DELTA
2024
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2023-05

November 2023

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 2024 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses**."

Acknowledgments

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

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

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

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

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Table of Contents

Page

Foreword i

Acknowledgments i

2024 Budget Committees ii

2024 Planning Budgets 1

Budgets for Agricultural Enterprises 1

Methods and Procedures 1
- Production Practices 1
- Machinery 1
- Estimates of Direct Costs 2
- Estimates of Fixed Costs 2
- Estimates of Returns 3
- Irrigation Costs 3
- Net Retruns 3

Enterprise Budgets

Table

1 Cotton, 12R-38”, solid, conservation tillage
B3XF variety, Delta Area 6
2 Cotton, 12R-38”, solid, conversation tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area 12
3 Cotton, 12R-38”, solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area 18
4 Cotton, 12R-38”, solid, no-till
B3XF variety, Delta Area 24
5 Cotton, 12R-38”, 2x1 full-skip, (8 rows planted)
Cons. till., B3XF variety, Delta Area 30
6 Cotton, 12R-38”, solid, conservation tillage
W3FE variety, Delta Area 36
7 Cotton, 12R-38”, solid, conversation tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area 42
8 Cotton, 12R-38”, solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area 48
9 Cotton, 12R-38”, solid, no-till
W3FE variety, Delta Area 54
10 Cotton, 12R-38”, 2x1 full-skip, (8 rows planted)
Cons. till., W3FE variety, Delta Area 60
11 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Non-irrigated, Delta Area 66
12 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Furrow irrigated, 9 ac-in., Delta Area 72
13 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Flood irrigated, 13.5 ac-in., Delta Area 78
14 Soybeans, double crop after wheat, Enlist E3, 16R 30”
1/2 mile pivot irrigated, 7.5 ac-in., All Areas 84
15 Soybeans, double crop after wheat, Enlist E3, 16R 30”
Non-irrigated, All Areas 90
16 Soybeans full season, RR2X, stale seedbed, 16R 30”
Non-irrigated, Delta Area 96
17 Soybeans, full-season, RR2X, stale seedbed, 16R 30”
Furrow irrigated, 9 ac-in., Delta Area 102

18 Soybeans, full-season, RR2X, stale seedbed, 16R 30”
Flood irrigated, 13.5 ac-in., Delta Area 108
19 Soybeans, double crop after wheat, RR2X, 16R 30”
1/2 mile pivot irrigated, 7.5 ac-in., All Areas 114
20 Soybeans, double crop after wheat, RR2X, 16R 30”
Non-irrigated, All Areas 120
21 Corn, stale seedbed, BtRR, 12-row 38”, 220 bu yield goal
Furrow irrigated, 13 ac-in., Delta Area 126
22 Corn, stale seedbed, BtRR, 12-row 38”, 170 bu yield goal
Non-irrigated, Delta Area 132
23 Corn, stale seedbed, BtRR, 16-row 30”, 220 bu yield goal
Pivot irrigated, 7.5 ac-in., Delta Area 138
24 Corn, conventional tillage, RR2, 12-row 38”
220 bu yield goal, furrow irrigated, 13 ac-in., Delta Area 144
25 Corn, conventional tillage, RR2, 12-row 38”
170 bu yield goal, non-irrigated, Delta Area 150
26 Corn, conventional tillage, RR2, 12-row 38”
220 bu yield goal, pivot irrigated, 7.5 ac-in ,Delta Area 156
27 Grain sorghum, 12-row 30”, 100 bu yield goal
All Areas 162
28 Wheat followed by soybeans, 70 bu yield goal
All Areas 168
29 Contour levee rice
Flood irrigated, 33 ac-in, ... 174
30 Straight levee rice
Flood irrigated, 27 ac-in, ... 180
31 Straight levee rice
Multi inlet flood irrigated, 23 ac-in, ... 186
32 Straight levee rice – zero grade
Flood irrigated, 19 ac-in, ... 192
33 Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in, ... 198
34 Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in, ... 204
35 Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in, ... 210
36 Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in, ... 216
37 Clearfield contour levee rice
Flood irrigated, 33 ac-in, ... 222
38 Clearfield straight levee rice
Flood irrigated, 27 ac-in, ... 228
39 Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in, ... 234
40 Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in, ... 240
41 Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in, ... 246
42 Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in, ... 252
43 Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in, ... 258
44 Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in, ... 264
45 Provisia contour levee rice
Flood irrigated, 33 ac-in, ... 270
46 Provisia straight levee rice
Flood irrigated, 27 ac-in, ... 276
47 Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in, ... 282
48 Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in, ... 288

49 Peanut- runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas 294
50 Peanuts-runner, 2.2 ton (4400 lb) yield, 8 row-38" twin
All Areas 300
51 Peanut- runner, 2.2 ton (4400 lb) yield, 12 row-38 inch
All Areas 306
52 Peanut- runner, 2.5 ton (5000 lb) yield, 12 row-38 inch
Furrow irrigated, All Areas 312

Appendix
Table

1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use,
and direct and fixed costs per hour 320
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use,
performance rate, and direct and fixed costs per acre 321
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate,
and direct and fixed costs per acre 322
4 Operating inputs: estimated prices 327
5 Estimated fuel prices and interest rates 330
6 Labor types, wage rates and unallocated labor multipliers for crop enterprises 330
7 Futures contract prices, basis levels, forward contract prices,
and loan rates used in row crop budgets 331
8 Cotton irrigated with roll-out pipe
160-acre roll-out pipe system, 10.5 ac-in., Delta Area 332
9 Cotton irrigated with center pivot
135-acre ¼-mile pivot system, 7.5 ac-in., Delta Area 333
10 Full-season soybeans irrigated with roll-out pipe,
160-acre system, 9 ac-in., Delta Area 334
11 Irrigation with a contour flood system
80-acre system, 13.5 ac-in., Delta Area 335
12 Irrigation with a ½-mile center pivot system
530-acre system, 7.5 ac-in., Delta Area 336
13 Corn irrigated with roll-out pipe
160-acre system, 13 ac-in., Delta Area 337
14 Contour levee rice flood irrigation system,
80-acre system, 33 ac-in., Delta Area 338
15 Straight levee rice flood irrigation system,
80-acre system, 27 ac-in., Delta Area 339
16 Straight levee rice multi inlet flood irrigation system,
80-acre system, 23 ac-in., Delta Area 340
17 Straight levee rice – zero grade flood irrigation system
80-acre system, 19 ac-in., Delta Area 341
18 Peanuts irrigatied with a roll-out pipe
160-acre system, 12 ac-in., Delta Area 342

Literature Cited 343

2024 Planning Budgets

Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

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

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2023. (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:

$$RPH = \frac{RLC \; x \; RP}{THL}$$

$$RPA = RPH \; x \; PR$$

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

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

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 operation.

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 2023 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 through 18. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

Net Returns

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

Enterprise Budgets

Table 1.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3993	7.16	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
REPAIR & MAINTENANCE					
Implements	acre	10.79	1.0000	10.79	_____
Tractors	acre	4.47	1.0000	4.47	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
INTEREST ON OP. CAP.	acre	33.21	1.0000	33.21	_____

TOTAL DIRECT EXPENSES				932.22	_____
FIXED EXPENSES					
Implements	acre	19.47	1.0000	19.47	_____
Tractors	acre	34.46	1.0000	34.46	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____

TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1112.44	_____

Note: Cost of production estimates are based on 2023 input prices. .
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
OPERATOR LABOR	hour	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	11.0501	38.01	_____
REPAIR & MAINTENANCE	acre	41.22	1.0000	41.22	_____
INTEREST ON OP. CAP.	acre	33.21	1.0000	33.21	_____

TOTAL DIRECT EXPENSES				932.22	_____
RETURNS ABOVE DIRECT EXPENSES				209.34	_____
TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1112.44	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				29.12	_____

Note: Cost of production estimates are based on 2023 input prices. .
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed B3XF	thous	117.00					4.83	121.83		121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24					0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Engenia	oz	10.24					0.35	10.59		10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	132.00					0.91	132.91		132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
TOTALS		797.38	38.01	41.22	22.40	0.00	33.21	932.22	180.22	1112.44

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	4.23	3.97	0.00	0.00	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	9.07	4.42	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	228.87	132.56	63.59	38.29	28.63	192.15
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-228.87	-132.56	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-477.00	-609.56	-673.15	-711.44	-740.07	209.34

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-326	-302	-278	-254	-229	-205	-181	-157	-133	-109	-85
			-506	-482	-458	-434	-410	-386	-362	-337	-313	-289	-265
60	720.00	lb	-267	-238	-209	-180	-151	-122	-93	-65	-36	-7	21
			-447	-418	-389	-360	-331	-303	-274	-245	-216	-187	-158
70	840.00	lb	-208	-174	-140	-107	-73	-39	-6	27	61	95	128
			-388	-354	-321	-287	-253	-220	-186	-152	-118	-85	-51
80	960.00	lb	-149	-110	-72	-33	4	43	81	120	158	197	235
			-329	-291	-252	-214	-175	-136	-98	-59	-21	17	55
90	1080.00	lb	-90	-47	-3	39	82	126	169	212	256	299	343
			-270	-227	-183	-140	-97	-53	-10	32	76	119	162
100	1200.00	lb	-31	16	64	113	161	209	257	305	353	402	450
			-211	-163	-115	-67	-19	29	77	125	173	221	269
110	1320.00	lb	27	80	133	186	239	292	345	398	451	504	557
			-152	-99	-46	6	59	112	165	218	271	324	377
120	1440.00	lb	86	144	202	259	317	375	433	491	548	606	664
			-93	-35	21	79	137	195	253	310	368	426	484
130	1560.00	lb	145	208	270	333	395	458	521	583	646	708	771
			-34	27	90	153	215	278	340	403	466	528	591
140	1680.00	lb	204	271	339	406	474	541	608	676	743	811	878
			24	91	158	226	293	361	428	496	563	631	698
150	1800.00	lb	263	335	407	480	552	624	696	769	841	913	985
			83	155	227	299	372	444	516	588	661	733	805

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 2023 input prices.

