 | 0.10 | 0.29 |
| Module Builder | 4R-30(350) | MFWD 190 | 33,500 | 200 | 10 | 0.327 | 7.05 | 10.56 | 2.74 | 1.63 | 22.00 | 5.36 | 9.97 | 37.34 |
| Module Builder | 4R-38(255) | MFWD 190 | 33,500 | 200 | 10 | 0.257 | 5.55 | 8.31 | 2.15 | 1.28 | 17.32 | 4.22 | 7.85 | 29.40 |
| Module Builder | 4R-38(350) | MFWD 190 | 33,500 | 200 | 10 | 0.257 | 5.55 | 8.31 | 2.15 | 1.28 | 17.32 | 4.22 | 7.85 | 29.40 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | R&M Imp. | R&M P.U. | Total Direct | Fixed Imp. | Fixed P.U. | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dollars | hours | years | hr/ac | $/acre | | | | | | | |
| Module Builder | 4R2x1(350) | MFWD 190 | 33,500 | 200 | 10 | 0.172 | 3.71 | 5.56 | 1.44 | 0.86 | 11.58 | 2.82 | 5.25 | 19.65 |
| Module Builder | 6R-30(355) | MFWD 190 | 33,500 | 200 | 10 | 0.218 | 4.70 | 7.04 | 1.82 | 1.09 | 14.66 | 3.57 | 6.65 | 24.89 |
| Module Builder | 6R-38(355) | MFWD 190 | 33,500 | 200 | 10 | 0.172 | 3.71 | 5.56 | 1.44 | 0.86 | 11.58 | 2.82 | 5.25 | 19.65 |
| Module Builder-Strip | 13' Bcast | MFWD 150 | 33,500 | 200 | 10 | 0.251 | 5.42 | 6.41 | 2.10 | 1.07 | 15.03 | 4.12 | 6.26 | 25.42 |
| Module Builder-Strip | 16' Bcast | MFWD 150 | 33,500 | 200 | 10 | 0.204 | 4.41 | 5.21 | 1.71 | 0.87 | 12.21 | 3.35 | 5.09 | 20.66 |
| Module Builder-Strip | 19' Bcast | MFWD 150 | 33,500 | 200 | 10 | 0.172 | 3.71 | 4.39 | 1.44 | 0.73 | 10.28 | 2.82 | 4.28 | 17.39 |
| Module Builder-Strip | 4R-30 2x1 | MFWD 150 | 3,300 | 200 | 10 | 0.218 | 4.70 | 5.56 | 0.18 | 0.93 | 11.38 | 0.35 | 5.43 | 17.16 |
| Module Builder-Strip | 4R-36 | MFWD 150 | 3,300 | 200 | 10 | 0.272 | 5.88 | 6.95 | 0.22 | 1.16 | 14.22 | 0.44 | 6.78 | 21.45 |
| Module Builder-Strip | 4R-38 | MFWD 150 | 33,500 | 200 | 10 | 0.257 | 5.55 | 6.56 | 2.15 | 1.10 | 15.38 | 4.22 | 6.41 | 26.02 |
| Module Builder-Strip | 4R-38 2x1 | MFWD 150 | 33,500 | 200 | 10 | 0.172 | 3.71 | 4.39 | 1.44 | 0.73 | 10.28 | 2.82 | 4.28 | 17.39 |
| Module Builder-Strip | 5R-30 | MFWD 150 | 33,500 | 200 | 10 | 0.261 | 5.64 | 6.67 | 2.19 | 1.12 | 15.63 | 4.29 | 6.51 | 26.44 |
| Module Builder-Strip | 5R-38 | MFWD 150 | 33,500 | 200 | 10 | 0.207 | 4.46 | 5.27 | 1.73 | 0.88 | 12.36 | 3.39 | 5.15 | 20.92 |
| Module Builder-Strip | 6R-30 | MFWD 150 | 33,500 | 200 | 10 | 0.218 | 4.70 | 5.56 | 1.82 | 0.93 | 13.02 | 3.57 | 5.43 | 22.03 |
| Module Builder-Strip | 6R-38 | MFWD 190 | 33,500 | 200 | 10 | 0.172 | 3.71 | 5.56 | 1.44 | 0.86 | 11.58 | 2.82 | 5.25 | 19.65 |
| Module Builder-Strip | 8R-36/38 | MFWD 190 | 33,500 | 200 | 10 | 0.129 | 2.78 | 4.17 | 1.08 | 0.64 | 8.69 | 2.12 | 3.94 | 14.76 |
| NT Grain Drill | 6' | MFWD 170 | 21,100 | 150 | 8 | 0.327 | 7.05 | 9.45 | 2.59 | 1.51 | 20.61 | 4.77 | 9.22 | 34.61 |
| NT Grain Drill | 10' | 2WD 130 | 33,300 | 150 | 8 | 0.235 | 5.08 | 5.20 | 2.94 | 0.70 | 13.93 | 5.42 | 4.08 | 23.43 |
| NT Grain Drill | 12' | 2WD 130 | 34,000 | 150 | 8 | 0.163 | 3.52 | 3.61 | 2.08 | 0.48 | 9.71 | 3.84 | 2.83 | 16.39 |
| NT Grain Drill | 15' | MFWD 150 | 45,000 | 150 | 8 | 0.130 | 2.82 | 3.33 | 2.20 | 0.56 | 8.93 | 4.07 | 3.25 | 16.25 |
| NT Grain Drill | 20' | MFWD 170 | 62,600 | 150 | 8 | 0.098 | 2.11 | 2.83 | 2.30 | 0.45 | 7.71 | 4.24 | 2.76 | 14.72 |
| NT Grain Drill | 24' | MFWD 190 | 77,000 | 150 | 8 | 0.081 | 1.76 | 2.64 | 2.36 | 0.40 | 7.17 | 4.35 | 2.49 | 14.02 |
| NT Grain Drill | 30' | MFWD 225 | 88,000 | 150 | 8 | 0.065 | 1.41 | 2.50 | 2.16 | 0.44 | 6.52 | 3.98 | 2.71 | 13.22 |
| NT Grain Drill & Pre | 6' | MFWD 170 | 26,600 | 150 | 8 | 0.352 | 7.60 | 10.18 | 3.51 | 1.63 | 22.92 | 6.47 | 9.93 | 39.34 |
| NT Grain Drill & Pre | 10' | 2WD 130 | 38,800 | 150 | 8 | 0.211 | 4.56 | 4.67 | 3.07 | 0.63 | 12.94 | 5.67 | 3.66 | 22.27 |
| NT Grain Drill & Pre | 12' | 2WD 130 | 39,500 | 150 | 8 | 0.176 | 3.80 | 3.89 | 2.61 | 0.52 | 10.82 | 4.81 | 3.05 | 18.69 |
| NT Grain Drill & Pre | 15' | MFWD 150 | 50,500 | 150 | 8 | 0.141 | 3.04 | 3.59 | 2.67 | 0.60 | 9.90 | 4.92 | 3.50 | 18.33 |
| NT Grain Drill & Pre | 20' | MFWD 170 | 68,100 | 150 | 8 | 0.105 | 2.28 | 3.05 | 2.70 | 0.48 | 8.52 | 4.97 | 2.98 | 16.48 |
| NT Grain Drill & Pre | 24' | MFWD 190 | 82,500 | 150 | 8 | 0.088 | 1.90 | 2.84 | 2.72 | 0.44 | 7.91 | 5.02 | 2.68 | 15.62 |
| NT Grain Drill & Pre | 30' | MFWD 225 | 93,400 | 150 | 8 | 0.070 | 1.52 | 2.69 | 2.46 | 0.48 | 7.16 | 4.55 | 2.92 | 14.64 |
| NT Plant&Pre-Folding | 8R-38 | MFWD 170 | 45,200 | 150 | 8 | 0.083 | 1.80 | 2.41 | 1.41 | 0.38 | 6.02 | 2.61 | 2.35 | 10.98 |
| NT Plant&Pre-Folding | 8R-38 2x1 | MFWD 170 | 74,800 | 150 | 8 | 0.055 | 1.20 | 1.60 | 1.56 | 0.25 | 4.62 | 2.87 | 1.56 | 9.07 |
| NT Plant&Pre-Folding | 12R-20 | MFWD 190 | 68,100 | 150 | 8 | 0.105 | 2.28 | 3.41 | 2.70 | 0.52 | 8.92 | 4.97 | 3.22 | 17.12 |
| NT Plant&Pre-Folding | 12R-30 | MFWD 190 | 67,500 | 150 | 8 | 0.070 | 1.52 | 2.27 | 1.78 | 0.35 | 5.93 | 3.28 | 2.14 | 11.37 |
| NT Plant&Pre-Folding | 12R-38 | MFWD 190 | 74,800 | 150 | 8 | 0.055 | 1.20 | 1.79 | 1.56 | 0.27 | 4.83 | 2.87 | 1.69 | 9.41 |
| NT Plant&Pre-Folding | 16R-30 | MFWD 190 | 96,000 | 150 | 8 | 0.052 | 1.14 | 1.70 | 1.90 | 0.26 | 5.01 | 3.50 | 1.61 | 10.13 |
| NT Plant&Pre-Folding | 23R-15 | MFWD 190 | 123,000 | 150 | 8 | 0.073 | 1.58 | 2.37 | 3.38 | 0.36 | 7.70 | 6.24 | 2.23 | 16.18 |
| NT Plant&Pre-Folding | 24R-15 | MFWD 225 | 127,000 | 150 | 8 | 0.070 | 1.52 | 2.69 | 3.35 | 0.48 | 8.05 | 6.18 | 2.92 | 17.16 |
| NT Plant&Pre-Folding | 24R-20 | MFWD 190 | 140,000 | 150 | 8 | 0.052 | 1.14 | 1.70 | 2.77 | 0.26 | 5.88 | 5.11 | 1.61 | 12.61 |
| NT Plant&Pre-Folding | 24R-30 | MFWD 190 | 161,000 | 150 | 8 | 0.035 | 0.76 | 1.13 | 2.12 | 0.17 | 4.20 | 3.92 | 1.07 | 9.20 |
| NT Plant&Pre-Folding | 31R-15 | MFWD 225 | 145,000 | 150 | 8 | 0.054 | 1.17 | 2.08 | 2.97 | 0.37 | 6.61 | 5.47 | 2.26 | 14.35 |
| NT Plant&Pre-Folding | 32R-15 | MFWD 225 | 158,000 | 150 | 8 | 0.052 | 1.14 | 2.02 | 3.13 | 0.36 | 6.65 | 5.77 | 2.19 | 14.62 |
| NT Plant&Pre-Folding | 36R-20 | MFWD 225 | 176,000 | 150 | 8 | 0.035 | 0.76 | 1.34 | 2.32 | 0.24 | 4.67 | 4.28 | 1.46 | 10.42 |
| NT Plant&Pre-Rigid | 4R-30 | 2WD 130 | 26,300 | 150 | 8 | 0.211 | 4.56 | 4.67 | 2.08 | 0.63 | 11.94 | 3.84 | 3.66 | 19.45 |