Table 2.A Estimated costs per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.7500	39.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.5000	4.13	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Acephate 90%	lb	8.25	1.5000	12.38	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	9.34	1.5000	14.01	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	51.0000	3.57	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5025	9.02	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2737	25.04	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
Roll-Out Pipe Irr.	gal	3.44	8.5535	29.43	_____
REPAIR & MAINTENANCE					
Implements	acre	11.75	1.0000	11.75	_____
Tractors	acre	5.29	1.0000	5.29	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	35.15	1.0000	35.15	_____
TOTAL DIRECT EXPENSES				1033.93	_____
FIXED EXPENSES					
Implements	acre	23.82	1.0000	23.82	_____
Tractors	acre	40.82	1.0000	40.82	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				265.40	_____
TOTAL SPECIFIED EXPENSES				1299.33	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.57	1.0000	3.57	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.7101	12.74	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL	gal	3.44	20.7109	71.25	_____
REPAIR & MAINTENANCE	acre	50.16	1.0000	50.16	_____
INTEREST ON OP. CAP.	acre	35.15	1.0000	35.15	_____

TOTAL DIRECT EXPENSES				1033.93	_____
RETURNS ABOVE DIRECT EXPENSES				393.02	_____
TOTAL FIXED EXPENSES				265.40	_____

TOTAL SPECIFIED EXPENSES				1299.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				127.62	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90SP	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Mepiquat Chloride	oz					19.0000				
Centric 40WG	oz					2.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
TOTALS							0.71	0.50	1.38	0.50

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		2.62	1.96	1.60		0.51	6.69	8.91	15.60
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed B3XF	thous	117.00					4.83	121.83		121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24					0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90SP	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.14	5.27	4.76	10.03
Engenia	oz	10.24					0.28	10.52		10.52
Glyphosate 3lbs a.e	oz	8.00					0.22	8.22		8.22
Dual Magnum	pt	10.75					0.30	11.05		11.05
Mepiquat Chloride	oz	1.33					0.04	1.37		1.37
Centric 40WG	oz	11.90					0.33	12.23		12.23
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	10.31					0.28	10.59		10.59
IncidentalPestTrt$15	acre	22.50					0.62	23.12		23.12
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	165.00					1.13	166.13		166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
Roll-Out Pipe Irr.	acre	7.92	31.93	7.96	4.71		1.48	54.00	80.72	134.72
TOTALS		849.45	71.25	50.16	27.92	0.00	35.15	1033.93	265.40	1299.33

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	0.00	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.83	56.72	23.78	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.33	0.00	0.00	0.00	0.00	1.90	4.46	4.99	1.87	0.23	0.68	10.46
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.48	0.00	0.00	0.00	0.00	2.75	5.83	13.73	12.18	9.81	0.56	20.91
REPAIR & MAINTENANCE	4.51	0.00	0.00	0.00	0.00	1.65	3.64	6.44	2.52	1.40	0.19	29.81
INTEREST ON OP. CAP.	10.04	0.00	0.00	0.00	2.15	3.61	9.08	3.67	3.63	1.00	0.41	1.56
TOTAL DIRECT EXPENSES	131.78	0.00	0.00	0.00	41.08	78.63	229.11	110.30	135.25	49.96	30.08	227.74
NET INCOME	-131.78	0.00	0.00	0.00	-41.08	-78.63	-229.11	-110.30	-135.25	-49.96	-30.08	1199.21
NET INCOME TO DATE	-131.78	-131.78	-131.78	-131.78	-172.86	-251.49	-480.60	-590.90	-726.15	-776.11	-806.19	393.02

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-276	-246	-216	-186	-156	-126	-95	-65	-35	-5	24
			-541	-511	-481	-451	-421	-391	-361	-331	-301	-270	-240
60	900.00	lb	-202	-166	-130	-94	-58	-22	13	50	86	122	158
			-468	-432	-395	-359	-323	-287	-251	-215	-179	-143	-106
70	1050.00	lb	-129	-86	-44	-2	39	81	123	165	208	250	292
			-394	-352	-310	-268	-225	-183	-141	-99	-57	-15	26
80	1200.00	lb	-55	-7	40	89	137	185	233	281	329	378	426
			-320	-272	-224	-176	-128	-79	-31	16	64	112	160
90	1350.00	lb	18	72	126	180	235	289	343	397	451	505	560
			-247	-192	-138	-84	-30	23	78	132	186	240	294
100	1500.00	lb	91	152	212	272	332	393	453	513	573	633	694
			-173	-113	-53	7	67	127	187	248	308	368	428
110	1650.00	lb	165	231	298	364	430	496	563	629	695	761	827
			-99	-33	32	98	165	231	297	363	430	496	562
120	1800.00	lb	239	311	383	456	528	600	672	745	817	889	961
			-26	46	118	190	262	335	407	479	551	624	696
130	1950.00	lb	313	391	469	547	626	704	782	860	939	1017	1095
			47	125	204	282	360	439	517	595	673	752	830
140	2100.00	lb	386	471	555	639	723	808	892	976	1061	1145	1229
			121	205	289	374	458	542	627	711	795	880	964
150	2250.00	lb	460	550	641	731	821	912	1002	1092	1183	1273	1363
			195	285	375	466	556	646	736	827	917	1007	1098

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 2023 input prices.

Table 3.A Estimated costs per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.7500	39.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3993	7.16	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.79	1.0000	10.79	_____
Tractors	acre	4.47	1.0000	4.47	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	35.58	1.0000	35.58	_____
TOTAL DIRECT EXPENSES				1040.85	_____
FIXED EXPENSES					
Implements	acre	19.47	1.0000	19.47	_____
Tractors	acre	34.46	1.0000	34.46	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				279.72	_____
TOTAL SPECIFIED EXPENSES				1320.57	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	22.2512	76.54	_____
REPAIR & MAINTENANCE	acre	63.17	1.0000	63.17	_____
INTEREST ON OP. CAP.	acre	35.58	1.0000	35.58	_____

TOTAL DIRECT EXPENSES				1040.85	_____
RETURNS ABOVE DIRECT EXPENSES				386.10	_____
TOTAL FIXED EXPENSES				279.72	_____

TOTAL SPECIFIED EXPENSES				1320.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				106.38	_____

Note: Cost of production estimates are based on 2023 input prices.

Table 3.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.60	0.39	1.12	0.48

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed B3XF	thous	117.00					4.83	121.83		121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24					0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Engenia	oz	10.24					0.35	10.59		10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	10.31					0.28	10.59		10.59
IncidentalPestTrt$15	acre	22.50					0.62	23.12		23.12
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	165.00					1.13	166.13		166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17	99.50	163.67
TOTALS		841.32	76.54	63.17	24.24	0.00	35.58	1040.85	279.72	1320.57

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	44.82	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	5.57	4.12	0.20	0.15	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	17.19	15.41	11.56	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	21.45	1.99	1.49	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	9.12	5.46	2.49	1.04	0.39	1.54
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	230.26	163.78	92.92	51.76	28.63	225.37
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-230.26	-163.78	-92.92	-51.76	-28.63	1201.58
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-478.39	-642.17	-735.09	-786.85	-815.48	386.10

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-283	-253	-223	-193	-163	-132	-102	-72	-42	-12	17
			-563	-533	-502	-472	-442	-412	-382	-352	-322	-292	-262
60	900.00	lb	-209	-173	-137	-101	-65	-29	6	43	79	115	151
			-489	-453	-417	-381	-344	-308	-272	-236	-200	-164	-128
70	1050.00	lb	-136	-93	-51	-9	32	74	116	158	201	243	285
			-415	-373	-331	-289	-247	-205	-162	-120	-78	-36	5
80	1200.00	lb	-62	-14	33	82	130	178	226	274	322	371	419
			-342	-293	-245	-197	-149	-101	-53	-4	43	91	139
90	1350.00	lb	11	65	119	173	228	282	336	390	444	499	553
			-268	-214	-159	-105	-51	2	56	110	165	219	273
100	1500.00	lb	85	145	205	265	325	386	446	506	566	626	687
			-194	-134	-74	-14	46	106	166	226	287	347	407
110	1650.00	lb	158	224	291	357	423	489	556	622	688	754	821
			-120	-54	11	77	143	210	276	342	408	475	541
120	1800.00	lb	232	304	376	449	521	593	665	738	810	882	954
			-47	24	97	169	241	313	386	458	530	603	675
130	1950.00	lb	306	384	462	540	619	697	775	854	932	1010	1088
			26	104	182	261	339	417	496	574	652	730	809
140	2100.00	lb	379	464	548	632	717	801	885	969	1054	1138	1222
			100	184	268	353	437	521	605	690	774	858	943
150	2250.00	lb	453	543	634	724	814	905	995	1085	1176	1266	1356
			173	264	354	444	535	625	715	806	896	986	1076

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 2023 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	25.4000	101.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2712	4.87	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL					
Tractors	gal	3.44	4.1890	14.42	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
REPAIR & MAINTENANCE					
Implements	acre	7.38	1.0000	7.38	_____
Tractors	acre	3.04	1.0000	3.04	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
INTEREST ON OP. CAP.	acre	29.91	1.0000	29.91	_____

TOTAL DIRECT EXPENSES				877.10	_____
FIXED EXPENSES					
Implements	acre	12.08	1.0000	12.08	_____
Tractors	acre	23.41	1.0000	23.41	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____

TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1038.88	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	155.90	1.0000	155.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2897	2.61	_____
OPERATOR LABOR	hour	17.94	0.4788	8.59	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL	gal	3.44	9.0726	31.20	_____
REPAIR & MAINTENANCE	acre	36.38	1.0000	36.38	_____
INTEREST ON OP. CAP.	acre	29.91	1.0000	29.91	_____

TOTAL DIRECT EXPENSES				877.10	_____
RETURNS ABOVE DIRECT EXPENSES				264.46	_____
TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1038.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				102.68	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89	9.56	17.45
Cotton Seed B3XF	thous	117.00					4.83	121.83		121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24					0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	101.60					3.49	105.09		105.09
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Engenia	oz	10.24					0.35	10.59		10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	132.00					0.91	132.91		132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
TOTALS		761.54	31.20	36.38	18.07	0.00	29.91	877.10	161.78	1038.88

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	101.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.32	3.97	0.00	0.00	0.00	9.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	5.94	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.98	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	2.15	0.00	9.09	5.55	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	41.08	0.00	229.43	166.57	63.59	38.29	28.63	192.15
NET INCOME	-117.36	0.00	0.00	0.00	-41.08	0.00	-229.43	-166.57	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-158.44	-158.44	-387.87	-554.44	-618.03	-656.32	-684.95	264.46

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-271	-247	-223	-198	-174	-150	-126	-102	-78	-54	-30
			-432	-408	-384	-360	-336	-312	-288	-264	-240	-216	-192
60	720.00	lb	-212	-183	-154	-125	-96	-67	-38	-9	18	47	76
			-374	-345	-316	-287	-258	-229	-200	-171	-142	-113	-84
70	840.00	lb	-153	-119	-85	-52	-18	15	49	82	116	150	183
			-315	-281	-247	-213	-180	-146	-112	-79	-45	-11	22
80	960.00	lb	-94	-55	-17	21	59	98	136	175	213	252	291
			-256	-217	-179	-140	-101	-63	-24	13	52	90	129
90	1080.00	lb	-35	8	51	94	138	181	224	268	311	354	398
			-197	-153	-110	-67	-23	19	62	106	149	193	236
100	1200.00	lb	23	71	119	168	216	264	312	360	408	457	505
			-138	-89	-41	6	54	102	150	199	247	295	343
110	1320.00	lb	82	135	188	241	294	347	400	453	506	559	612
			-79	-26	26	79	132	185	238	291	344	397	450
120	1440.00	lb	141	199	257	314	372	430	488	546	603	661	719
			-20	37	95	153	210	268	326	384	442	499	557
130	1560.00	lb	200	263	325	388	450	513	576	638	701	764	826
			38	101	163	226	289	351	414	477	539	602	664
140	1680.00	lb	259	326	394	461	529	596	664	731	798	866	933
			97	165	232	299	367	434	502	569	637	704	772
150	1800.00	lb	318	390	462	535	607	679	751	824	896	968	1040
			156	228	301	373	445	517	590	662	734	806	879

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 2023 input prices.

Table 5.A Estimated costs per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	32.5498	130.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	1.3400	7.97	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	30.0000	78.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	42.7200	2.99	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.8159	14.63	_____
Self-Propelled	hour	17.94	0.1958	3.51	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL					
Tractors	gal	3.44	12.6003	43.36	_____
Self-Propelled	gal	3.44	3.4035	11.70	_____
REPAIR & MAINTENANCE					
Implements	acre	14.47	1.0000	14.47	_____
Tractors	acre	9.12	1.0000	9.12	_____
Self-Propelled	acre	10.03	1.0000	10.03	_____
INTEREST ON OP. CAP.	acre	30.86	1.0000	30.86	_____

TOTAL DIRECT EXPENSES				854.17	_____
FIXED EXPENSES					
Implements	acre	27.91	1.0000	27.91	_____
Tractors	acre	70.41	1.0000	70.41	_____
Self-Propelled	acre	49.34	1.0000	49.34	_____

TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.83	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.B Summary of estimated costs and returns per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	811.0000	651.07	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				771.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	184.50	1.0000	184.50	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	78.03	1.0000	78.03	_____
SEED/PLANTS	acre	78.00	1.0000	78.00	_____
GROWTH REGULATORS	acre	2.99	1.0000	2.99	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5022	4.53	_____
OPERATOR LABOR	hour	17.94	1.0118	18.14	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL	gal	3.44	16.0039	55.06	_____
REPAIR & MAINTENANCE	acre	33.62	1.0000	33.62	_____
INTEREST ON OP. CAP.	acre	30.86	1.0000	30.86	_____

TOTAL DIRECT EXPENSES				854.17	_____
RETURNS ABOVE DIRECT EXPENSES				-82.65	_____
TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-230.31	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.C Estimated resource use for field operations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1(350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1(350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1(350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
							---	---	---	---
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.D Estimated costs for field operations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	8R-38 2x1		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	8R-38 2x1		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.31	6.67	6.05	12.72
UAN (32%)	gal	65.10					3.13	68.23		68.23
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	8R-38 2x1		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed B3XF	thous	78.00					3.22	81.22		81.22
Cotton Seed Trt.	acre	13.40					0.55	13.95		13.95
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24					0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.22	6.58	6.05	12.63
UAN (32%)	gal	65.10					2.24	67.34		67.34
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Engenia	oz	10.24					0.35	10.59		10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	7.97					0.27	8.24		8.24
Mepiquat Chloride	oz	0.75					0.03	0.78		0.78
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Cotton Picker	4R2x1(350)		10.68	9.61	7.12		0.19	27.60	46.02	73.62
Boll Buggy	4R2x1(350)		9.15	3.23	5.56		0.12	18.06	18.25	36.31
Module Builder	4R2x1(350)		9.15	3.41	7.12		0.14	19.82	18.72	38.54
Gin & Haul	lb	89.21					0.61	89.82		89.82
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03	11.99	26.02
TOTALS		697.45	55.06	33.62	37.18	0.00	30.86	854.17	147.66	1001.83

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	771.52
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.21
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	65.10	0.00	65.10	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	12.80	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	4.23	5.18	0.00	0.00	0.00	23.35
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	7.49	0.00	0.00	0.00	34.82
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.71	3.64	3.95	0.00	0.00	0.00	20.79
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.44	7.18	4.29	1.70	0.77	0.39	1.16
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	74.90	181.38	128.55	63.59	38.29	28.63	169.33
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-74.90	-181.38	-128.55	-63.59	-38.29	-28.63	602.19
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-244.40	-425.78	-554.33	-617.92	-656.21	-684.84	-82.65

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., B3XF variety, Delta, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-444	-428	-412	-395	-379	-363	-346	-330	-314	-298	-281
			-592	-576	-559	-543	-527	-510	-494	-478	-462	-445	-429
60	486.60	lb	-404	-385	-365	-346	-326	-307	-287	-268	-248	-229	-209
			-552	-532	-513	-493	-474	-454	-435	-415	-396	-376	-357
70	567.70	lb	-364	-342	-319	-296	-273	-251	-228	-205	-182	-159	-137
			-512	-489	-467	-444	-421	-398	-375	-353	-330	-307	-284
80	648.80	lb	-325	-299	-273	-246	-220	-194	-168	-142	-116	-90	-64
			-472	-446	-420	-394	-368	-342	-316	-290	-264	-238	-212
90	729.90	lb	-285	-255	-226	-197	-168	-138	-109	-80	-50	-21	7
			-432	-403	-374	-345	-315	-286	-257	-227	-198	-169	-139
100	811.00	lb	-245	-212	-180	-147	-115	-82	-50	-17	15	47	80
			-393	-360	-327	-295	-262	-230	-197	-165	-132	-100	-67
110	892.10	lb	-205	-169	-133	-98	-62	-26	9	45	80	116	152
			-353	-317	-281	-245	-209	-174	-138	-102	-66	-30	4
120	973.20	lb	-165	-126	-87	-48	-9	29	68	107	146	185	224
			-313	-274	-235	-196	-157	-118	-78	-39	-0	38	77
130	1054.30	lb	-125	-83	-41	1	43	85	128	170	212	255	297
			-273	-231	-188	-146	-104	-61	-19	22	65	107	149
140	1135.40	lb	-86	-40	5	50	96	141	187	233	278	324	369
			-233	-188	-142	-96	-51	-5	39	85	130	176	222
150	1216.50	lb	-46	2	51	100	149	197	246	295	344	393	442
			-193	-145	-96	-47	1	50	99	147	196	245	294

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 2023 input prices.

Table 6.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3993	7.16	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
REPAIR & MAINTENANCE					
Implements	acre	10.79	1.0000	10.79	_____
Tractors	acre	4.47	1.0000	4.47	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
INTEREST ON OP. CAP.	acre	33.07	1.0000	33.07	_____

TOTAL DIRECT EXPENSES				929.39	_____
FIXED EXPENSES					
Implements	acre	19.47	1.0000	19.47	_____
Tractors	acre	34.46	1.0000	34.46	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____

TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1109.61	_____

Note: Cost of production estimates are based on 2023 input prices. .

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

Table 6.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
OPERATOR LABOR	hour	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	11.0501	38.01	_____
REPAIR & MAINTENANCE	acre	41.22	1.0000	41.22	_____
INTEREST ON OP. CAP.	acre	33.07	1.0000	33.07	_____

TOTAL DIRECT EXPENSES				929.39	_____
RETURNS ABOVE DIRECT EXPENSES				212.17	_____
TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1109.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				31.95	_____

Note: Cost of production estimates are based on 2023 input prices. .
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2023 input prices.

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

Table 6.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed W3FE	thous	109.35					4.51	113.86		113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	132.00					0.91	132.91		132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
TOTALS		794.69	38.01	41.22	22.40	0.00	33.07	929.39	180.22	1109.61

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	4.23	3.97	0.00	0.00	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	8.85	4.50	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	223.48	135.12	63.59	38.29	28.63	192.15
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-223.48	-135.12	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-471.61	-606.73	-670.32	-708.61	-737.24	212.17

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-323	-299	-275	-251	-227	-203	-178	-154	-130	-106	-82
			-503	-479	-455	-431	-407	-383	-359	-335	-311	-286	-262
60	720.00	lb	-264	-235	-206	-177	-148	-120	-91	-62	-33	-4	24
			-444	-415	-386	-358	-329	-300	-271	-242	-213	-184	-155
70	840.00	lb	-205	-171	-138	-104	-70	-36	-3	30	64	97	131
			-385	-352	-318	-284	-250	-217	-183	-149	-116	-82	-48
80	960.00	lb	-146	-108	-69	-30	7	46	84	123	161	200	238
			-326	-288	-249	-211	-172	-134	-95	-57	-18	19	58
90	1080.00	lb	-87	-44	-0	42	85	129	172	215	259	302	345
			-267	-224	-181	-137	-94	-51	-7	35	78	122	165
100	1200.00	lb	-28	19	67	115	164	212	260	308	356	404	453
			-208	-160	-112	-64	-16	31	80	128	176	224	272
110	1320.00	lb	30	83	136	189	242	295	348	401	454	507	560
			-149	-96	-43	9	62	114	167	220	273	326	379
120	1440.00	lb	89	147	204	262	320	378	436	493	551	609	667
			-90	-33	24	82	140	198	255	313	371	429	487
130	1560.00	lb	148	210	273	336	398	461	523	586	649	711	774
			-32	30	93	155	218	281	343	406	468	531	594
140	1680.00	lb	207	274	342	409	476	544	611	679	746	814	881
			26	94	161	229	296	364	431	499	566	633	701
150	1800.00	lb	266	338	410	482	555	627	699	771	844	916	988
			85	158	230	302	374	447	519	591	663	736	808

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 2023 input prices.

Table 7.A Estimated costs per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.7500	39.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	9.34	1.5000	14.01	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	51.0000	3.57	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5025	9.02	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2737	25.04	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
Roll-Out Pipe Irr.	gal	3.44	8.5535	29.43	_____
REPAIR & MAINTENANCE					
Implements	acre	11.75	1.0000	11.75	_____
Tractors	acre	5.29	1.0000	5.29	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00	_____

TOTAL DIRECT EXPENSES				1031.09	_____
FIXED EXPENSES					
Implements	acre	23.82	1.0000	23.82	_____
Tractors	acre	40.82	1.0000	40.82	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____

TOTAL FIXED EXPENSES				265.40	_____

TOTAL SPECIFIED EXPENSES				1296.49	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.57	1.0000	3.57	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.7101	12.74	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL	gal	3.44	20.7109	71.25	_____
REPAIR & MAINTENANCE	acre	50.16	1.0000	50.16	_____
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00	_____

TOTAL DIRECT EXPENSES				1031.09	_____
RETURNS ABOVE DIRECT EXPENSES				395.86	_____
TOTAL FIXED EXPENSES				265.40	_____

TOTAL SPECIFIED EXPENSES				1296.49	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				130.46	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					19.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
							---	---	---	---
TOTALS							0.71	0.50	1.38	0.50

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		2.62	1.96	1.60		0.51	6.69	8.91	15.60
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed W3FE	thous	109.35					4.51	113.86		113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.14	5.27	4.76	10.03
Enlist Duo	pt	20.72					0.57	21.29		21.29
Dual Magnum	pt	10.75					0.30	11.05		11.05
Centric 40WG	oz	11.90					0.33	12.23		12.23
Mepiquat Chloride	oz	1.33					0.04	1.37		1.37
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	10.31					0.28	10.59		10.59
IncidentalPestTrt$15	acre	22.50					0.62	23.12		23.12
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	165.00					1.13	166.13		166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
Roll-Out Pipe Irr.	acre	7.92	31.93	7.96	4.71		1.48	54.00	80.72	134.72
TOTALS		846.76	71.25	50.16	27.92	0.00	35.00	1031.09	265.40	1296.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	0.00	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.83	56.72	23.78	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.33	0.00	0.00	0.00	0.00	1.90	4.46	4.99	1.87	0.23	0.68	10.46
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.48	0.00	0.00	0.00	0.00	2.75	5.83	13.73	12.18	9.81	0.56	20.91
REPAIR & MAINTENANCE	4.51	0.00	0.00	0.00	0.00	1.65	3.64	6.44	2.52	1.40	0.19	29.81
INTEREST ON OP. CAP.	10.04	0.00	0.00	0.00	2.15	3.61	8.86	3.67	3.70	1.00	0.41	1.56
TOTAL DIRECT EXPENSES	131.78	0.00	0.00	0.00	41.08	78.63	223.72	110.30	137.80	49.96	30.08	227.74
NET INCOME	-131.78	0.00	0.00	0.00	-41.08	-78.63	-223.72	-110.30	-137.80	-49.96	-30.08	1199.21
NET INCOME TO DATE	-131.78	-131.78	-131.78	-131.78	-172.86	-251.49	-475.21	-585.51	-723.31	-773.27	-803.35	395.86