| NT Plant&Pre-Rigid | 4R-38 | 2WD 130 | 27,700 | 150 | 8 | 0.166 | 3.59 | 3.67 | 1.73 | 0.49 | 9.49 | 3.18 | 2.88 | 15.56 |
| NT Plant&Pre-Rigid | 6R-30 | MFWD 150 | 34,400 | 150 | 8 | 0.141 | 3.04 | 3.59 | 1.81 | 0.60 | 9.05 | 3.35 | 3.50 | 15.91 |
| NT Plant&Pre-Rigid | 6R-38 | MFWD 150 | 31,800 | 150 | 8 | 0.111 | 2.40 | 2.83 | 1.32 | 0.47 | 7.04 | 2.44 | 2.77 | 12.25 |
| NT Plant&Pre-Rigid | 8R-30 | MFWD 170 | 39,800 | 150 | 8 | 0.105 | 2.28 | 3.05 | 1.57 | 0.48 | 7.40 | 2.90 | 2.98 | 13.29 |
| NT Plant&Pre-Rigid | 8R-38 | MFWD 170 | 37,800 | 150 | 8 | 0.083 | 1.80 | 2.41 | 1.18 | 0.38 | 5.78 | 2.18 | 2.35 | 10.32 |
| NT Plant&Pre-Rigid | 10R-30 | MFWD 190 | 44,300 | 150 | 8 | 0.084 | 1.82 | 2.73 | 1.40 | 0.42 | 6.38 | 2.58 | 2.57 | 11.55 |
| NT Plant&Pre-Rigid | 11R-15 | MFWD 170 | 49,300 | 150 | 8 | 0.143 | 3.10 | 4.15 | 2.66 | 0.66 | 10.58 | 4.90 | 4.05 | 19.54 |
| NT Plant&Pre-Rigid | 11R-20 | MFWD 170 | 43,300 | 150 | 8 | 0.115 | 2.49 | 3.33 | 1.87 | 0.53 | 8.24 | 3.45 | 3.25 | 14.95 |
| NT Plant&Pre-Rigid | 12R-20 | MFWD 190 | 50,200 | 150 | 8 | 0.105 | 2.28 | 3.41 | 1.99 | 0.52 | 8.21 | 3.66 | 3.22 | 15.10 |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 190 | 61,900 | 150 | 8 | 0.070 | 1.52 | 2.27 | 1.63 | 0.35 | 5.78 | 3.01 | 2.14 | 10.94 |
| NT Plant&Pre-Rigid | 13R-18/20 | MFWD 225 | 53,300 | 150 | 8 | 0.097 | 2.10 | 3.72 | 1.94 | 0.66 | 8.43 | 3.58 | 4.04 | 16.07 |
| NT Plant&Pre-Rigid | 15R-15 | MFWD 190 | 60,500 | 150 | 8 | 0.113 | 2.43 | 3.65 | 2.56 | 0.56 | 9.22 | 4.72 | 3.44 | 17.39 |
| NT Plant&Pre-TwinRow | 12R-30/40 | MFWD 225 | 133,000 | 150 | 8 | 0.055 | 1.20 | 2.12 | 2.77 | 0.37 | 6.48 | 5.11 | 2.31 | 13.91 |
| NT Plant&Pre-TwinRow | 8R-30/40 | MFWD 225 | 112,000 | 150 | 8 | 0.083 | 1.80 | 3.19 | 3.51 | 0.56 | 9.07 | 6.46 | 3.47 | 19.02 |
| NT Plant-Folding | 8R-38 | MFWD 170 | 39,800 | 150 | 8 | 0.077 | 1.67 | 2.24 | 1.15 | 0.35 | 5.43 | 2.13 | 2.18 | 9.75 |
| NT Plant-Folding | 8R-38 2x1 | MFWD 170 | 67,600 | 150 | 8 | 0.051 | 1.11 | 1.49 | 1.31 | 0.23 | 4.15 | 2.41 | 1.45 | 8.02 |
| NT Plant-Folding | 12R-20 | MFWD 190 | 62,600 | 150 | 8 | 0.098 | 2.11 | 3.16 | 2.30 | 0.49 | 8.08 | 4.24 | 2.99 | 15.32 |
| NT Plant-Folding | 12R-30 | MFWD 190 | 62,000 | 150 | 8 | 0.065 | 1.41 | 2.11 | 1.52 | 0.32 | 5.37 | 2.80 | 1.99 | 10.17 |
| NT Plant-Folding | 12R-38 | MFWD 190 | 67,600 | 150 | 8 | 0.051 | 1.11 | 1.66 | 1.31 | 0.25 | 4.35 | 2.41 | 1.57 | 8.34 |
| NT Plant-Folding | 16R-30 | MFWD 190 | 88,800 | 150 | 8 | 0.049 | 1.05 | 1.58 | 1.63 | 0.24 | 4.52 | 3.01 | 1.49 | 9.03 |
| NT Plant-Folding | 23R-15 | MFWD 190 | 118,000 | 150 | 8 | 0.068 | 1.47 | 2.20 | 3.01 | 0.34 | 7.03 | 5.56 | 2.07 | 14.66 |
| NT Plant-Folding | 24R-15 | MFWD 225 | 121,000 | 150 | 8 | 0.065 | 1.41 | 2.50 | 2.97 | 0.44 | 7.33 | 5.47 | 2.71 | 15.52 |
| NT Plant-Folding | 24R-20 | MFWD 190 | 132,000 | 150 | 8 | 0.049 | 1.05 | 1.58 | 2.43 | 0.24 | 5.32 | 4.47 | 1.49 | 11.29 |
| NT Plant-Folding | 24R-30 | MFWD 190 | 151,000 | 150 | 8 | 0.032 | 0.70 | 1.05 | 1.85 | 0.16 | 3.78 | 3.41 | 0.99 | 8.19 |
| NT Plant-Folding | 31R-15 | MFWD 225 | 136,000 | 150 | 8 | 0.050 | 1.09 | 1.93 | 2.58 | 0.34 | 5.96 | 4.76 | 2.10 | 12.84 |
| NT Plant-Folding | 32R-15 | MFWD 225 | 148,000 | 150 | 8 | 0.049 | 1.05 | 1.87 | 2.72 | 0.33 | 5.99 | 5.02 | 2.03 | 13.05 |
| NT Plant-Folding | 36R-20 | MFWD 225 | 165,000 | 150 | 8 | 0.032 | 0.70 | 1.25 | 2.02 | 0.22 | 4.20 | 3.73 | 1.35 | 9.29 |
| NT Plant-Rigid | 4R-30 | 2WD 130 | 20,800 | 150 | 8 | 0.196 | 4.23 | 4.33 | 1.53 | 0.58 | 10.69 | 2.82 | 3.40 | 16.91 |
| NT Plant-Rigid | 4R-38 | 2WD 130 | 22,300 | 150 | 8 | 0.154 | 3.33 | 3.41 | 1.29 | 0.46 | 8.50 | 2.38 | 2.67 | 13.56 |
| NT Plant-Rigid | 6R-30 | MFWD 150 | 29,000 | 150 | 8 | 0.130 | 2.82 | 3.33 | 1.42 | 0.56 | 8.14 | 2.62 | 3.25 | 14.02 |
| NT Plant-Rigid | 6R-38 | MFWD 150 | 26,300 | 150 | 8 | 0.103 | 2.22 | 2.63 | 1.01 | 0.44 | 6.32 | 1.87 | 2.57 | 10.77 |
| NT Plant-Rigid | 8R-30 | MFWD 170 | 34,300 | 150 | 8 | 0.098 | 2.11 | 2.83 | 1.26 | 0.45 | 6.67 | 2.32 | 2.76 | 11.76 |
| NT Plant-Rigid | 8R-38 | MFWD 170 | 32,300 | 150 | 8 | 0.077 | 1.67 | 2.24 | 0.94 | 0.35 | 5.21 | 1.73 | 2.18 | 9.13 |
| NT Plant-Rigid | 10R-30 | MFWD 190 | 38,800 | 150 | 8 | 0.078 | 1.69 | 2.53 | 1.14 | 0.39 | 5.76 | 2.10 | 2.39 | 10.26 |
| NT Plant-Rigid | 11R-15 | MFWD 170 | 43,800 | 150 | 8 | 0.133 | 2.88 | 3.85 | 2.19 | 0.61 | 9.55 | 4.04 | 3.76 | 17.36 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014 (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 | 11R-20 | MFWD 170 | 38,000 | 150 | 8 | 0.107 | 2.31 | 3.09 | 1.52 | 0.49 | 7.43 | 2.81 | 3.02 | 13.28 |
| NT Plant-Rigid | 12R-20 | MFWD 190 | 44,700 | 150 | 8 | 0.098 | 2.11 | 3.16 | 1.64 | 0.49 | 7.42 | 3.03 | 2.99 | 13.45 |
| NT Plant-Rigid | 12R-30 | MFWD 190 | 53,400 | 150 | 8 | 0.065 | 1.41 | 2.11 | 1.31 | 0.32 | 5.16 | 2.41 | 1.99 | 9.57 |
| NT Plant-Rigid | 13R-18/20 | MFWD 225 | 47,800 | 150 | 8 | 0.090 | 1.96 | 3.47 | 1.63 | 0.61 | 7.68 | 3.00 | 3.77 | 14.46 |
| NT Plant-Rigid | 15R-15 | MFWD 190 | 53,300 | 150 | 8 | 0.105 | 2.26 | 3.38 | 2.09 | 0.52 | 8.27 | 3.86 | 3.20 | 15.34 |
| NT Plant-TwinRow | 12R-30/40 | MFWD 225 | 126,000 | 150 | 8 | 0.051 | 1.11 | 1.97 | 2.44 | 0.35 | 5.88 | 4.49 | 2.14 | 12.53 |
| NT Plant-TwinRow | 8R-30/40 | MFWD 225 | 106,000 | 150 | 8 | 0.077 | 1.67 | 2.96 | 3.08 | 0.52 | 8.25 | 5.68 | 3.22 | 17.16 |
| One-Trip Prep | 4R-38 | MFWD 170 | 18,000 | 150 | 10 | 0.146 | 1.83 | 4.23 | 1.23 | 0.67 | 7.98 | 1.79 | 4.13 | 13.91 |
| One-Trip Prep | 6R-38 | MFWD 190 | 21,600 | 150 | 10 | 0.097 | 1.21 | 3.14 | 0.98 | 0.48 | 5.82 | 1.42 | 2.96 | 10.21 |
| One-Trip Prep | 8R-38 | MFWD 225 | 32,100 | 150 | 10 | 0.073 | 0.92 | 2.82 | 1.10 | 0.50 | 5.36 | 1.61 | 3.07 | 10.04 |
| Peanut Cond.& Lifter | 6-Row | MFWD 190 | 12,300 | 300 | 20 | 0.100 | 1.25 | 3.22 | 0.20 | 0.50 | 5.18 | 0.28 | 3.04 | 8.51 |
| Peanut Conditioner | 6-Row | MFWD 190 | 14,900 | 300 | 20 | 0.100 | 1.25 | 3.22 | 0.29 | 0.50 | 5.27 | 0.30 | 3.04 | 8.62 |