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.,
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-273	-243	-213	-183	-153	-123	-93	-62	-32	-2	27
			-539	-508	-478	-448	-418	-388	-358	-328	-298	-268	-238
60	900.00	lb	-199	-163	-127	-91	-55	-19	16	52	89	125	161
			-465	-429	-393	-357	-320	-284	-248	-212	-176	-140	-104
70	1050.00	lb	-126	-84	-42	0	42	84	126	168	210	253	295
			-391	-349	-307	-265	-223	-180	-138	-96	-54	-12	29
80	1200.00	lb	-52	-4	43	91	140	188	236	284	332	380	429
			-317	-269	-221	-173	-125	-77	-28	19	67	115	163
90	1350.00	lb	21	75	129	183	237	292	346	400	454	508	562
			-244	-190	-135	-81	-27	26	80	135	189	243	297
100	1500.00	lb	94	155	215	275	335	395	456	516	576	636	696
			-170	-110	-50	10	70	130	190	250	311	371	431
110	1650.00	lb	168	234	300	367	433	499	565	632	698	764	830
			-96	-30	35	101	168	234	300	366	432	499	565
120	1800.00	lb	242	314	386	458	531	603	675	747	820	892	964
			-23	49	121	193	265	338	410	482	554	627	699
130	1950.00	lb	315	394	472	550	629	707	785	863	942	1020	1098
			50	128	207	285	363	441	520	598	676	754	833
140	2100.00	lb	389	473	558	642	726	811	895	979	1063	1148	1232
			124	208	292	377	461	545	629	714	798	882	967
150	2250.00	lb	463	553	643	734	824	914	1005	1095	1185	1276	1366
			197	288	378	468	559	649	739	830	920	1010	1101

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 2023 input prices.

Table 8.A Estimated costs per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.7500	39.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3993	7.16	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.79	1.0000	10.79	_____
Tractors	acre	4.47	1.0000	4.47	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	35.44	1.0000	35.44	_____
TOTAL DIRECT EXPENSES				1038.02	_____
FIXED EXPENSES					
Implements	acre	19.47	1.0000	19.47	_____
Tractors	acre	34.46	1.0000	34.46	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				279.72	_____
TOTAL SPECIFIED EXPENSES				1317.74	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	22.2512	76.54	_____
REPAIR & MAINTENANCE	acre	63.17	1.0000	63.17	_____
INTEREST ON OP. CAP.	acre	35.44	1.0000	35.44	_____

TOTAL DIRECT EXPENSES				1038.02	_____
RETURNS ABOVE DIRECT EXPENSES				388.93	_____
TOTAL FIXED EXPENSES				279.72	_____

TOTAL SPECIFIED EXPENSES				1317.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				109.21	_____

Note: Cost of production estimates are based on 2023 input prices.

Table 8.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.60	0.39	1.12	0.48

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96	12.56
UAN (32%)	gal	68.72					3.31	72.03		72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed W3FE	thous	109.35					4.51	113.86		113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	68.72					2.36	71.08		71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	10.31					0.28	10.59		10.59
IncidentalPestTrt$15	acre	22.50					0.62	23.12		23.12
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	165.00					1.13	166.13		166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17	99.50	163.67
TOTALS		838.63	76.54	63.17	24.24	0.00	35.44	1038.02	279.72	1317.74

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	44.82	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	5.57	4.12	0.20	0.15	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	17.19	15.41	11.56	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	21.45	1.99	1.49	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	8.90	5.54	2.49	1.04	0.39	1.54
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	224.87	166.34	92.92	51.76	28.63	225.37
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-224.87	-166.34	-92.92	-51.76	-28.63	1201.58
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-473.00	-639.34	-732.26	-784.02	-812.65	388.93

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.,
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-280	-250	-220	-190	-160	-130	-100	-69	-39	-9	20
			-560	-530	-500	-470	-439	-409	-379	-349	-319	-289	-259
60	900.00	lb	-206	-170	-134	-98	-62	-26	9	45	82	118	154
			-486	-450	-414	-378	-342	-306	-269	-233	-197	-161	-125
70	1050.00	lb	-133	-91	-48	-6	35	77	119	161	203	246	288
			-412	-370	-328	-286	-244	-202	-160	-117	-75	-33	8
80	1200.00	lb	-59	-11	36	84	133	181	229	277	325	373	422
			-339	-291	-242	-194	-146	-98	-50	-2	46	94	142
90	1350.00	lb	14	68	122	176	230	285	339	393	447	501	556
			-265	-211	-157	-102	-48	5	59	113	167	222	276
100	1500.00	lb	87	148	208	268	328	388	449	509	569	629	689
			-191	-131	-71	-11	49	109	169	229	289	350	410
110	1650.00	lb	161	227	294	360	426	492	558	625	691	757	823
			-118	-51	14	80	146	213	279	345	411	477	544
120	1800.00	lb	235	307	379	452	524	596	668	741	813	885	957
			-44	27	100	172	244	316	389	461	533	605	678
130	1950.00	lb	308	387	465	543	622	700	778	856	935	1013	1091
			29	107	185	264	342	420	498	577	655	733	811
140	2100.00	lb	382	466	551	635	719	804	888	972	1057	1141	1225
			102	187	271	355	440	524	608	693	777	861	945
150	2250.00	lb	456	546	637	727	817	907	998	1088	1178	1269	1359
			176	266	357	447	537	628	718	808	899	989	1079

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 2023 input prices.

Table 9.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	25.4000	101.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2712	4.87	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL					
Tractors	gal	3.44	4.1890	14.42	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
REPAIR & MAINTENANCE					
Implements	acre	7.38	1.0000	7.38	_____
Tractors	acre	3.04	1.0000	3.04	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
INTEREST ON OP. CAP.	acre	29.77	1.0000	29.77	_____

TOTAL DIRECT EXPENSES				874.27	_____
FIXED EXPENSES					
Implements	acre	12.08	1.0000	12.08	_____
Tractors	acre	23.41	1.0000	23.41	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____

TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1036.05	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	155.90	1.0000	155.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2897	2.61	_____
OPERATOR LABOR	hour	17.94	0.4788	8.59	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL	gal	3.44	9.0726	31.20	_____
REPAIR & MAINTENANCE	acre	36.38	1.0000	36.38	_____
INTEREST ON OP. CAP.	acre	29.77	1.0000	29.77	_____

TOTAL DIRECT EXPENSES				874.27	_____
RETURNS ABOVE DIRECT EXPENSES				267.29	_____
TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1036.05	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				105.51	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89	9.56	17.45
Cotton Seed W3FE	thous	109.35					4.51	113.86		113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96	12.48
UAN (32%)	gal	101.60					3.49	105.09		105.09
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	11.90					0.41	12.31		12.31
Mepiquat Chloride	oz	1.12					0.04	1.16		1.16
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31	169.34
Gin & Haul	lb	132.00					0.91	132.91		132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51	20.72
TOTALS		758.85	31.20	36.38	18.07	0.00	29.77	874.27	161.78	1036.05

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	101.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.32	3.97	0.00	0.00	0.00	9.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	5.94	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.98	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	2.15	0.00	8.87	5.63	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	41.08	0.00	224.04	169.13	63.59	38.29	28.63	192.15
NET INCOME	-117.36	0.00	0.00	0.00	-41.08	0.00	-224.04	-169.13	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-158.44	-158.44	-382.48	-551.61	-615.20	-653.49	-682.12	267.29

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-268	-244	-220	-196	-172	-147	-123	-99	-75	-51	-27
			-430	-406	-381	-357	-333	-309	-285	-261	-237	-213	-189
60	720.00	lb	-209	-180	-151	-122	-93	-64	-35	-7	21	50	79
			-371	-342	-313	-284	-255	-226	-197	-168	-139	-111	-82
70	840.00	lb	-150	-116	-82	-49	-15	18	51	85	119	153	186
			-312	-278	-244	-211	-177	-143	-109	-76	-42	-8	24
80	960.00	lb	-91	-52	-14	24	62	101	139	178	216	255	293
			-253	-214	-176	-137	-99	-60	-22	16	55	93	132
90	1080.00	lb	-32	10	54	97	140	184	227	270	314	357	401
			-194	-150	-107	-64	-20	22	65	109	152	195	239
100	1200.00	lb	26	74	122	170	219	267	315	363	411	459	508
			-135	-87	-38	9	57	105	153	201	250	298	346
110	1320.00	lb	85	138	191	244	297	350	403	456	509	562	615
			-76	-23	29	82	135	188	241	294	347	400	453
120	1440.00	lb	144	202	259	317	375	433	491	548	606	664	722
			-17	40	98	155	213	271	329	387	445	502	560
130	1560.00	lb	203	265	328	391	453	516	579	641	704	766	829
			41	104	166	229	292	354	417	479	542	605	667
140	1680.00	lb	262	329	397	464	532	599	666	734	801	869	936
			100	167	235	302	370	437	505	572	639	707	774
150	1800.00	lb	321	393	465	538	610	682	754	827	899	971	1043
			159	231	303	376	448	520	592	665	737	809	881

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 2023 input prices.