| Peanut Dig/Invertor | 4R-30 | MFWD 190 | 25,800 | 300 | 15 | 0.235 | 2.94 | 7.61 | 1.51 | 1.17 | 13.25 | 1.74 | 7.18 | 22.18 |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 25,800 | 300 | 15 | 0.186 | 2.32 | 6.00 | 1.19 | 0.93 | 10.46 | 1.37 | 5.67 | 17.51 |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 37,700 | 300 | 15 | 0.124 | 1.55 | 4.00 | 0.82 | 0.62 | 6.99 | 1.33 | 3.78 | 12.11 |
| Peanut Dump Cart | 6-Row | MFWD 190 | 44,200 | 300 | 20 | 0.310 | 3.87 | 10.00 | 0.79 | 1.55 | 16.22 | 3.07 | 9.44 | 28.75 |
| Peanut Harvester | 4R-30 | MFWD 225 | 117,000 | 300 | 20 | 0.849 | 10.62 | 32.48 | 5.63 | 5.79 | 54.53 | 20.20 | 35.29 | 110.03 |
| Peanut Harvester | 4R-38 | MFWD 225 | 117,000 | 300 | 20 | 0.934 | 11.68 | 35.71 | 6.19 | 6.36 | 59.96 | 23.37 | 38.81 | 122.14 |
| Peanut Harvester | 6R-38 | MFWD 225 | 134,000 | 300 | 20 | 0.625 | 7.81 | 23.88 | 4.04 | 4.25 | 40.00 | 17.90 | 25.95 | 83.86 |
| Peanut Lifter | 6-Row | MFWD 225 | 5,910 | 300 | 20 | 0.100 | 1.25 | 3.82 | 0.12 | 0.68 | 5.87 | 0.12 | 4.15 | 10.14 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 190 | 72,100 | 150 | 8 | 0.080 | 1.73 | 2.59 | 2.17 | 0.40 | 6.90 | 4.00 | 2.45 | 13.36 |
| Peanut Plt&Pre Rigid | 8R-30 | MFWD 190 | 38,000 | 150 | 8 | 0.152 | 3.29 | 4.93 | 2.17 | 0.76 | 11.16 | 4.01 | 4.65 | 19.83 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 190 | 36,000 | 150 | 8 | 0.120 | 2.60 | 3.89 | 1.63 | 0.60 | 8.73 | 3.00 | 3.68 | 15.42 |
| Pipe Spool 160ac | 1/4m roll | 2WD 130 | 3,380 | 15 | 12 | 0.003 | 0.09 | 0.06 | 0.00 | 0.00 | 0.17 | 0.06 | 0.05 | 0.29 |
| Pipe Trailer 1m/160a | 30' | 2WD 130 | 1,330 | 100 | 15 | 0.003 | 0.18 | 0.08 | 0.00 | 0.01 | 0.27 | 0.00 | 0.06 | 0.34 |
| Plant & Pre-Folding | 8R-38 | MFWD 170 | 43,500 | 150 | 8 | 0.080 | 1.73 | 2.31 | 1.30 | 0.37 | 5.72 | 2.41 | 2.26 | 10.40 |
| Plant & Pre-Folding | 8R-38 2x1 | MFWD 170 | 72,100 | 150 | 8 | 0.053 | 1.15 | 1.54 | 1.44 | 0.24 | 4.38 | 2.66 | 1.50 | 8.55 |
| Plant & Pre-Folding | 12R-20 | MFWD 190 | 65,400 | 150 | 8 | 0.101 | 2.18 | 3.27 | 2.49 | 0.50 | 8.46 | 4.58 | 3.09 | 16.14 |
| Plant & Pre-Folding | 12R-30 | MFWD 190 | 64,800 | 150 | 8 | 0.067 | 1.45 | 2.18 | 1.64 | 0.33 | 5.62 | 3.03 | 2.06 | 10.72 |
| Plant & Pre-Folding | 12R-38 | MFWD 190 | 72,100 | 150 | 8 | 0.053 | 1.15 | 1.72 | 1.44 | 0.26 | 4.58 | 2.66 | 1.62 | 8.87 |
| Plant & Pre-Folding | 16R-30 | MFWD 190 | 92,400 | 150 | 8 | 0.050 | 1.09 | 1.63 | 1.75 | 0.25 | 4.74 | 3.24 | 1.54 | 9.53 |
| Plant & Pre-Folding | 23R-15 | MFWD 190 | 118,000 | 150 | 8 | 0.070 | 1.52 | 2.27 | 3.12 | 0.35 | 7.26 | 5.74 | 2.14 | 15.16 |
| Plant & Pre-Folding | 24R-15 | MFWD 225 | 121,000 | 150 | 8 | 0.067 | 1.45 | 2.58 | 3.07 | 0.46 | 7.57 | 5.65 | 2.81 | 16.04 |
| Plant & Pre-Folding | 24R-20 | MFWD 190 | 134,000 | 150 | 8 | 0.050 | 1.09 | 1.63 | 2.55 | 0.25 | 5.53 | 4.70 | 1.54 | 11.78 |
| Plant & Pre-Folding | 24R-30 | MFWD 190 | 156,000 | 150 | 8 | 0.033 | 0.72 | 1.09 | 1.98 | 0.16 | 3.97 | 3.64 | 1.03 | 8.65 |
| Plant & Pre-Folding | 31R-15 | MFWD 225 | 138,000 | 150 | 8 | 0.052 | 1.13 | 2.00 | 2.71 | 0.35 | 6.20 | 5.00 | 2.17 | 13.39 |
| Plant & Pre-Folding | 32R-15 | MFWD 225 | 151,000 | 150 | 8 | 0.050 | 1.09 | 1.94 | 2.87 | 0.34 | 6.25 | 5.29 | 2.10 | 13.66 |
| Plant & Pre-Folding | 36R-20 | MFWD 225 | 167,000 | 150 | 8 | 0.033 | 0.72 | 1.29 | 2.11 | 0.23 | 4.37 | 3.90 | 1.40 | 9.68 |
| Plant & Pre-Rigid | 4R-30 | 2WD 130 | 25,400 | 150 | 8 | 0.203 | 4.37 | 4.48 | 1.93 | 0.60 | 11.40 | 3.56 | 3.51 | 18.48 |
| Plant & Pre-Rigid | 4R-38 | 2WD 130 | 26,800 | 150 | 8 | 0.159 | 3.44 | 3.53 | 1.60 | 0.47 | 9.06 | 2.96 | 2.77 | 14.79 |
| Plant & Pre-Rigid | 6R-30 | MFWD 150 | 33,100 | 150 | 8 | 0.135 | 2.91 | 3.44 | 1.68 | 0.57 | 8.62 | 3.09 | 3.36 | 15.09 |
| Plant & Pre-Rigid | 6R-38 | MFWD 150 | 30,400 | 150 | 8 | 0.106 | 2.30 | 2.72 | 1.21 | 0.45 | 6.70 | 2.24 | 2.65 | 11.60 |
| Plant & Pre-Rigid | 8R-30 | MFWD 170 | 38,000 | 150 | 8 | 0.101 | 2.18 | 2.93 | 1.44 | 0.46 | 7.03 | 2.66 | 2.86 | 12.56 |
| Plant & Pre-Rigid | 8R-38 | MFWD 170 | 36,000 | 150 | 8 | 0.080 | 1.73 | 2.31 | 1.08 | 0.37 | 5.50 | 1.99 | 2.26 | 9.76 |
| Plant & Pre-Rigid | 10R-30 | MFWD 190 | 42,000 | 150 | 8 | 0.081 | 1.75 | 2.62 | 1.27 | 0.40 | 6.05 | 2.35 | 2.47 | 10.89 |
| Plant & Pre-Rigid | 11R-15 | MFWD 170 | 46,800 | 150 | 8 | 0.148 | 3.19 | 4.28 | 2.60 | 0.68 | 10.76 | 4.79 | 4.17 | 19.73 |
| Plant & Pre-Rigid | 11R-20 | MFWD 170 | 41,000 | 150 | 8 | 0.110 | 2.39 | 3.20 | 1.70 | 0.51 | 7.81 | 3.14 | 3.12 | 14.08 |
| Plant & Pre-Rigid | 12R-20 | MFWD 190 | 47,500 | 150 | 8 | 0.101 | 2.18 | 3.27 | 1.80 | 0.50 | 7.78 | 3.33 | 3.09 | 14.20 |
| Plant & Pre-Rigid | 12R-30 | MFWD 190 | 59,200 | 150 | 8 | 0.067 | 1.45 | 2.18 | 1.50 | 0.33 | 5.48 | 2.76 | 2.06 | 10.31 |
| Plant & Pre-Rigid | 13R-18/20 | MFWD 225 | 50,400 | 150 | 8 | 0.093 | 2.01 | 3.57 | 1.76 | 0.63 | 8.00 | 3.25 | 3.88 | 15.14 |
| Plant & Pre-Rigid | 15R-15 | MFWD 190 | 57,100 | 150 | 8 | 0.108 | 2.34 | 3.50 | 2.32 | 0.54 | 8.71 | 4.28 | 3.31 | 16.30 |
| Plant & Pre-TwinRow | 12R-30/40 | MFWD 225 | 128,000 | 150 | 8 | 0.053 | 1.15 | 2.04 | 2.56 | 0.36 | 6.12 | 4.72 | 2.21 | 13.06 |
| Plant & Pre-TwinRow | 8R-30/40 | MFWD 225 | 108,000 | 150 | 8 | 0.080 | 1.73 | 3.06 | 3.25 | 0.54 | 8.59 | 5.98 | 3.33 | 17.91 |
| Plant - Folding | 8R-38 | MFWD 170 | 38,000 | 150 | 8 | 0.074 | 1.60 | 2.15 | 1.06 | 0.34 | 5.16 | 1.95 | 2.10 | 9.22 |
| Plant - Folding | 8R-38 2x1 | MFWD 170 | 64,900 | 150 | 8 | 0.049 | 1.06 | 1.43 | 1.20 | 0.22 | 3.93 | 2.22 | 1.39 | 7.56 |
| Plant - Folding | 12R-20 | MFWD 190 | 59,900 | 150 | 8 | 0.094 | 2.03 | 3.04 | 2.11 | 0.47 | 7.66 | 3.90 | 2.87 | 14.44 |
| Plant - Folding | 12R-30 | MFWD 190 | 59,300 | 150 | 8 | 0.062 | 1.35 | 2.02 | 1.39 | 0.31 | 5.09 | 2.57 | 1.91 | 9.58 |
| Plant - Folding | 12R-38 | MFWD 190 | 64,900 | 150 | 8 | 0.049 | 1.06 | 1.60 | 1.20 | 0.24 | 4.12 | 2.22 | 1.51 | 7.86 |
| Plant - Folding | 16R-30 | MFWD 190 | 85,200 | 150 | 8 | 0.047 | 1.01 | 1.52 | 1.50 | 0.23 | 4.27 | 2.77 | 1.43 | 8.49 |
| Plant - Folding | 23R-15 | MFWD 190 | 112,000 | 150 | 8 | 0.065 | 1.41 | 2.11 | 2.75 | 0.32 | 6.60 | 5.06 | 1.99 | 13.66 |
| Plant - Folding | 24R-15 | MFWD 225 | 116,000 | 150 | 8 | 0.062 | 1.35 | 2.40 | 2.73 | 0.42 | 6.92 | 5.03 | 2.61 | 14.56 |
| Plant - Folding | 24R-20 | MFWD 190 | 127,000 | 150 | 8 | 0.047 | 1.01 | 1.52 | 2.24 | 0.23 | 5.01 | 4.13 | 1.43 | 10.59 |
| Plant - Folding | 24R-30 | MFWD 190 | 145,000 | 150 | 8 | 0.031 | 0.67 | 1.01 | 1.70 | 0.15 | 3.55 | 3.14 | 0.95 | 7.66 |
| Plant - Folding | 31R-15 | MFWD 225 | 128,000 | 150 | 8 | 0.048 | 1.05 | 1.86 | 2.33 | 0.33 | 5.58 | 4.30 | 2.02 | 11.91 |
| Plant - Folding | 32R-15 | MFWD 225 | 141,000 | 150 | 8 | 0.047 | 1.01 | 1.80 | 2.49 | 0.32 | 5.63 | 4.59 | 1.95 | 12.18 |
| Plant - Folding | 36R-20 | MFWD 225 | 157,000 | 150 | 8 | 0.031 | 0.67 | 1.20 | 1.85 | 0.21 | 3.94 | 3.40 | 1.30 | 8.65 |
| Plant - Rigid | 4R-30 | 2WD 130 | 19,900 | 150 | 8 | 0.188 | 4.06 | 4.16 | 1.40 | 0.56 | 10.19 | 2.59 | 3.26 | 16.05 |
| Plant - Rigid | 4R-38 | 2WD 130 | 21,400 | 150 | 8 | 0.148 | 3.20 | 3.27 | 1.19 | 0.44 | 8.11 | 2.19 | 2.57 | 12.88 |
| Plant - Rigid | 6R-30 | MFWD 150 | 27,600 | 150 | 8 | 0.125 | 2.71 | 3.20 | 1.30 | 0.53 | 7.75 | 2.39 | 3.12 | 13.27 |
| Plant - Rigid | 6R-38 | MFWD 150 | 25,000 | 150 | 8 | 0.099 | 2.13 | 2.52 | 0.93 | 0.42 | 6.02 | 1.71 | 2.46 | 10.20 |
| Plant - Rigid | 8R-30 | MFWD 170 | 32,500 | 150 | 8 | 0.094 | 2.03 | 2.72 | 1.14 | 0.43 | 6.34 | 2.11 | 2.65 | 11.11 |
| Plant - Rigid | 8R-38 | MFWD 170 | 30,500 | 150 | 8 | 0.074 | 1.60 | 2.15 | 0.85 | 0.34 | 4.95 | 1.57 | 2.10 | 8.62 |
| Plant - Rigid | 10R-30 | MFWD 190 | 36,500 | 150 | 8 | 0.075 | 1.62 | 2.43 | 1.03 | 0.37 | 5.47 | 1.90 | 2.29 | 9.67 |
| Plant - Rigid | 11R-15 | MFWD 170 | 41,300 | 150 | 8 | 0.137 | 2.96 | 3.97 | 2.13 | 0.63 | 9.71 | 3.92 | 3.88 | 17.51 |
| Plant - Rigid | 11R-20 | MFWD 170 | 35,500 | 150 | 8 | 0.103 | 2.22 | 2.97 | 1.37 | 0.47 | 7.04 | 2.52 | 2.90 | 12.47 |
| Plant - Rigid | 12R-20 | MFWD 190 | 42,000 | 150 | 8 | 0.094 | 2.03 | 3.04 | 1.48 | 0.47 | 7.03 | 2.73 | 2.87 | 12.64 |
| Plant - Rigid | 12R-30 | MFWD 190 | 53,700 | 150 | 8 | 0.062 | 1.35 | 2.02 | 1.26 | 0.31 | 4.96 | 2.33 | 1.91 | 9.21 |
| Plant - Rigid | 13R-18/20 | MFWD 225 | 44,900 | 150 | 8 | 0.086 | 1.87 | 3.32 | 1.46 | 0.59 | 7.24 | 2.69 | 3.60 | 13.55 |
| Plant - Rigid | 15R-15 | 2WD 150 | 49,900 | 150 | 8 | 0.094 | 2.03 | 2.40 | 1.76 | 0.38 | 6.58 | 3.25 | 2.22 | 12.05 |
| Plant - TwinRow | 12R-30/40 | MFWD 225 | 121,000 | 150 | 8 | 0.049 | 1.06 | 1.89 | 2.25 | 0.33 | 5.55 | 4.14 | 2.06 | 11.76 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014 (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 | | | | | | | |
| Plant - TwinRow | 8R-30/40 | MFWD 225 | 103,000 | 150 | 8 | 0.074 | 1.60 | 2.84 | 2.87 | 0.50 | 7.84 | 5.30 | 3.09 | 16.24 |
| Roller/Cultipacker | 12' | 2WD 130 | 4,130 | 300 | 12 | 0.124 | 1.55 | 2.74 | 0.12 | 0.37 | 4.79 | 0.16 | 2.15 | 7.11 |
| Roller/Cultipacker | 20' | MFWD 150 | 15,700 | 300 | 12 | 0.074 | 0.93 | 1.90 | 0.27 | 0.31 | 3.43 | 0.36 | 1.85 | 5.65 |
| Roller/Cultipacker | 30' | MFWD 170 | 17,500 | 300 | 12 | 0.049 | 0.62 | 1.43 | 0.20 | 0.23 | 2.49 | 0.27 | 1.40 | 4.16 |
| Roller/Cultipacker | 38' | MFWD 225 | 19,100 | 300 | 12 | 0.039 | 0.49 | 1.50 | 0.17 | 0.26 | 2.43 | 0.23 | 1.63 | 4.30 |
| Roller/Stubble | 20' | 2WD 50 | 12,800 | 300 | 12 | 0.074 | 0.93 | 0.63 | 0.22 | 0.04 | 1.83 | 0.29 | 0.26 | 2.39 |
| Roller/Stubble | 32' | MFWD 225 | 21,700 | 300 | 12 | 0.046 | 0.58 | 1.78 | 0.23 | 0.31 | 2.92 | 0.31 | 1.93 | 5.17 |
| Rotary Cutter | 7' | MFWD 130 | 4,250 | 185 | 10 | 0.168 | 2.10 | 3.71 | 0.58 | 0.55 | 6.96 | 0.39 | 3.24 | 10.59 |
| Rotary Cutter | 12' | 2WD 150 | 12,900 | 185 | 10 | 0.098 | 1.22 | 2.50 | 1.02 | 0.39 | 5.15 | 0.69 | 2.31 | 8.17 |
| Rotary Cutter-Flex | 15' | MFWD 150 | 19,000 | 185 | 10 | 0.078 | 0.98 | 2.00 | 1.21 | 0.33 | 4.53 | 0.82 | 1.95 | 7.30 |
| Rotary Cutter-Flex | 20' | MFWD 150 | 26,700 | 185 | 10 | 0.058 | 0.73 | 1.50 | 1.27 | 0.25 | 3.76 | 0.86 | 1.46 | 6.09 |
| Row Cond & Inc-Fold. | 26' | MFWD 190 | 23,700 | 100 | 10 | 0.063 | 1.08 | 2.04 | 0.37 | 0.31 | 3.82 | 1.53 | 1.93 | 7.28 |
| Row Cond & Inc-Fold. | 38' | MFWD 225 | 34,300 | 100 | 10 | 0.043 | 0.73 | 1.65 | 0.37 | 0.29 | 3.06 | 1.51 | 1.80 | 6.38 |
| Row Cond & Inc-Rigid | 13' | 2WD 130 | 12,600 | 100 | 10 | 0.126 | 2.16 | 2.80 | 0.39 | 0.37 | 5.74 | 1.63 | 2.19 | 9.57 |
| Row Cond & Inc-Rigid | 21' | 2WD 170 | 17,200 | 100 | 10 | 0.078 | 1.33 | 2.26 | 0.33 | 0.29 | 4.23 | 1.37 | 1.78 | 7.39 |
| Row Cond & Inc-Rigid | 26' | MFWD 190 | 17,900 | 100 | 10 | 0.026 | 0.45 | 0.85 | 0.11 | 0.13 | 1.56 | 0.48 | 0.81 | 2.86 |
| Row Cond Folding | 26' | MFWD 225 | 18,200 | 100 | 10 | 0.059 | 0.74 | 2.28 | 0.27 | 0.40 | 3.70 | 1.10 | 2.48 | 7.29 |
| Row Cond Folding | 38' | MFWD 225 | 27,100 | 100 | 10 | 0.040 | 0.51 | 1.56 | 0.27 | 0.27 | 2.62 | 1.12 | 1.69 | 5.45 |
| Row Cond Rigid | 13' | 2WD 130 | 7,120 | 100 | 10 | 0.119 | 1.49 | 2.63 | 0.21 | 0.35 | 4.69 | 0.86 | 2.06 | 7.63 |
| Row Cond Rigid | 21' | 2WD 170 | 11,700 | 100 | 10 | 0.073 | 0.92 | 2.13 | 0.21 | 0.27 | 3.55 | 0.88 | 1.67 | 6.10 |
| Row Cond Rigid | 26' | MFWD 190 | 12,400 | 100 | 10 | 0.059 | 0.74 | 1.92 | 0.18 | 0.29 | 3.15 | 0.75 | 1.82 | 5.73 |
| Row Cond./Roll-Fold. | 26' | MFWD 190 | 26,300 | 160 | 10 | 0.072 | 0.90 | 2.32 | 0.47 | 0.36 | 4.06 | 1.20 | 2.19 | 7.47 |
| Row Cond./Roll-Fold. | 30' | MFWD 190 | 38,600 | 160 | 10 | 0.062 | 0.78 | 2.01 | 0.60 | 0.31 | 3.71 | 1.53 | 1.90 | 7.15 |
| Row Cond./Roll-Fold. | 40' | MFWD 225 | 36,700 | 160 | 10 | 0.046 | 0.58 | 1.79 | 0.43 | 0.31 | 3.12 | 1.09 | 1.94 | 6.17 |
| Row Cond./Roll-Rigid | 21' | MFWD 190 | 22,800 | 160 | 10 | 0.089 | 1.11 | 2.88 | 0.50 | 0.44 | 4.95 | 1.29 | 2.72 | 8.97 |
| Row Cond./Roll-Rigid | 26' | MFWD 190 | 22,800 | 160 | 10 | 0.072 | 0.90 | 2.32 | 0.41 | 0.36 | 4.00 | 1.04 | 2.19 | 7.24 |
| Spin Spreader | 5 ton | MFWD 190 | 11,300 | 100 | 8 | 0.042 | 0.90 | 1.35 | 0.26 | 0.21 | 2.74 | 0.51 | 1.28 | 4.54 |
| Spray (ATV Ropewick) | 75" | 800 CC | 600 | 200 | 8 | 0.260 | 4.43 | 0.60 | 0.07 | 0.30 | 5.41 | 0.08 | 1.16 | 6.66 |
| Spray (ATV) | 12'/17' | 800 CC | 530 | 200 | 8 | 0.112 | 1.92 | 0.26 | 0.02 | 0.13 | 2.34 | 0.03 | 0.50 | 2.88 |
| Spray (ATV) | 20' | 800 CC | 1,350 | 200 | 8 | 0.084 | 1.44 | 0.19 | 0.05 | 0.09 | 1.78 | 0.06 | 0.37 | 2.23 |