Table 10.A Estimated costs per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.2500	36.07	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	32.5498	130.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	1.3400	7.97	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
IncidentalPestTrt$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	30.0000	72.90	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	42.7200	2.99	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.8159	14.63	_____
Self-Propelled	hour	17.94	0.1958	3.51	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL					
Tractors	gal	3.44	12.6003	43.36	_____
Self-Propelled	gal	3.44	3.4035	11.70	_____
REPAIR & MAINTENANCE					
Implements	acre	14.47	1.0000	14.47	_____
Tractors	acre	9.12	1.0000	9.12	_____
Self-Propelled	acre	10.03	1.0000	10.03	_____
INTEREST ON OP. CAP.	acre	30.83	1.0000	30.83	_____

TOTAL DIRECT EXPENSES				854.00	_____
FIXED EXPENSES					
Implements	acre	27.91	1.0000	27.91	_____
Tractors	acre	70.41	1.0000	70.41	_____
Self-Propelled	acre	49.34	1.0000	49.34	_____

TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.66	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.B Summary of estimated costs and returns per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	811.0000	651.07	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				771.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	184.50	1.0000	184.50	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	78.03	1.0000	78.03	_____
SEED/PLANTS	acre	72.90	1.0000	72.90	_____
GROWTH REGULATORS	acre	2.99	1.0000	2.99	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5022	4.53	_____
OPERATOR LABOR	hour	17.94	1.0118	18.14	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL	gal	3.44	16.0039	55.06	_____
REPAIR & MAINTENANCE	acre	33.62	1.0000	33.62	_____
INTEREST ON OP. CAP.	acre	30.83	1.0000	30.83	_____

TOTAL DIRECT EXPENSES				854.00	_____
RETURNS ABOVE DIRECT EXPENSES				-82.48	_____
TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.66	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-230.14	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.C Estimated resource use for field operations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1(350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1(350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1(350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.D Estimated costs for field operations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed-Subsoil Fold	8R-38 2x1		2.86	2.55	1.73		0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	8R-38 2x1		1.31	0.98	0.79		0.25	3.33	4.45	7.78
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Clarity	pt	7.15					0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.66					0.04	0.70		0.70
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.31	6.67	6.05	12.72
UAN (32%)	gal	65.10					3.13	68.23		68.23
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70	10.24
Plant - Folding	8R-38 2x1		2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed W3FE	thous	72.90					3.01	75.91		75.91
Cotton Seed Trt.	acre	13.40					0.55	13.95		13.95
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Cotoran	pt	10.48					0.43	10.91		10.91
Surfactant	pt	0.66					0.03	0.69		0.69
Cotton Consultant	acre	8.00					0.33	8.33		8.33
Eradication	acre	1.00					0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Acephate 90%	lb	4.13					0.17	4.30		4.30
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Bidrin 8EC	oz	4.83					0.17	5.00		5.00
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.22	6.58	6.05	12.63
UAN (32%)	gal	65.10					2.24	67.34		67.34
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31	4.76	10.07
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Centric 40WG	oz	7.97					0.27	8.24		8.24
Mepiquat Chloride	oz	0.75					0.03	0.78		0.78
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Diamond .83EC	oz	7.56					0.21	7.77		7.77
Imidacloprid 4F	oz	1.58					0.04	1.62		1.62
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Acephate 90%	lb	6.19					0.17	6.36		6.36
Mepiquat Chloride	oz	1.12					0.03	1.15		1.15
Bifenthrin	oz	3.58					0.10	3.68		3.68
App by Air (3 gal)	appl	1.72					0.05	1.77		1.77
Lambda	oz	0.39					0.01	0.40		0.40
Bidrin 8EC	oz	3.02					0.08	3.10		3.10
Incidental Pest										
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
IncidentalPestTrt$15	acre	15.00					0.41	15.41		15.41
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Acephate 90%	lb	6.19					0.13	6.32		6.32
Bifenthrin	oz	3.58					0.07	3.65		3.65
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Transform WG	oz	14.01					0.29	14.30		14.30
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66		2.66
Ethephon 6E	pt	6.76					0.09	6.85		6.85
App by Air (5 gal)	appl	4.06					0.06	4.12		4.12
Ethephon 6E	pt	1.06					0.01	1.07		1.07
Tribufos 6lb	pt	5.63					0.08	5.71		5.71
Cotton Picker	4R2x1(350)		10.68	9.61	7.12		0.19	27.60	46.02	73.62
Boll Buggy	4R2x1(350)		9.15	3.23	5.56		0.12	18.06	18.25	36.31
Module Builder	4R2x1(350)		9.15	3.41	7.12		0.14	19.82	18.72	38.54
Gin & Haul	lb	89.21					0.61	89.82		89.82
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03	11.99	26.02
TOTALS		697.31	55.06	33.62	37.18	0.00	30.83	854.00	147.66	1001.66

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	771.52
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.21
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	65.10	0.00	65.10	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	12.80	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	72.90	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.24	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.00	1.90	4.23	5.18	0.00	0.00	0.00	23.35
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	7.49	0.00	0.00	0.00	34.82
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.71	3.64	3.95	0.00	0.00	0.00	20.79
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.44	7.07	4.37	1.70	0.77	0.39	1.16
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	74.90	178.65	131.11	63.59	38.29	28.63	169.33
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-74.90	-178.65	-131.11	-63.59	-38.29	-28.63	602.19
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-244.40	-423.05	-554.16	-617.75	-656.04	-684.67	-82.48

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
Cotton, 12R-38" 2X1 full-skip (8 rows planted)
Cons. till., W3FE variety, Delta, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-444	-428	-411	-395	-379	-363	-346	-330	-314	-297	-281
			-592	-575	-559	-543	-527	-510	-494	-478	-461	-445	-429
60	486.60	lb	-404	-385	-365	-346	-326	-306	-287	-267	-248	-228	-209
			-552	-532	-513	-493	-474	-454	-435	-415	-396	-376	-356
70	567.70	lb	-364	-342	-319	-296	-273	-250	-228	-205	-182	-159	-136
			-512	-489	-466	-444	-421	-398	-375	-352	-330	-307	-284
80	648.80	lb	-324	-298	-272	-246	-220	-194	-168	-142	-116	-90	-64
			-472	-446	-420	-394	-368	-342	-316	-290	-264	-238	-212
90	729.90	lb	-285	-255	-226	-197	-167	-138	-109	-80	-50	-21	7
			-432	-403	-374	-344	-315	-286	-256	-227	-198	-169	-139
100	811.00	lb	-245	-212	-180	-147	-115	-82	-49	-17	15	47	80
			-392	-360	-327	-295	-262	-230	-197	-165	-132	-99	-67
110	892.10	lb	-205	-169	-133	-97	-62	-26	9	45	81	116	152
			-353	-317	-281	-245	-209	-174	-138	-102	-66	-30	5
120	973.20	lb	-165	-126	-87	-48	-9	29	68	107	146	186	225
			-313	-274	-235	-196	-156	-117	-78	-39	-0	38	77
130	1054.30	lb	-125	-83	-41	1	43	85	128	170	212	255	297
			-273	-231	-188	-146	-104	-61	-19	22	65	107	149
140	1135.40	lb	-85	-40	5	50	96	142	187	233	278	324	369
			-233	-187	-142	-96	-51	-5	39	85	131	176	222
150	1216.50	lb	-46	2	51	100	149	198	246	295	344	393	442
			-193	-144	-96	-47	1	50	99	148	196	245	294

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 2023 input prices.

Table 11.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2209	3.96	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL					
Tractors	gal	3.44	3.4114	11.74	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
INTEREST ON OP. CAP.	acre	21.10	1.0000	21.10	_____

TOTAL DIRECT EXPENSES				452.44	_____
FIXED EXPENSES					
Implements	acre	18.85	1.0000	18.85	_____
Tractors	acre	19.07	1.0000	19.07	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____

TOTAL FIXED EXPENSES				63.75	_____

TOTAL SPECIFIED EXPENSES				516.19	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 11.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	42.0000	532.14	_____
TOTAL INCOME				532.14	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	127.02	1.0000	127.02	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
OPERATOR LABOR	hour	17.94	0.3295	5.91	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL	gal	3.44	5.1352	17.66	_____
REPAIR & MAINTENANCE	acre	14.62	1.0000	14.62	_____
INTEREST ON OP. CAP.	acre	21.10	1.0000	21.10	_____
TOTAL DIRECT EXPENSES				452.44	_____
RETURNS ABOVE DIRECT EXPENSES				79.70	_____
TOTAL FIXED EXPENSES				63.75	_____
TOTAL SPECIFIED EXPENSES				516.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.95	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 11.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.32	0.30	0.39	0.29

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39		0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59		0.44	5.75	7.82	13.57
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50					2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Zidua WG	oz	13.14					0.45	13.59		13.59
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Acephate 90SP	lb	6.19					0.09	6.28		6.28
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	11.34					0.08	11.42		11.42
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
TOTALS		387.28	17.66	14.62	11.78	0.00	21.10	452.44	63.75	516.19

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 11.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	532.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	52.61	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.07	0.00	0.00	0.00	0.00	0.00	2.19	0.90	0.00	0.00	0.00	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.91	0.00	0.00	0.00	0.00	0.00	2.70	1.02	0.00	0.00	0.00	6.03
REPAIR & MAINTENANCE	3.98	0.00	0.00	0.00	0.00	0.00	3.94	0.42	0.00	0.00	0.00	6.28
INTEREST ON OP. CAP.	10.87	0.00	0.00	0.00	2.43	0.00	4.82	2.11	0.00	0.00	0.68	0.19
TOTAL DIRECT EXPENSES	142.61	0.00	0.00	0.00	46.43	0.00	122.07	63.56	0.00	0.00	50.31	27.46
NET INCOME	-142.61	0.00	0.00	0.00	-46.43	0.00	-122.07	-63.56	0.00	0.00	-50.31	504.68
NET INCOME TO DATE	-142.61	-142.61	-142.61	-142.61	-189.04	-189.04	-311.11	-374.67	-374.67	-374.67	-424.98	79.70

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-247	-233	-220	-207	-193	-180	-167	-154	-140	-127	-114
			-310	-297	-284	-271	-257	-244	-231	-217	-204	-191	-177
60	25.20	bu	-208	-192	-176	-160	-144	-128	-112	-96	-80	-64	-48
			-272	-256	-240	-224	-208	-192	-176	-160	-144	-128	-112
70	29.40	bu	-169	-151	-132	-113	-95	-76	-57	-39	-20	-2	16
			-233	-214	-196	-177	-158	-140	-121	-103	-84	-65	-47
80	33.60	bu	-130	-109	-88	-67	-45	-24	-3	18	39	60	81
			-194	-173	-152	-130	-109	-88	-66	-45	-24	-3	18
90	37.80	bu	-92	-68	-44	-20	3	27	51	75	99	123	147
			-155	-131	-107	-84	-60	-36	-12	11	35	59	83
100	42.00	bu	-53	-26	-0	26	53	79	106	132	159	186	212
			-117	-90	-63	-37	-10	15	42	69	95	122	148
110	46.20	bu	-14	14	43	73	102	131	161	190	219	248	278
			-78	-49	-19	9	38	68	97	126	155	185	214
120	50.40	bu	24	56	88	119	151	183	215	247	279	311	343
			-39	-7	24	56	88	120	152	183	215	247	279
130	54.60	bu	62	97	132	166	201	235	270	305	339	374	408
			-0	33	68	102	137	172	206	241	275	310	345
140	58.80	bu	101	138	176	213	250	287	325	362	399	436	474
			37	75	112	149	186	224	261	298	335	373	410
150	63.00	bu	140	180	220	260	300	340	379	419	459	499	539
			76	116	156	196	236	276	316	356	396	435	475

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 2023 input prices.