| Spray (Band) | 27' Fold | MFWD 170 | 5,480 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.16 | 0.28 | 3.32 | 0.18 | 1.76 | 5.28 |
| Spray (Band) | 40' Fold | MFWD 170 | 7,220 | 200 | 8 | 0.042 | 0.72 | 1.22 | 0.14 | 0.19 | 2.28 | 0.16 | 1.19 | 3.64 |
| Spray (Band) | 50' Fold | MFWD 170 | 7,410 | 200 | 8 | 0.033 | 0.57 | 0.97 | 0.11 | 0.15 | 1.82 | 0.13 | 0.95 | 2.91 |
| Spray (Band) | 53' Fold | MFWD 170 | 8,340 | 200 | 8 | 0.031 | 0.54 | 0.92 | 0.12 | 0.14 | 1.73 | 0.14 | 0.90 | 2.78 |
| Spray (Band) | 60' Fold | MFWD 170 | 10,400 | 200 | 8 | 0.028 | 0.48 | 0.81 | 0.13 | 0.13 | 1.56 | 0.15 | 0.79 | 2.51 |
| Spray (Bcast/HB) | 13' Rigid | MFWD 150 | 5,800 | 200 | 8 | 0.130 | 2.21 | 3.31 | 0.35 | 0.55 | 6.44 | 0.41 | 3.23 | 10.09 |
| Spray (Bcast/HB) | 20' Rigid | MFWD 150 | 6,840 | 200 | 8 | 0.084 | 1.44 | 2.15 | 0.27 | 0.36 | 4.23 | 0.31 | 2.10 | 6.65 |
| Spray (Bcast/HB) | 27' Fold | MFWD 170 | 10,700 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.31 | 0.28 | 3.48 | 0.36 | 1.76 | 5.61 |
| Spray (Bcast/HB) | 27' Rigid | MFWD 170 | 7,870 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.23 | 0.28 | 3.39 | 0.26 | 1.76 | 5.43 |
| Spray (Bcast/HB) | 30' Fold | MFWD 170 | 15,300 | 200 | 8 | 0.056 | 0.96 | 1.62 | 0.40 | 0.26 | 3.25 | 0.47 | 1.59 | 5.31 |
| Spray (Bcast/HB) | 40' Fold | MFWD 170 | 17,400 | 200 | 8 | 0.042 | 0.72 | 1.22 | 0.34 | 0.19 | 2.48 | 0.40 | 1.19 | 4.07 |
| Spray (Bcast/HB/HD) | 27' | MFWD 170 | 12,100 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.35 | 0.28 | 3.52 | 0.41 | 1.76 | 5.70 |
| Spray (Bcast/HB/HD) | 40' | MFWD 170 | 19,100 | 200 | 8 | 0.042 | 0.72 | 1.22 | 0.37 | 0.19 | 2.51 | 0.44 | 1.19 | 4.14 |
| Spray (Broadcast) | 27' | MFWD 170 | 5,480 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.16 | 0.28 | 3.32 | 0.18 | 1.76 | 5.28 |
| Spray (Broadcast) | 40' | MFWD 170 | 7,220 | 200 | 8 | 0.042 | 0.72 | 1.22 | 0.14 | 0.19 | 2.28 | 0.16 | 1.19 | 3.64 |
| Spray (Broadcast) | 50' | MFWD 170 | 7,410 | 200 | 8 | 0.033 | 0.57 | 0.97 | 0.11 | 0.15 | 1.82 | 0.13 | 0.95 | 2.91 |
| Spray (Broadcast) | 53' | MFWD 170 | 8,340 | 200 | 8 | 0.031 | 0.54 | 0.92 | 0.12 | 0.14 | 1.73 | 0.14 | 0.90 | 2.78 |
| Spray (Broadcast) | 60' | MFWD 170 | 10,400 | 200 | 8 | 0.028 | 0.48 | 0.81 | 0.13 | 0.13 | 1.56 | 0.15 | 0.79 | 2.51 |
| Spray (Direct/Hood) | 8R-30 | MFWD 170 | 12,400 | 200 | 8 | 0.084 | 1.44 | 2.44 | 0.49 | 0.39 | 4.76 | 0.57 | 2.38 | 7.72 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 13,700 | 200 | 8 | 0.066 | 1.13 | 1.93 | 0.42 | 0.30 | 3.80 | 0.49 | 1.88 | 6.19 |
| Spray (Direct/Hood) | 12R-30 | MFWD 170 | 19,000 | 200 | 8 | 0.056 | 0.96 | 1.62 | 0.50 | 0.26 | 3.35 | 0.58 | 1.59 | 5.52 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 19,300 | 200 | 8 | 0.044 | 0.75 | 1.28 | 0.40 | 0.20 | 2.65 | 0.46 | 1.25 | 4.37 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 12,900 | 200 | 8 | 0.066 | 1.13 | 1.93 | 0.40 | 0.30 | 3.78 | 0.47 | 1.88 | 6.14 |
| Spray (Direct/Layby) | 8R-38 2x1 | MFWD 170 | 19,000 | 200 | 8 | 0.044 | 0.75 | 1.28 | 0.39 | 0.20 | 2.64 | 0.46 | 1.25 | 4.36 |
| Spray (Direct/Layby) | 12R-30 | MFWD 170 | 17,000 | 200 | 8 | 0.056 | 0.96 | 1.62 | 0.44 | 0.26 | 3.29 | 0.52 | 1.59 | 5.41 |
| Spray (Direct/Layby) | 12R-38 | MFWD 170 | 19,000 | 200 | 8 | 0.044 | 0.75 | 1.28 | 0.39 | 0.20 | 2.64 | 0.46 | 1.25 | 4.36 |
| Spray (Levee Leaper) | 50' | MFWD 225 | 13,500 | 200 | 8 | 0.033 | 0.57 | 1.29 | 0.21 | 0.23 | 2.31 | 0.24 | 1.40 | 3.96 |
| Spray (Pull Type) | 60' | MFWD 225 | 27,000 | 200 | 8 | 0.028 | 0.48 | 1.07 | 0.35 | 0.19 | 2.10 | 0.41 | 1.17 | 3.69 |
| Spray (Pull Type) | 80' | MFWD 225 | 38,000 | 200 | 8 | 0.021 | 0.36 | 0.80 | 0.37 | 0.14 | 1.68 | 0.43 | 0.87 | 3.00 |
| Spray (Pull Type) | 90' | 2WD 50 | 38,500 | 200 | 8 | 0.018 | 0.32 | 0.15 | 0.33 | 0.01 | 0.83 | 0.39 | 0.06 | 1.29 |
| Spray (Pull Type) | 100' | MFWD 225 | 35,900 | 200 | 8 | 0.016 | 0.28 | 0.64 | 0.28 | 0.11 | 1.33 | 0.33 | 0.70 | 2.36 |
| Spray (Pull Type) | 120' | MFWD 225 | 50,800 | 200 | 8 | 0.014 | 0.24 | 0.53 | 0.33 | 0.09 | 1.21 | 0.39 | 0.58 | 2.18 |
| Spray (Ropewick) | 20' | MFWD 190 | 2,600 | 200 | 8 | 0.084 | 1.44 | 2.73 | 0.10 | 0.42 | 4.69 | 0.11 | 2.57 | 7.39 |
| Spray (Spot) | 27' | MFWD 170 | 5,480 | 200 | 8 | 0.062 | 1.06 | 1.80 | 0.16 | 0.28 | 3.32 | 0.18 | 1.76 | 5.28 |
| Spray (Spot) | 40' | MFWD 170 | 7,220 | 200 | 8 | 0.042 | 0.72 | 1.22 | 0.14 | 0.19 | 2.28 | 0.16 | 1.19 | 3.64 |
| Spray (Spot) | 50' | MFWD 170 | 7,410 | 200 | 8 | 0.033 | 0.57 | 0.97 | 0.11 | 0.15 | 1.82 | 0.13 | 0.95 | 2.91 |
| Spray (Spot) | 53' | MFWD 170 | 8,430 | 200 | 8 | 0.031 | 0.54 | 0.92 | 0.12 | 0.14 | 1.73 | 0.14 | 0.90 | 2.78 |
| Spray (Spot) | 60' | MFWD 225 | 10,400 | 200 | 8 | 0.028 | 0.48 | 1.07 | 0.13 | 0.19 | 1.88 | 0.15 | 1.17 | 3.21 |
| Stalk Shredder | 14' | MFWD 150 | 13,000 | 200 | 10 | 0.117 | 1.47 | 3.00 | 1.34 | 0.50 | 6.32 | 0.78 | 2.93 | 10.03 |
| Stalk Shredder Flex | 20' | MFWD 150 | 34,700 | 200 | 10 | 0.082 | 1.03 | 2.10 | 2.50 | 0.35 | 5.99 | 1.45 | 2.05 | 9.50 |
| Stalk Shredder-Flail | 12' | MFWD 150 | 15,800 | 200 | 10 | 0.137 | 1.71 | 3.50 | 1.90 | 0.58 | 7.71 | 1.10 | 3.42 | 12.24 |
| Stalk Shredder-Flail | 15' | MFWD 150 | 19,500 | 200 | 10 | 0.110 | 1.37 | 2.80 | 1.87 | 0.47 | 6.52 | 1.09 | 2.73 | 10.35 |
| Stalk Shredder-Flail | 18' | MFWD 150 | 25,300 | 200 | 10 | 0.091 | 1.14 | 2.33 | 2.02 | 0.39 | 5.90 | 1.18 | 2.28 | 9.36 |
| Stalk Shredder-Flail | 20' | MFWD 150 | 26,300 | 200 | 10 | 0.082 | 1.03 | 2.10 | 1.89 | 0.35 | 5.38 | 1.10 | 2.05 | 8.54 |
| Stalk Shredder-Flail | 25' | MFWD 150 | 37,600 | 200 | 10 | 0.066 | 0.82 | 1.68 | 2.17 | 0.28 | 4.96 | 1.26 | 1.64 | 7.86 |
| Strip Till | 8R38/12R30 | MFWD 225 | 42,100 | 150 | 10 | 0.061 | 0.77 | 2.35 | 1.12 | 0.41 | 4.66 | 1.76 | 2.55 | 8.99 |
| Subsoiler | 3 shank | MFWD 190 | 3,550 | 100 | 15 | 0.204 | 2.55 | 6.59 | 0.24 | 1.02 | 10.41 | 0.57 | 6.22 | 17.21 |
| Subsoiler | 4 shank | MFWD 225 | 8,050 | 100 | 15 | 0.153 | 1.92 | 5.87 | 0.41 | 1.04 | 9.25 | 0.97 | 6.37 | 16.60 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2014