Table 12.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.0000	40.55	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	60.0000	16.20	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3601	6.46	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL					
Tractors	gal	3.44	5.0744	17.46	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
Roll-Out Pipe Irr.	gal	3.44	7.3316	25.23	_____
REPAIR & MAINTENANCE					
Implements	acre	8.14	1.0000	8.14	_____
Tractors	acre	3.70	1.0000	3.70	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	23.66	1.0000	23.66	_____
TOTAL DIRECT EXPENSES				544.27	_____
FIXED EXPENSES					
Implements	acre	23.72	1.0000	23.72	_____
Tractors	acre	28.53	1.0000	28.53	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				152.55	_____
TOTAL SPECIFIED EXPENSES				696.82	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	60.0000	760.20	_____
TOTAL INCOME				760.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.55	1.0000	40.55	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	127.02	1.0000	127.02	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	16.20	1.0000	16.20	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.4687	8.41	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL	gal	3.44	14.1298	48.61	_____
REPAIR & MAINTENANCE	acre	24.12	1.0000	24.12	_____
INTEREST ON OP. CAP.	acre	23.66	1.0000	23.66	_____
TOTAL DIRECT EXPENSES				544.27	_____
RETURNS ABOVE DIRECT EXPENSES				215.93	_____
TOTAL FIXED EXPENSES				152.55	_____
TOTAL SPECIFIED EXPENSES				696.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				63.38	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					60.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.46	0.44	0.89	0.35

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39		0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59		0.44	5.75	7.82	13.57
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07		0.56	7.39	8.08	15.47
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50					2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Enlist Duo	pt	20.72					0.71	21.43		21.43
Dual Magnum	pt	10.75					0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Zidua WG	oz	13.14					0.45	13.59		13.59
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Miravis Top	oz	20.82					0.43	21.25		21.25
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Acephate 90SP	lb	6.19					0.09	6.28		6.28
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	16.20					0.11	16.31		16.31
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
Roll-Out Pipe Irr.	acre	7.92	27.73	7.96	4.71		1.36	49.68	80.72	130.40
TOTALS		429.32	48.61	24.12	18.56	0.00	23.66	544.27	152.55	696.82

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	760.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	52.61	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.19	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.82	0.00	0.00	0.00	0.00	0.00	2.19	1.13	2.89	0.23	0.00	4.30
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	12.41	0.00	0.00	0.00	0.00	0.00	2.70	1.02	17.48	8.41	0.00	6.59
REPAIR & MAINTENANCE	5.91	0.00	0.00	0.00	0.00	0.00	3.94	0.42	5.98	1.40	0.00	6.47
INTEREST ON OP. CAP.	11.62	0.00	0.00	0.00	2.43	0.00	4.82	2.12	0.95	0.81	0.68	0.23
TOTAL DIRECT EXPENSES	152.54	0.00	0.00	0.00	46.43	0.00	122.07	63.80	35.22	40.11	50.31	33.79
NET INCOME	-152.54	0.00	0.00	0.00	-46.43	0.00	-122.07	-63.80	-35.22	-40.11	-50.31	726.41
NET INCOME TO DATE	-152.54	-152.54	-152.54	-152.54	-198.97	-198.97	-321.04	-384.84	-420.06	-460.17	-510.48	215.93

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-251	-232	-213	-194	-175	-156	-137	-118	-99	-79	-60
			-403	-384	-365	-346	-327	-308	-289	-270	-251	-232	-213
60	36.00	bu	-195	-172	-150	-127	-104	-81	-58	-36	-13	9	32
			-348	-325	-302	-279	-256	-234	-211	-188	-165	-142	-120
70	42.00	bu	-140	-113	-87	-60	-33	-7	19	45	72	99	125
			-292	-266	-239	-213	-186	-159	-133	-106	-79	-53	-26
80	48.00	bu	-84	-54	-24	6	36	67	97	127	158	188	219
			-237	-207	-176	-146	-115	-85	-54	-24	5	36	66
90	54.00	bu	-29	4	38	73	107	141	175	209	244	278	312
			-182	-147	-113	-79	-45	-11	23	57	91	125	160
100	60.00	bu	25	63	101	139	177	215	253	291	329	367	405
			-126	-88	-50	-12	25	63	101	139	177	215	253
110	66.00	bu	81	123	164	206	248	290	332	373	415	457	499
			-71	-29	12	54	95	137	179	221	263	305	346
120	72.00	bu	136	182	227	273	319	364	410	455	501	547	592
			-15	29	75	120	166	212	257	303	348	394	440
130	78.00	bu	192	241	290	340	389	439	488	537	587	636	686
			39	88	138	187	237	286	335	385	434	484	533
140	84.00	bu	247	300	353	407	460	513	566	619	673	726	779
			94	148	201	254	307	360	414	467	520	573	627
150	90.00	bu	302	359	416	473	530	587	644	701	758	815	872
			150	207	264	321	378	435	492	549	606	663	720

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 2023 input prices.

Table 13.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3362	6.02	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL					
Tractors	gal	3.44	3.8348	13.17	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
Contour Flood Irr.	gal	3.44	10.9974	37.83	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	2.75	1.0000	2.75	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	22.51	1.0000	22.51	_____

TOTAL DIRECT EXPENSES				519.65	_____
FIXED EXPENSES					
Implements	acre	16.51	1.0000	16.51	_____
Tractors	acre	21.36	1.0000	21.36	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____

TOTAL FIXED EXPENSES				124.10	_____

TOTAL SPECIFIED EXPENSES				643.75	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.**The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	53.0000	671.51	_____
TOTAL INCOME				671.51	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	108.44	1.0000	108.44	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	17.94	0.4566	8.18	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL	gal	3.44	16.7057	57.43	_____
REPAIR & MAINTENANCE	acre	28.94	1.0000	28.94	_____
INTEREST ON OP. CAP.	acre	22.51	1.0000	22.51	_____
TOTAL DIRECT EXPENSES				519.65	_____
RETURNS ABOVE DIRECT EXPENSES				151.86	_____
TOTAL FIXED EXPENSES				124.10	_____
TOTAL SPECIFIED EXPENSES				643.75	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				27.76	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Nov		0.06	0.06	0.06	0.05
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Valor SX	oz					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					53.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.45	0.42	0.83	0.22

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 13.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00					0.50	8.50		8.50
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Valor SX	oz	6.12					0.38	6.50		6.50
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50					2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.05	1.22	1.66	2.88
Enlist Duo	pt	20.72					0.85	21.57		21.57
Dual Magnum	pt	10.75					0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.22	8.33		8.33
Miravis Top	oz	20.82					0.57	21.39		21.39
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	14.31					0.10	14.41		14.41
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
Contour Flood Irr.	acre	2.25	43.91	15.89	6.45		1.92	70.42	70.30	140.72
TOTALS		395.07	57.43	28.94	15.70	0.00	22.51	519.65	124.10	643.75

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	8.11	16.22	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	29.13	0.00	0.00	71.31	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.09	0.00	0.00	0.45	0.00	0.00	3.09	2.57	1.83	1.83	0.22	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.26	0.00	0.00	0.51	0.00	0.00	3.21	15.34	14.35	14.35	0.38	6.03
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.21	0.00	0.00	4.15	9.50	3.25	3.25	0.10	6.28
INTEREST ON OP. CAP.	10.09	0.00	0.00	1.96	0.00	0.00	6.45	1.29	1.33	0.69	0.49	0.21
TOTAL DIRECT EXPENSES	132.42	0.00	0.00	33.58	0.00	0.00	163.29	38.95	50.02	34.42	36.52	30.45
NET INCOME	-132.42	0.00	0.00	-33.58	0.00	0.00	-163.29	-38.95	-50.02	-34.42	-36.52	641.06
NET INCOME TO DATE	-132.42	-132.42	-132.42	-166.00	-166.00	-166.00	-329.29	-368.24	-418.26	-452.68	-489.20	151.86

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-260	-243	-227	-210	-193	-176	-159	-143	-126	-109	-92
			-384	-367	-351	-334	-317	-300	-284	-267	-250	-233	-216
60	31.80	bu	-211	-191	-171	-151	-131	-110	-90	-70	-50	-30	-10
			-335	-315	-295	-275	-255	-235	-214	-194	-174	-154	-134
70	37.10	bu	-162	-139	-115	-92	-68	-45	-21	1	25	48	72
			-286	-263	-239	-216	-192	-169	-145	-122	-98	-75	-51
80	42.40	bu	-113	-87	-60	-33	-6	20	47	74	101	127	154
			-237	-211	-184	-157	-130	-103	-76	-49	-23	3	30
90	47.70	bu	-64	-34	-4	25	55	86	116	146	176	207	237
			-189	-158	-128	-98	-68	-37	-7	22	52	82	113
100	53.00	bu	-16	17	51	84	118	151	185	219	252	286	319
			-140	-106	-72	-39	-5	27	61	94	128	162	195
110	58.30	bu	32	69	106	143	180	217	254	291	328	365	402
			-91	-54	-17	19	56	93	130	167	204	241	278
120	63.60	bu	81	122	162	202	242	283	323	363	404	444	484
			-42	-1	38	78	118	159	199	239	280	320	360
130	68.90	bu	130	174	218	261	305	348	392	436	479	523	567
			6	50	93	137	181	224	268	312	355	399	443
140	74.20	bu	179	226	273	320	367	414	461	508	555	602	649
			55	102	149	196	243	290	337	384	431	478	525
150	79.50	bu	228	278	329	379	430	480	530	581	631	681	732
			104	154	205	255	305	356	406	457	507	557	608

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 2023 input prices.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____
TOTAL DIRECT EXPENSES				474.29	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				571.89	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____
TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____
TOTAL DIRECT EXPENSES				474.29	_____
RETURNS ABOVE DIRECT EXPENSES				159.21	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				571.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				61.61	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
							-------	-------	-------	-------
TOTALS							0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 14.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15		0.30	9.09	12.51	21.60
Soybean Enlist E3	lb	53.50					1.84	55.34		55.34
CruiserMaxx Vibrance	oz	12.21					0.42	12.63		12.63
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	24.00					0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84					0.54	16.38		16.38
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44		0.03	1.19	1.66	2.85
Enlist Duo	pt	20.72					0.57	21.29		21.29
Dual Magnum	pt	10.75					0.30	11.05		11.05
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Miravis Top	oz	20.82					0.43	21.25		21.25
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Prevathon	oz	14.70					0.30	15.00		15.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.58					0.07	3.65		3.65
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84		0.09	13.56	24.45	38.01
Haul Soybeans	bu	13.50					0.09	13.59		13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71		0.02	2.41	2.53	4.94
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47		1.97	70.87	56.45	127.32
TOTALS		361.06	65.67	22.43	6.61	0.00	18.52	474.29	97.60	571.89

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.19	0.49	0.04	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	4.98	1.55	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	149.57	57.71	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-149.57	-57.71	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-280.94	-338.65	-428.40	-444.73	159.21

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	25.00	bu	-229	-214	-198	-182	-166	-150	-134	-119	-103	-87	-71
			-327	-311	-295	-280	-264	-248	-232	-216	-200	-184	-169
60	30.00	bu	-183	-164	-145	-126	-107	-88	-69	-50	-31	-12	6
			-281	-262	-243	-224	-205	-186	-167	-148	-129	-110	-91
70	35.00	bu	-137	-115	-93	-71	-48	-26	-4	17	39	61	84
			-235	-213	-190	-168	-146	-124	-102	-80	-57	-35	-13
80	40.00	bu	-91	-66	-40	-15	9	35	60	85	111	136	161
			-189	-163	-138	-113	-87	-62	-37	-11	13	38	64
90	45.00	bu	-45	-16	11	40	68	97	125	154	182	211	239
			-142	-114	-85	-57	-28	-0	28	56	85	113	142
100	50.00	bu	0	32	64	95	127	159	190	222	254	285	317
			-96	-65	-33	-1	29	61	93	124	156	188	219
110	55.00	bu	46	81	116	151	186	221	256	290	325	360	395
			-50	-15	19	53	88	123	158	193	228	262	297
120	60.00	bu	93	131	169	207	245	283	321	359	397	435	473
			-4	33	71	109	147	185	223	261	299	337	375
130	65.00	bu	139	180	221	262	304	345	386	427	468	509	551
			41	82	124	165	206	247	288	329	371	412	453
140	70.00	bu	185	229	274	318	362	407	451	495	540	584	628
			87	132	176	220	265	309	353	398	442	486	531
150	75.00	bu	231	279	326	374	421	469	516	564	611	659	706
			134	181	229	276	324	371	419	466	514	561	609

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 2023 input prices.