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | R&M Imp. | R&M P.U. | Total Direct | Fixed Imp. | Fixed P.U. | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dollars | hours | years | hr/ac | $/acre | | | | | | | |
| Subsoiler | 5 shank | MFWD 225 | 7,870 | 100 | 15 | 0.122 | 1.52 | 4.67 | 0.32 | 0.83 | 7.36 | 0.75 | 5.08 | 13.19 |
| Subsoiler low-till | 6 shank | MFWD 225 | 10,500 | 100 | 15 | 0.102 | 1.27 | 3.90 | 0.35 | 0.69 | 6.23 | 0.84 | 4.24 | 11.32 |
| Subsoiler low-till | 8 shank | MFWD 225 | 19,600 | 100 | 15 | 0.076 | 0.95 | 2.92 | 0.50 | 0.52 | 4.90 | 1.18 | 3.17 | 9.26 |

Notes:
Labor: Includes labor from Power unit plus additional labor from the implement.
Total Direct: Does not include interest on operating capital.
HB = Hooded Boom, HD = Hooded Direct

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2014

| ITEM NAME | UNIT | PRICE |
|---|---|---|
| | | dollars |
| ADJUVANTS | | |
| Crop Oil Conc.(Pet.) | pt | 3.72 |
| Crop Oil Conc.(Veg.) | pt | 4.68 |
| Drift/Defoamer | pt | 5.27 |
| Spreader Sticker | pt | 3.54 |
| Surfactant | pt | 3.68 |
| CLEANING | | |
| Cleaning Peanuts | ton | 18.00 |
| CROP CONSULTANT | | |
| Crop Consultant | acre | 7.00 |
| Rice Consultant | acre | 7.00 |
| CUSTOM FERTILIZE | | |
| App Fert by Air | cwt | 7.00 |
| App Fert by Air(Min) | appl | 7.00 |
| Custom Apply Fert | acre | 7.50 |
| CUSTOM LIME | | |
| Lime (Spread) | ton | 48.00 |
| CUSTOM PLANT | | |
| Custom Plant Air | cwt | 7.00 |
| Custom Plant Ground | acre | 13.00 |
| CUSTOM SPRAY | | |
| App by Air ( 2 gal) | appl | 4.00 |
| App by Air ( 3 gal) | appl | 5.00 |
| App by Air ( 5 gal) | appl | 6.00 |
| App by Air (10 gal) | appl | 7.75 |
| Custom Spray Ground | acre | 7.00 |
| Custom Spray Self Pr | acre | 6.25 |
| Custom Spray Tractor | acre | 7.50 |
| DRYING | | |
| Dry Corn | bu | 0.19 |
| Dry Grain Sorghum | cwt | 0.25 |
| Dry Peanuts | ton | 24.00 |
| Dry Rice | bu | 0.40 |
| ERADICATION FEE | | |
| Eradication | acre | 1.00 |
| FERTILIZERS | | |
| Amm Sulfate (21% N) | cwt | 17.75 |
| Amm Sulfate dry/mix | lb | 0.20 |
| Boron 15G | lb | 0.75 |
| Boron Plus | pt | 4.25 |
| DAP | cwt | 25.75 |
| Fert 10-34-0 | cwt | 28.25 |
| Fert 11-37-0 | cwt | 33.50 |
| Fert 30-0-0-5 | cwt | 18.00 |
| Fert 41-0-0-4 | cwt | 20.50 |
| Lime | ton | 38.00 |
| Phosphorus(46% P2O5) | cwt | 24.00 |
| Potash (60% K2O) | cwt | 23.75 |
| Sulfur 90% | lb | 0.30 |
| Sulfur Plus | pt | 2.60 |
| SuperMax AMS | pt | 2.70 |
| UAN (32% N) | cwt | 19.50 |
| UAN + Sulfur (28%) | cwt | 19.50 |
| Urea, Solid (46% N) | cwt | 22.60 |
| Zinc Plus | pt | 3.00 |
| Zinc Sulfate 31% | lb | 0.50 |
| FUNGICIDES | | |
| Abound | pt | 28.50 |
| Allegiance Flowable | pt | 58.75 |
| Apron Maxx RTA | oz | 0.74 |
| Apron Maxx RTA+Moly | pt | 13.63 |
| Apron XL LS | oz | 7.93 |
| Artisan | oz | 0.96 |
| Bravo Ultrex | lb | 5.80 |
| Bravo Weather Stick | pt | 4.29 |
| Captan 50 WP | lb | 6.00 |
| Cotton Seed Trt. | acre | 20.00 |
| CruiserMaxx | oz | 4.07 |
| Dithane F-45 | qt | 8.63 |
| Dithane Rainshield | lb | 2.84 |
| Enable 2F | oz | 1.95 |
| Folicur 3.6 | oz | 1.08 |
| Headline EC | oz | 2.81 |
| Headline SC | oz | 2.99 |
| Manzate 75 DF | lb | 5.25 |
| Moncut 70 DF | lb | 24.85 |
| Prevail | lb | 28.25 |
| Provost | oz | 2.01 |
| Quadris | oz | 2.53 |
| Quilt | pt | 19.55 |
| Quilt XCEL | pt | 26.16 |
| Ridomil Gold | oz | 6.22 |
| Ridomil Gold PC GR | lb | 2.42 |
| Rovral 4F | pt | 16.88 |
| Stiletto | oz | 0.56 |
| Stratego | pt | 22.50 |
| Stratego YLD | oz | 4.46 |
| Terrachlor 2EC | pt | 1.87 |
| Tilt 3.6 EC | oz | 0.90 |
| Tilt/ Bravo SE | oz | 0.37 |
| Uniform | oz | 4.95 |
| Vitavax RTU-Thiram | oz | 0.35 |
| GINNING | | |
| Gin & Haul | lb | 0.11 |
| GROWTH REGULATORS | | |
| Early Harvest PGR | oz | 1.55 |
| Mepex | oz | 0.08 |
| Mepex Gin Out | oz | 0.14 |
| Mepichlor 4.2% | oz | 0.08 |
| Mepiquat | oz | 0.10 |
| Mepiquat Chloride | oz | o.08 |
| Mepiquat Extra | oz | 0.08 |
| Pentia | pt | 6.09 |
| Pix Plus | oz | 0.15 |
| Stance | oz | 1.18 |
| SuperBoll | pt | 3.00 |
| HARVEST AIDS | | |
| Adios | oz | 1.29 |
| Aim 2EC | oz | 6.25 |
| Ammonium Sulfate | lb | 0.20 |
| CottonQuik | pt | 4.25 |
| Def 6 | pt | 8.17 |
| Def/Folex | pt | 8.63 |
| Defol 3 | gal | 3.45 |
| Defol 5 | gal | 5.52 |
| Defol 750 | pt | 1.26 |
| Dropp SC | oz | 1.46 |
| ET | pt | 44.69 |
| Ethephon 6E | pt | 3.00 |
| Finish 6 | pt | 8.44 |
| First Pick | pt | 3.12 |
| Folex 6EC | pt | 9.08 |
| Freefall SC | oz | 1.41 |
| Ginstar EC | pt | 26.86 |
| Gramoxone SL | oz | 0.22 |
| Paraquat | oz | 0.22 |
| Prep | pt | 3.25 |
| Sharpen | oz | 5.16 |
| Shed-a-leaf | gal | 3.60 |
| Sodium Chlorate 3L | gal | 3.45 |
| Sodium Chlorate 5L | gal | 5.52 |
| TDZ SC | oz | 1.41 |
| Thidiazuron 4lb | oz | 1.41 |
| Tribufos 6lb | pt | 8.63 |
| HAULING | | |
| Haul Corn | bu | 0.23 |
| Haul Peanuts | ton | 14.50 |
| Haul Rice | bu | 0.35 |
| Haul Sorghum | bu | 0.25 |
| Haul Soybeans | bu | 0.27 |
| Haul Wheat | bu | 0.26 |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2014(continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|---|---|---|---|---|---|
| | | dollars | | | dollars |
| HERBICIDES | | | Grandstand R | qt | 28.38 |
| 2,4-D Amine 4 | pt | 2.94 | Guardsman Max | pt | 6.71 |
| 2,4-D Weedar 64 | pt | 2.28 | Halex GT | pt | 5.87 |
| AAtrex 4L | pt | 2.22 | Halomax | oz | 18.50 |
| AAtrex NINE-O | lb | 4.22 | Harmony Extra SG | oz | 11.80 |
| Accent Q | oz | 32.47 | Harmony Extra XP | oz | 14.40 |
| Aim 2EC | oz | 6.25 | Harness XTRA | pt | 6.28 |
| Assure II | oz | 0.70 | Hoelon 3EC | pt | 11.03 |
| Atrazine 4L | pt | 1.97 | Impact | oz | 16.83 |
| Atrazine 90DF | lb | 4.64 | Karmex XP | lb | 6.50 |
| Axial XL | oz | 0.98 | Lariat | qt | 7.46 |
| Axiom 68DF | oz | 1.65 | Laudis | oz | 4.88 |
| Banvel | pt | 7.69 | Layby Pro | qt | 14.27 |
| Basagran | pt | 11.88 | Lexar | pt | 6.54 |
| Basis | oz | 17.95 | Liberty 280 | oz | 0.63 |
| Beyond | oz | 3.76 | Linex 4L | pt | 9.99 |
| Bicep II Magnum | qt | 11.22 | Londax 60DF | oz | 16.25 |
| Bicep Lite Magnum | pt | 7.12 | Lorox 50DF | lb | 18.70 |
| Blazer Ultra | pt | 9.37 | Makaze | pt | 1.88 |
| Bolero 8EC | pt | 7.25 | MSMA 6.6 | pt | 3.16 |
| Boundary 6.5 EC | 9.37 | 9.37 | MSMA6 Plus | pt | 2.63 |
| Buccaneer Plus | pt | 2.19 | Newpath 2SL | oz | 3.24 |
| Bullet | pt | 3.73 | Osprey | oz | 3.08 |
| Butyrac 175 (2,4-D | pt | 3.24 | Outlook | pt | 14.34 |
| Butyrac 200 (2,4-DB) | pt | 3.92 | Paraquat | oz | 0.22 |
| Cadre | oz | 3.52 | Parazone 3SL | oz | 0.26 |
| Callisto 4SC | oz | 5.28 | Parrlay | pt | 8.13 |
| Canopy 75% | oz | 2.50 | Peak Accu Pak | oz | 14.46 |
| Canopy EX | oz | 7.38 | Permit 75 DF | oz | 19.25 |
| Caparol 4L | pt | 2.68 | Poast 1.53 | pt | 11.26 |
| Capreno | oz | 5.71 | Poast Plus | pt | 8.41 |
| Celebrity Plus | lb | 84.50 | Prefix | pt | 6.13 |
| Clarity | pt | 10.19 | Propimax EC | pt | 18.13 |
| Classic | oz | 15.28 | Prowl 3.3 EC | pt | 5.51 |
| Clearpath | lb | 49.11 | Prowl H20 | pt | 5.04 |
| Clincher SF | oz | 2.15 | Pursuit 2S | oz | 2.98 |
| Cobra 2EC | oz | 1.45 | Python WDG | oz | 12.55 |
| Command 3ME | pt | 17.11 | Quinstar | lb | 44.50 |
| Cornerstone Plus | pt | 1.56 | Raptor | oz | 4.05 |
| Cotoran 4L | pt | 5.80 | Reflex 2LC | pt | 7.51 |
| Cotton Pro | pt | 3.44 | Regiment 80WP | oz | 38.57 |
| Credit Extra | pt | 1.80 | Remedy Ultra | pt | 8.22 |
| Direx 4L | pt | 3.74 | Resolve SG | oz | 7.95 |
| Diuron 4L | pt | 3.49 | Resource .86EC | pt | 27.09 |
| Diuron 80 DF | lb | 4.88 | Ricebeaux | pt | 5.37 |
| Diuron 80% | lb | 4.88 | RicePro | pt | 4.70 |
| Dual II Magnum | pt | 13.57 | Riceshot | pt | 3.62 |
| Dual Magnum | pt | 12.62 | Ricestar HT | pt | 21.20 |
| Duet | pt | 4.99 | Rifel | pt | 8.24 |
| Envoke | oz | 88.37 | Roundup Power Max | oz | 0.19 |
| Evik DF 80W | lb | 10.60 | Roundup PowerMax | pt | 3.00 |
| Exceed | oz | 10.71 | Roundup WeatherMax | oz | 0.25 |
| Expert | pt | 4.16 | Roundup WeatherMax | pt | 4.01 |
| Facet L | pt | 12.72 | Salvo | pt | 4.36 |
| Finesse | oz | 14.16 | Scepter 70 DG | oz | 3.99 |
| First Rate | oz | 37.80 | Select Max | pt | 11.94 |
| First Shot | oz | 7.68 | Sequence | pt | 5.07 |
| Flexstar | pt | 11.37 | Simazine 4L | pt | 2.57 |
| Frontier 6.0 | oz | 0.63 | Stalwart | pt | 6.56 |
| Fultime | pt | 5.21 | Stam 80 EDF | lb | 7.95 |
| Fusilade DX | oz | 1.15 | Stam M4 | qt | 7.74 |
| Fusion | pt | 27.38 | Staple LX | oz | 8.55 |
| Glyfos | pt | 1.66 | Steadfast | oz | 17.20 |
| Glyfos Xtra | pt | 1.44 | Sterling Blue | pt | 9.81 |
| Glyphosate 3lbs a.e | pt | 2.00 | Storm | pt | 11.09 |
| Glyphosate 3lbs a.e | oz | 0.13 | Strada WG | oz | 6.30 |
| Glystar Plus | pt | 1.56 | Strongarm | oz | 51.20 |
| Goal 2XL | pt | 10.00 | Superwham | qt | 8.31 |
| Gramonone SL 2.0 | oz | 0.22 | | | |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2014