Table 15.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____

TOTAL DIRECT EXPENSES				366.76	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____

TOTAL FIXED EXPENSES				41.15	_____

TOTAL SPECIFIED EXPENSES				407.91	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 15.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____
TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____
TOTAL DIRECT EXPENSES				366.76	_____
RETURNS ABOVE DIRECT EXPENSES				-50.01	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				407.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-91.16	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 15.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
							---	---	---	---
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 15.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15		0.30	9.09	12.51	21.60
Soybean Enlist E3	lb	53.50					1.84	55.34		55.34
CruiserMaxx Vibrance	oz	12.21					0.42	12.63		12.63
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	24.00					0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84					0.54	16.38		16.38
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44		0.03	1.19	1.66	2.85
Enlist Duo	pt	20.72					0.57	21.29		21.29
Dual Magnum	pt	10.75					0.30	11.05		11.05
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Prevathon	oz	14.70					0.30	15.00		15.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.58					0.07	3.65		3.65
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84		0.09	13.56	24.45	38.01
Haul Soybeans	bu	6.75					0.05	6.80		6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71		0.02	2.41	2.53	4.94
TOTALS		325.05	9.24	10.43	6.14	0.00	15.90	366.76	41.15	407.91

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 15.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.44	0.00	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.03	0.90	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	121.24	33.53	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-121.24	-33.53	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-252.26	-285.79	-327.66	-343.99	-50.01

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-244	-236	-228	-220	-212	-204	-197	-189	-181	-173	-165
			-285	-277	-269	-261	-254	-246	-238	-230	-222	-214	-206
60	15.00	bu	-221	-212	-202	-192	-183	-173	-164	-154	-145	-135	-126
			-262	-253	-243	-234	-224	-215	-205	-196	-186	-177	-167
70	17.50	bu	-198	-187	-176	-165	-154	-142	-131	-120	-109	-98	-87
			-239	-228	-217	-206	-195	-184	-173	-161	-150	-139	-128
80	20.00	bu	-175	-162	-150	-137	-124	-112	-99	-86	-73	-61	-48
			-216	-203	-191	-178	-165	-153	-140	-127	-115	-102	-89
90	22.50	bu	-152	-138	-123	-109	-95	-81	-66	-52	-38	-23	-9
			-193	-179	-164	-150	-136	-122	-107	-93	-79	-65	-50
100	25.00	bu	-129	-113	-97	-81	-65	-50	-34	-18	-2	13	29
			-170	-154	-138	-122	-106	-91	-75	-59	-43	-27	-11
110	27.50	bu	-106	-88	-71	-53	-36	-19	-1	15	33	50	68
			-147	-129	-112	-95	-77	-60	-42	-25	-7	9	26
120	30.00	bu	-83	-64	-45	-26	-7	11	30	49	68	88	107
			-124	-105	-86	-67	-48	-29	-10	8	27	46	65
130	32.50	bu	-59	-39	-18	1	22	42	63	84	104	125	145
			-101	-80	-59	-39	-18	1	22	43	63	84	104
140	35.00	bu	-36	-14	7	29	51	73	96	118	140	162	184
			-78	-55	-33	-11	10	32	54	77	99	121	143
150	37.50	bu	-13	9	33	57	81	104	128	152	176	199	223
			-54	-31	-7	16	40	63	87	111	135	158	182

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 2023 input prices.

Table 16.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2209	3.96	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL					
Tractors	gal	3.44	3.4114	11.74	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
INTEREST ON OP. CAP.	acre	21.18	1.0000	21.18	_____

TOTAL DIRECT EXPENSES				454.04	_____
FIXED EXPENSES					
Implements	acre	18.85	1.0000	18.85	_____
Tractors	acre	19.07	1.0000	19.07	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____

TOTAL FIXED EXPENSES				63.75	_____

TOTAL SPECIFIED EXPENSES				517.79	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 16.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	42.0000	532.14	_____
TOTAL INCOME				532.14	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	124.54	1.0000	124.54	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
OPERATOR LABOR	hour	17.94	0.3295	5.91	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL	gal	3.44	5.1352	17.66	_____
REPAIR & MAINTENANCE	acre	14.62	1.0000	14.62	_____
INTEREST ON OP. CAP.	acre	21.18	1.0000	21.18	_____
TOTAL DIRECT EXPENSES				454.04	_____
RETURNS ABOVE DIRECT EXPENSES				78.10	_____
TOTAL FIXED EXPENSES				63.75	_____
TOTAL SPECIFIED EXPENSES				517.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				14.35	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 16.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
							-------	-------	-------	-------
TOTALS							0.32	0.30	0.39	0.29

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 16.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39		0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59		0.44	5.75	7.82	13.57
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50					2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Engenia	oz	10.24					0.35	10.59		10.59
Dual Magnum	pt	10.75					0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Zidua WG	oz	13.14					0.45	13.59		13.59
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Acephate 90SP	lb	6.19					0.09	6.28		6.28
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	11.34					0.08	11.42		11.42
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
TOTALS		388.80	17.66	14.62	11.78	0.00	21.18	454.04	63.75	517.79

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust,but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 16.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	532.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	50.13	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.07	0.00	0.00	0.00	0.00	0.00	2.19	0.90	0.00	0.00	0.00	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.91	0.00	0.00	0.00	0.00	0.00	2.70	1.02	0.00	0.00	0.00	6.03
REPAIR & MAINTENANCE	3.98	0.00	0.00	0.00	0.00	0.00	3.94	0.42	0.00	0.00	0.00	6.28
INTEREST ON OP. CAP.	10.87	0.00	0.00	0.00	2.43	0.00	4.98	2.03	0.00	0.00	0.68	0.19
TOTAL DIRECT EXPENSES	142.61	0.00	0.00	0.00	46.43	0.00	126.23	61.00	0.00	0.00	50.31	27.46
NET INCOME	-142.61	0.00	0.00	0.00	-46.43	0.00	-126.23	-61.00	0.00	0.00	-50.31	504.68
NET INCOME TO DATE	-142.61	-142.61	-142.61	-142.61	-189.04	-189.04	-315.27	-376.27	-376.27	-376.27	-426.58	78.10

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-248	-235	-222	-208	-195	-182	-168	-155	-142	-129	-115
			-312	-299	-285	-272	-259	-246	-232	-219	-206	-192	-179
60	25.20	bu	-210	-194	-178	-162	-146	-130	-114	-98	-82	-66	-50
			-273	-257	-241	-225	-209	-193	-177	-162	-146	-130	-114
70	29.40	bu	-171	-152	-133	-115	-96	-78	-59	-40	-22	-3	15
			-234	-216	-197	-179	-160	-141	-123	-104	-85	-67	-48
80	33.60	bu	-132	-111	-89	-68	-47	-26	-4	16	37	59	80
			-196	-174	-153	-132	-111	-89	-68	-47	-25	-4	16
90	37.80	bu	-93	-69	-45	-21	2	26	49	73	97	121	145
			-157	-133	-109	-85	-61	-37	-13	10	34	58	82
100	42.00	bu	-54	-28	-1	24	51	78	104	131	157	184	211
			-118	-92	-65	-38	-12	14	40	67	94	120	147
110	46.20	bu	-16	13	42	71	100	130	159	188	217	247	276
			-79	-50	-21	7	37	66	95	124	154	183	212
120	50.40	bu	22	54	86	118	150	182	214	246	278	309	341
			-41	-9	22	54	86	118	150	182	214	246	278
130	54.60	bu	61	95	130	165	199	234	268	303	338	372	407
			-2	32	66	101	135	170	205	239	274	308	343
140	58.80	bu	100	137	174	211	249	286	323	360	398	435	472
			36	73	110	148	185	222	259	297	334	371	408
150	63.00	bu	138	178	218	258	298	338	378	418	458	498	538
			75	115	154	194	234	274	314	354	394	434	474

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 2023 input prices.

Table 17.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.0000	40.55	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	60.0000	16.20	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3601	6.46	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL					
Tractors	gal	3.44	5.0744	17.46	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
Roll-Out Pipe Irr.	gal	3.44	7.3316	25.23	_____
REPAIR & MAINTENANCE					
Implements	acre	8.14	1.0000	8.14	_____
Tractors	acre	3.70	1.0000	3.70	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	23.74	1.0000	23.74	_____

TOTAL DIRECT EXPENSES				545.87	_____
FIXED EXPENSES					
Implements	acre	23.72	1.0000	23.72	_____
Tractors	acre	28.53	1.0000	28.53	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____

TOTAL FIXED EXPENSES				152.55	_____

TOTAL SPECIFIED EXPENSES				698.42	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 17.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	60.0000	760.20	_____
TOTAL INCOME				760.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.55	1.0000	40.55	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	124.54	1.0000	124.54	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	16.20	1.0000	16.20	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.4687	8.41	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL	gal	3.44	14.1298	48.61	_____
REPAIR & MAINTENANCE	acre	24.12	1.0000	24.12	_____
INTEREST ON OP. CAP.	acre	23.74	1.0000	23.74	_____
TOTAL DIRECT EXPENSES				545.87	_____
RETURNS ABOVE DIRECT EXPENSES				214.33	_____
TOTAL FIXED EXPENSES				152.55	_____
TOTAL SPECIFIED EXPENSES				698.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				61.78	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 17.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					60.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.46	0.44	0.89	0.35

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 17.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39		0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59		0.44	5.75	7.82	13.57
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07		0.56	7.39	8.08	15.47
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50					2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Engenia	oz	10.24					0.35	10.59		10.59
Dual Magnum	pt	10.75					0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
Zidua WG	oz	13.14					0.45	13.59		13.59
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Miravis Top	oz	20.82					0.43	21.25		21.25
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Acephate 90SP	lb	6.19					0.09	6.28		6.28
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	16.20					0.11	16.31		16.31
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
Roll-Out Pipe Irr.	acre	7.92	27.73	7.96	4.71		1.36	49.68	80.72	130.40
TOTALS		430.84	48.61	24.12	18.56	0.00	23.74	545.87	152.55	698.42