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|---|---|---|---|---|---|
| | | dollars | | | dollars |
| Suprend | lb | 12.74 | | | |
| Surpass EC | qt | 25.00 | Malathion 5E | pt | 4.76 |
| Synchrony XP | oz | 10.98 | Malathion 8E | pt | 5.50 |
| Touchdown Total | qt | 5.93 | Methyl Parathion 4 | pt | 5.79 |
| Treflan 4D | pt | 3.34 | Monitor 4 | pt | 16.33 |
| Tricor DF | lb | 14.75 | Mustang Max | oz | 1.60 |
| Trifluralin 4EC | pt | 3.28 | Oberon 4 SC | pt | 76.19 |
| Valor SX | oz | 5.49 | Orthene 90S | lb | 6.50 |
| Valor XLT | oz | 4.06 | Penncap-M | pt | 6.71 |
| Verdict | oz | 1.51 | Phorate | lb | 3.00 |
| Zidua | oz | 7.27 | Pounce 25WP | lb | 12.77 |
| Zorial Rapid 80DF | lb | 13.99 | Prolex | oz | 2.62 |
| INOCULANT | | | Respect .8EC | pt | 33.79 |
| Nitrastick | lbseed | 0.02 | Sevin 4F | pt | 6.01 |
| Nitro Fix | lbseed | 0.03 | Sevin 80S | lb | 7.35 |
| Optimize LIFT | oz | 0.54 | Sevin XLR Plus | qt | 12.39 |
| INSECT SCOUTING | | | Sniper | oz | 1.05 |
| Insect Scouting | acre | 7.00 | Steward | pt | 29.30 |
| INSECTICIDES | | | Temik 15G Grit | lb | 4.00 |
| Acephate 90% | lb | 6.68 | Temik 15G Gypsum | lb | 4.00 |
| Acephate 90SP | lb | 6.85 | Thimet 20-G Lock N L | lb | 3.50 |
| Acramite-4SC | oz | 1.91 | Thionex 3 EC | pt | 4.46 |
| Asana .66 XL | oz | 0.72 | Thionex 50W | lb | 10.51 |
| Aztec 2.1% G | lb | 3.64 | Tombstone Helios | pt | 43.75 |
| Baythroid XL | oz | 2.15 | Tracer 4SC | oz | 8.17 |
| Bidrin 8WM | oz | 0.98 | Trimax Pro | oz | 1.85 |
| Bidrin XP | oz | 0.78 | Tundra | oz | 0.78 |
| Bifenthrin | oz | 0.78 | Vydate C-LV | oz | 0.73 |
| Bifenture 2EC | pt | 12.50 | Zeal Miticid I | oz | 17.83 |
| Brigade EC | pt | 14.01 | Zephyr | oz | 0.78 |
| Brigade WSB | lb | 22.22 | IRRIGATION SUPPLIES | | |
| Capture 2EC | oz | 1.76 | Roll-Out Pipe | ft | 0.26 |
| Capture LFR | oz | 2.15 | SEED/PLANTS | | |
| Carbaryl 4L | pt | 5.27 | Corn Seed BtRR | thous | 3.21 |
| Carbine 50WG | oz | 5.25 | Corn Seed Conv. | thous | 2.53 |
| Centric 40WG | oz | 4.70 | Corn Seed RR2 | thous | 3.05 |
| Comite ll | pt | 8.21 | Corn Seed VT3 | thous | 3.48 |
| Confirm 2F | oz | 2.06 | Corn Seed VT3Pro | thous | 3.45 |
| Counter 15G | lb | 2.55 | Cotton Seed B2RF | thous | 0.72 |
| Cruiser Maxx Rice | lbseed | 0.129 | Cotton Seed LLB2 | thous | 1.17 |
| Curacron 8E | pt | 10.78 | Peanut Seed | lb | 0.74 |
| Cypermethrin | oz | 0.55 | Rice Clearfield | lb | 0.99 |
| Denim 0.16 EC | pt | 32.63 | Rice Clearfield Hyb | lb | 6.12 |
| Diamond .83EC | pt | 14.83 | Rice Conv. Hybrid | lb | 5.80 |
| Dimethoate 4E | pt | 6.24 | Rice Seed (Levees) | lb | 0.44 |
| Dimilin 2L | oz | 2.02 | Rice Seed CF(Levees) | lb | 0.99 |
| Dipel DF | lb | 12.25 | Rice Seed CFH(Levee) | lb | 6.12 |
| Dipel ES | pt | 4.63 | Rice Seed Conv. | lb | 0.44 |
| Discipline 2 EC | oz | 0.78 | Sorghum Concept | lb | 2.11 |
| Endigo ZC | pt | 26.88 | Soybean Seed LL | lb | 1.03 |
| Fanfare 2EC | oz | 0.78 | Soybean Seed RR2 | lb | 1.11 |
| Force 3G | lb | 6.25 | Wheat Seed Private | lb | 0.37 |
| Furadan 4F | pt | 9.81 | SURVEY & MARK LEVEES | | |
| Furadan 4FLFR | pt | 9.81 | Survey & Mark Levees | acre | 4.50 |
| Gaucho 600 | oz | 5.86 | Survey & Mark Levees | acre | 4.50 |
| Hero | pt | 22.50 | TECHNOLOGY FEE | | |
| Holster | pt | 14.38 | B2 Cot Tech Fee | thous | 0.76 |
| Imidan 70 WSB | oz | 0.74 | B2 Cot Tech Fee | cap/ac | 31.91 |
| Incidental Pest Trt | acre | 12.00 | B2RF Cot Tech Fee | thous | 1.49 |
| Intrepid 2F | oz | 1.84 | B2RF Cot Tech Fee | cap/ac | 62.69 |
| Intruder 70WSP | oz | 9.65 | LLB2 Cot Tech Fee | thous | 0.76 |
| Karate Z | oz | 2.73 | RF Cot Tech Fee | thous | 1.04 |
| Kelthane MF 4EC | pt | 5.03 | RF Cot Tech Fee | cap/ac | 43.66 |
| Lannate LV | pt | 9.72 | WRF Cot Tech Fee | thous | 1.45 |
| Lannate SP | oz | 1.68 | WS Cotton Tech Fee | cap/ac | 24.00 |
| Larvin 3.2 | oz | 0.60 | | | |
| Leverage 2.7 | oz | 1.61 | | | |
| Lorsban 15G | lb | 2.15 | | | |
| Lorsban 4E | pt | 5.63 | | | |

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2014

| ITEM NAME | UNIT | PRICE |
|---|---|---|
| | | dollars |
| FUEL TYPES | | |
| Diesel Fuel | gal | 3.30 |
| Gasoline | gal | 3.30 |
| LP Gas | gal | 1.59 |
| INTEREST RATES | | |
| Short-term | % | 3.75 |
| Intermediate-term | % | 4.50 |

Appendix Table 6. Labor types, wage rates and unallocated labor multipliers for crop enterprises, Mississippi, 2014

| Item name | Unit | Wage Rate |
|---|---|---|
| OPERATOR LABOR | hour | 12.50 |
| 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, 2014

| | Unit | Futures Contract Month | Futures Contract Price[a] | Basis[b] | Forward Contract Price[c] | Loan Rate[d] | Budget Price[e] |
|---|---|---|---|---|---|---|---|
| Corn | bu | Dec '14 | 4.80 | -0.2760 | 4.53 | 2.09 | 4.53 |
| Cotton Lint | lb | Dec '14 | 0.800 | -0.0147 | 0.785 | .520 | 0.79 |
| Cottonseed | lb | | | | | | 0.107[f] |
| Grain Sorghum | bu | | | | 4.30 | 3.60 | 4.30 |
| Peanuts | ton | | | | 550.00 | 355.00 | 550.00 |
| Soybeans | bu | Nov '14 | 11.68 | -0.2710 | 11.41 | 5.21 | 11.41 |
| Rice | bu | Sep '14 | 6.62 | -0.7510 | 5.86 | 3.02 | 5.86 |
| Wheat | bu | Jul '14 | 6.93 | -0.6441 | 6.29 | 2.69 | 6.29 |

[a] Average of the futures contract month closings in October.

[b] The basis is computed by subtracting the 2001-2013 average near futures contract month closings in October from the daily spot cash prices reported in October. Sources: Agricultural Marketing Service, Market News, USDA.

[c] The forward contract price for cotton, soybeans, corn, wheat, and rice is the futures contract price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

[d] Average Mississippi loan rate for the 2013 crop year for soybeans, corn, grain sorghum, and wheat. 2013 national average loan rate for cotton. 2013 Mississippi stored loan rate for long grain rice. 2013 national average loan rate for peanuts.

[e] Price used in the 2014 MAFES Planning Budgets.

[f] Cottonseed price is the marketing year average price averaged over the years 2009-2013, Agricultural Prices Summary, USDA.

Appendix Table 8. Estimated costs for field operations, per acre
Contour levee rice flood irrigation system
80-acre system, 33 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DIRECT COST | | | | | | | | |
| | | dollars | | | | | | | | |
| Set Up Engine | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.45 | | 0.01 | 0.46 | | 0.46 |
| Build Outside Levee | | | | | | | | | | |
| Levee Pull (1m/80a) | 8 blade | | 0.46 | 0.09 | 0.20 | | 0.01 | 0.76 | 0.57 | 1.33 |
| Survey & Mark Levees | acre | 4.50 | | | | | 0.08 | 4.58 | | 4.58 |
| Build Inside Levees | | | | | | | | | | |
| Levee Pull (1m/80a) | 8 blade | | 1.24 | 0.26 | 0.54 | | 0.04 | 2.08 | 1.52 | 3.60 |
| Butt Levees | | | | | | | | | | |
| Blade-Box | 6'-7' | | 0.44 | 0.07 | 0.25 | | 0.01 | 0.77 | 0.36 | 1.13 |
| IRRIGATE LABOR | hour | | | | 0.68 | | 0.01 | 0.69 | | 0.69 |
| Install Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 2.72 | | 0.05 | 2.77 | | 2.77 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 6.80 | | 0.13 | 6.93 | | 6.93 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 6.80 | | 0.11 | 6.91 | | 6.91 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 6.80 | | 0.09 | 6.89 | | 6.89 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 6.80 | | 0.06 | 6.86 | | 6.86 |
| Remove Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| Tear Down Levees | | | | | | | | | | |
| Levee Splitter (1/80 | 32" | | 0.85 | 0.16 | 0.42 | | 0.01 | 1.44 | 0.90 | 2.34 |
| Tear Down Levees | | | | | | | | | | |
| Levee Splitter (1/80 | 32" | | 0.32 | 0.06 | 0.16 | | | 0.54 | 0.34 | 0.88 |
| Land Forming ($75) | each | | | | | | | | 6.58 | 6.58 |
| Levee Gates | each | | | | | | | | 0.52 | 0.52 |
| Well & Pump, Flood | each | | | 4.88 | | | 0.08 | 4.96 | 13.70 | 18.66 |
| Engine, Rice CL, 75 | each | | | | | | | | 14.51 | 14.51 |
| May Irrigation | ac-in | | 16.13 | 1.29 | | | 0.33 | 17.75 | | 17.75 |
| June Irrigation | ac-in | | 24.19 | 1.93 | | | 0.41 | 26.53 | | 26.53 |
| July Irrigation | ac-in | | 24.19 | 1.93 | | | 0.33 | 26.45 | | 26.45 |
| August Irrigation | ac-in | | 24.19 | 1.93 | | | 0.24 | 26.36 | | 26.36 |
| TOTALS | | 4.50 | 92.01 | 12.60 | 33.53 | 0.00 | 2.01 | 144.65 | 39.00 | 183.65 |

Note: Cost of production estimates are based on 2013 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
Straight levee rice flood irrigation system
80-acre system, 27 ac-in., Delta Area, Mississippi, 2014

| 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 | | | | 0.45 | | 0.01 | 0.46 | | 0.46 |
| Survey & Mark Levees | acre | 2.25 | | | | | 0.04 | 2.29 | | 2.29 |
| Build Inside Levees | | | | | | | | | | |
| Levee Pull (1m/80a) | 8 blade | | 0.93 | 0.20 | 0.40 | | 0.03 | 1.56 | 1.14 | 2.70 |
| Butt Levees | | | | | | | | | | |
| Blade-Box | 6'-7' | | 0.44 | 0.07 | 0.25 | | 0.01 | 0.77 | 0.36 | 1.13 |
| IRRIGATE LABOR | hour | | | | 0.68 | | 0.01 | 0.69 | | 0.69 |
| Install Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.36 | | 0.03 | 1.39 | | 1.39 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 4.53 | | 0.08 | 4.61 | | 4.61 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 4.53 | | 0.07 | 4.60 | | 4.60 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 4.53 | | 0.06 | 4.59 | | 4.59 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 4.53 | | 0.04 | 4.57 | | 4.57 |
| Remove Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.91 | | 0.01 | 0.92 | | 0.92 |
| Tear Down Levees | | | | | | | | | | |
| Levee Splitter (1/80 | 32" | | 0.64 | 0.12 | 0.31 | | 0.01 | 1.08 | 0.67 | 1.75 |
| Land Forming ($390) | each | | | | | | | | 26.30 | 26.30 |
| Levee Gates | each | | | | | | | | 0.52 | 0.52 |
| Well & Pump, Flood | each | | | 4.88 | | | 0.08 | 4.96 | 13.70 | 18.66 |
| Engine, Rice SL, 75 | each | | | | | | | | 14.51 | 14.51 |
| May Irrigation | ac-in | | 16.13 | 1.57 | | | 0.33 | 18.03 | | 18.03 |
| June Irrigation | ac-in | | 18.82 | 1.84 | | | 0.32 | 20.98 | | 20.98 |
| July Irrigation | ac-in | | 18.82 | 1.84 | | | 0.26 | 20.92 | | 20.92 |
| August Irrigation | ac-in | | 18.82 | 1.84 | | | 0.19 | 20.85 | | 20.85 |
| TOTALS | | 2.25 | 74.60 | 12.36 | 22.48 | 0.00 | 1.58 | 113.27 | 57.20 | 170.47 |

Note: Cost of production estimates are based on 2013 input prices.

Appendix Table 10. Estimated costs for field operations, per acre
Straight levee rice multi inlet flood irrigation system
80-acre system, 23 ac-in., Delta Area, Mississippi, 2014

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | OP INPUT | DIRECT COST FUEL | R&M | LABOR | LEASE | INTER | TOTAL | FIXED COST | TOTAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| | | dollars | | | | | | | | |
| Set Up Engine | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.45 | | 0.01 | 0.46 | | 0.46 |
| Survey & Mark Levees | acre | 2.25 | | | | | 0.04 | 2.29 | | 2.29 |
| Build Inside Levees | | | | | | | | | | |
| Levee Pull (1m/80a) | 8 blade | | 0.93 | 0.20 | 0.40 | | 0.03 | 1.56 | 1.14 | 2.70 |
| Butt Levees | | | | | | | | | | |
| Blade-Box | 6'-7' | | 0.44 | 0.07 | 0.25 | | 0.01 | 0.77 | 0.36 | 1.13 |
| IRRIGATE LABOR | hour | | | | 0.68 | | 0.01 | 0.69 | | 0.69 |
| Ditcher (1m/160a) | | | 0.21 | 0.05 | 0.12 | | 0.01 | 0.39 | 0.18 | 0.57 |
| Roll-Out Pipe | ft | 8.58 | | | | | 0.16 | 8.74 | | 8.74 |
| Lay Roll-out Pipe | | | | | | | | | | |
| Pipe Spool 160ac | 1/4m roll | | 0.28 | 0.06 | 0.39 | | 0.01 | 0.74 | 0.47 | 1.21 |
| Install Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.36 | | 0.03 | 1.39 | | 1.39 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.81 | | 0.03 | 1.84 | | 1.84 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.81 | | 0.03 | 1.84 | | 1.84 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.81 | | 0.02 | 1.83 | | 1.83 |
| Remove Gates | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.45 | | | 0.45 | | 0.45 |
| Tear Down Levees | | | | | | | | | | |
| Levee Splitter (1/80 | 32" | | 0.64 | 0.12 | 0.31 | | 0.01 | 1.08 | 0.67 | 1.75 |
| Pick Up Pipe | | | | | | | | | | |
| Pipe Spool 160ac | 1/4m roll | | 0.14 | 0.03 | 0.19 | | | 0.36 | 0.24 | 0.60 |
| Land Forming ($390) | each | | | | | | | | 26.30 | 26.30 |
| Levee Gates | each | | | | | | | | 0.26 | 0.26 |
| Well & Pump, Flood | each | | | 4.88 | | | 0.08 | 4.96 | 13.70 | 18.66 |
| Engine, Mult In Rice | each | | | | | | | | 14.51 | 14.51 |
| May Irrigation | ac-in | | 13.44 | 1.47 | | | 0.28 | 15.19 | | 15.19 |
| June Irrigation | ac-in | | 16.13 | 1.77 | | | 0.28 | 18.18 | | 18.18 |
| July Irrigation | ac-in | | 16.13 | 1.77 | | | 0.22 | 18.12 | | 18.12 |
| August Irrigation | ac-in | | 16.13 | 1.77 | | | 0.17 | 18.07 | | 18.07 |
| TOTALS | | 10.83 | 64.47 | 12.19 | 11.84 | 0.00 | 1.45 | 100.78 | 57.83 | 158.61 |

Note: Cost of production estimates are based on 2013 input prices.

Appendix Table 11. Estimated costs for field operations, per acre
Straight levee rice - zero grade flood irrigation
80-acre system, 19 ac-in., Delta Area, Mississippi, 2014

| 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 | | | | 0.45 | | 0.01 | 0.46 | | 0.46 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 2.27 | | 0.04 | 2.31 | | 2.31 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 2.27 | | 0.04 | 2.31 | | 2.31 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 2.27 | | 0.03 | 2.30 | | 2.30 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 2.27 | | 0.02 | 2.29 | | 2.29 |
| Land Forming ($390) | each | | | | | | | | 26.30 | 26.30 |
| Well & Pump, Flood | each | | | 4.88 | | | 0.08 | 4.96 | 13.70 | 18.66 |
| Engine, Rice SL, 75 | each | | | | | | | | 14.51 | 14.51 |
| May Irrigation | ac-in | | 10.75 | 1.05 | | | 0.22 | 12.02 | | 12.02 |
| June Irrigation | ac-in | | 13.44 | 1.31 | | | 0.23 | 14.98 | | 14.98 |
| July Irrigation | ac-in | | 13.44 | 1.31 | | | 0.18 | 14.93 | | 14.93 |
| August Irrigation | ac-in | | 13.44 | 1.31 | | | 0.14 | 14.89 | | 14.89 |
| TOTALS | | 0.00 | 51.07 | 9.86 | 9.53 | 0.00 | 0.99 | 71.45 | 54.51 | 125.96 |

Note: Cost of production estimates are based on 2013 input prices.

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