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 17.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	760.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	50.13	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.19	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.82	0.00	0.00	0.00	0.00	0.00	2.19	1.13	2.89	0.23	0.00	4.30
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	12.41	0.00	0.00	0.00	0.00	0.00	2.70	1.02	17.48	8.41	0.00	6.59
REPAIR & MAINTENANCE	5.91	0.00	0.00	0.00	0.00	0.00	3.94	0.42	5.98	1.40	0.00	6.47
INTEREST ON OP. CAP.	11.62	0.00	0.00	0.00	2.43	0.00	4.98	2.04	0.95	0.81	0.68	0.23
TOTAL DIRECT EXPENSES	152.54	0.00	0.00	0.00	46.43	0.00	126.23	61.24	35.22	40.11	50.31	33.79
NET INCOME	-152.54	0.00	0.00	0.00	-46.43	0.00	-126.23	-61.24	-35.22	-40.11	-50.31	726.41
NET INCOME TO DATE	-152.54	-152.54	-152.54	-152.54	-198.97	-198.97	-325.20	-386.44	-421.66	-461.77	-512.08	214.33

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-252	-233	-214	-195	-176	-157	-138	-119	-100	-81	-62
			-405	-386	-367	-348	-329	-310	-291	-272	-253	-234	-215
60	36.00	bu	-197	-174	-151	-128	-106	-83	-60	-37	-14	7	30
			-349	-327	-304	-281	-258	-235	-212	-190	-167	-144	-121
70	42.00	bu	-141	-115	-88	-62	-35	-8	17	44	70	97	124
			-294	-267	-241	-214	-187	-161	-134	-108	-81	-54	-28
80	48.00	bu	-86	-56	-25	4	35	65	95	126	156	187	217
			-239	-208	-178	-147	-117	-86	-56	-26	4	34	65
90	54.00	bu	-31	3	37	71	105	139	174	208	242	276	310
			-183	-149	-115	-81	-46	-12	21	55	90	124	158
100	60.00	bu	24	62	100	138	176	214	252	290	328	366	404
			-128	-90	-52	-14	23	61	99	137	175	213	251
110	66.00	bu	79	121	163	205	246	288	330	372	414	455	497
			-72	-31	10	52	94	136	177	219	261	303	345
120	72.00	bu	135	180	226	271	317	363	408	454	499	545	591
			-17	28	73	119	164	210	256	301	347	393	438
130	78.00	bu	190	239	289	338	388	437	486	536	585	635	684
			37	87	136	186	235	284	334	383	433	482	532
140	84.00	bu	245	299	352	405	458	511	565	618	671	724	777
			93	146	199	252	306	359	412	465	518	572	625
150	90.00	bu	301	358	415	472	529	586	643	700	757	814	871
			148	205	262	319	376	433	490	547	604	661	718

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 2023 input prices.

Table 18.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3362	6.02	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL					
Tractors	gal	3.44	3.8348	13.17	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
Contour Flood Irr.	gal	3.44	10.9974	37.83	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	2.75	1.0000	2.75	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	22.57	1.0000	22.57	_____
TOTAL DIRECT EXPENSES				521.23	_____
FIXED EXPENSES					
Implements	acre	16.51	1.0000	16.51	_____
Tractors	acre	21.36	1.0000	21.36	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____
TOTAL FIXED EXPENSES				124.10	_____
TOTAL SPECIFIED EXPENSES				645.33	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 18.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	53.0000	671.51	_____
TOTAL INCOME				671.51	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	105.96	1.0000	105.96	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	17.94	0.4566	8.18	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL	gal	3.44	16.7057	57.43	_____
REPAIR & MAINTENANCE	acre	28.94	1.0000	28.94	_____
INTEREST ON OP. CAP.	acre	22.57	1.0000	22.57	_____
TOTAL DIRECT EXPENSES				521.23	_____
RETURNS ABOVE DIRECT EXPENSES				150.28	_____
TOTAL FIXED EXPENSES				124.10	_____
TOTAL SPECIFIED EXPENSES				645.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				26.18	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 18.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Nov		0.06	0.06	0.06	0.05
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Valor SX	oz					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					53.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.45	0.42	0.83	0.22

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 18.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Disk Harrow	32'		3.26	2.20	2.09		0.62	8.17	9.33	17.50
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00					0.50	8.50		8.50
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Valor SX	oz	6.12					0.38	6.50		6.50
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50					2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21					0.50	12.71		12.71
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	24.00					0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49		16.49
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.05	1.22	1.66	2.88
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Engenia	oz	10.24					0.42	10.66		10.66
Dual Magnum	pt	10.75					0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.22	8.33		8.33
Miravis Top	oz	20.82					0.57	21.39		21.39
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
Gramoxone SL	oz	5.28					0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17					0.07	5.24		5.24
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62	24.45	38.07
Haul Soybeans	bu	14.31					0.10	14.41		14.41
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42	2.53	4.95
Contour Flood Irr.	acre	2.25	43.91	15.89	6.45		1.92	70.42	70.30	140.72
TOTALS		396.59	57.43	28.94	15.70	0.00	22.57	521.23	124.10	645.33

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust,but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 18.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	8.11	16.22	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	29.13	0.00	0.00	68.83	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.09	0.00	0.00	0.45	0.00	0.00	3.09	2.57	1.83	1.83	0.22	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.26	0.00	0.00	0.51	0.00	0.00	3.21	15.34	14.35	14.35	0.38	6.03
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.21	0.00	0.00	4.15	9.50	3.25	3.25	0.10	6.28
INTEREST ON OP. CAP.	10.09	0.00	0.00	1.96	0.00	0.00	6.51	1.29	1.33	0.69	0.49	0.21
TOTAL DIRECT EXPENSES	132.42	0.00	0.00	33.58	0.00	0.00	164.87	38.95	50.02	34.42	36.52	30.45
NET INCOME	-132.42	0.00	0.00	-33.58	0.00	0.00	-164.87	-38.95	-50.02	-34.42	-36.52	641.06
NET INCOME TO DATE	-132.42	-132.42	-132.42	-166.00	-166.00	-166.00	-330.87	-369.82	-419.84	-454.26	-490.78	150.28

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-262	-245	-228	-211	-195	-178	-161	-144	-127	-111	-94
			-386	-369	-352	-335	-319	-302	-285	-268	-252	-235	-218
60	31.80	bu	-213	-193	-172	-152	-132	-112	-92	-72	-52	-31	-11
			-337	-317	-297	-276	-256	-236	-216	-196	-176	-156	-135
70	37.10	bu	-164	-140	-117	-93	-70	-46	-23	0	23	47	70
			-288	-264	-241	-217	-194	-170	-147	-123	-100	-76	-53
80	42.40	bu	-115	-88	-61	-34	-8	18	45	72	99	126	153
			-239	-212	-185	-158	-132	-105	-78	-51	-24	2	29
90	47.70	bu	-66	-36	-6	24	54	84	114	145	175	205	235
			-190	-160	-130	-99	-69	-39	-9	20	51	81	111
100	53.00	bu	-17	15	49	83	116	150	183	217	251	284	318
			-141	-108	-74	-40	-7	26	59	93	126	160	194
110	58.30	bu	31	68	105	142	179	215	252	289	326	363	400
			-92	-55	-18	18	54	91	128	165	202	239	276
120	63.60	bu	80	120	160	201	241	281	321	362	402	442	483
			-43	-3	36	77	117	157	197	238	278	318	359
130	68.90	bu	129	172	216	260	303	347	391	434	478	522	565
			5	48	92	136	179	223	266	310	354	397	441
140	74.20	bu	178	225	272	319	366	413	460	507	554	601	648
			53	100	148	195	242	289	336	383	430	477	524
150	79.50	bu	227	277	327	378	428	478	529	579	629	680	730
			102	153	203	254	304	354	405	455	505	556	606

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 2023 input prices.

Table 19.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____

TOTAL DIRECT EXPENSES				475.88	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____

TOTAL FIXED EXPENSES				97.60	_____

TOTAL SPECIFIED EXPENSES				573.48	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 19.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____

TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____

TOTAL DIRECT EXPENSES				475.88	_____
RETURNS ABOVE DIRECT EXPENSES				157.62	_____
TOTAL FIXED EXPENSES				97.60	_____

TOTAL SPECIFIED EXPENSES				573.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				60.02	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 19.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
							-------	-------	-------	-------
TOTALS							0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 19.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15		0.30	9.09	12.51	21.60
Soybean Seed RR2X	lb	57.50					1.98	59.48		59.48
CruiserMaxx Vibrance	oz	12.21					0.42	12.63		12.63
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	24.00					0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84					0.54	16.38		16.38
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44		0.03	1.19	1.66	2.85
Glyphosate 3lbs a.e	oz	8.00					0.22	8.22		8.22
Engenia	oz	10.24					0.28	10.52		10.52
Dual Magnum	pt	10.75					0.30	11.05		11.05
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Miravis Top	oz	20.82					0.43	21.25		21.25
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Prevathon	oz	14.70					0.30	15.00		15.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.58					0.07	3.65		3.65
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84		0.09	13.56	24.45	38.01
Haul Soybeans	bu	13.50					0.09	13.59		13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71		0.02	2.41	2.53	4.94
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47		1.97	70.87	56.45	127.32
TOTALS		362.58	65.67	22.43	6.61	0.00	18.59	475.88	97.60	573.48

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 19.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.19	0.49	0.04	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	5.12	1.48	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	153.71	55.16	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-153.71	-55.16	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-285.08	-340.24	-429.99	-446.32	157.62

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	25.00	bu	-231	-215	-199	-184	-168	-152	-136	-120	-104	-88	-73
			-329	-313	-297	-281	-265	-249	-234	-218	-202	-186	-170
60	30.00	bu	-185	-166	-147	-128	-109	-90	-71	-52	-33	-14	4
			-282	-263	-244	-225	-206	-187	-168	-149	-130	-111	-92
70	35.00	bu	-139	-117	-94	-72	-50	-28	-6	15	38	60	82
			-236	-214	-192	-170	-148	-125	-103	-81	-59	-37	-15
80	40.00	bu	-93	-67	-42	-17	8	33	58	84	109	134	160
			-190	-165	-139	-114	-89	-63	-38	-13	12	37	62
90	45.00	bu	-46	-18	10	38	67	95	124	152	181	209	238
			-144	-116	-87	-58	-30	-1	26	55	83	112	140
100	50.00	bu	-0	30	62	94	125	157	189	220	252	284	315
			-98	-66	-35	-3	28	60	91	123	155	186	218
110	55.00	bu	45	80	115	149	184	219	254	289	324	358	393
			-52	-17	17	52	87	122	156	191	226	261	296
120	60.00	bu	91	129	167	205	243	281	319	357	395	433	471
			-6	31	69	107	145	184	222	260	298	336	374
130	65.00	bu	137	178	220	261	302	343	384	425	467	508	549
			40	81	122	163	204	245	287	328	369	410	451
140	70.00	bu	183	228	272	316	361	405	449	494	538	582	627
			86	130	174	219	263	307	352	396	441	485	529
150	75.00	bu	230	277	325	372	420	467	515	562	610	657	705
			132	179	227	274	322	369	417	465	512	560	607

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 2023 input prices.

Table 20.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____

TOTAL DIRECT EXPENSES				368.35	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____

TOTAL FIXED EXPENSES				41.15	_____

TOTAL SPECIFIED EXPENSES				409.50	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 20.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____
TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____
TOTAL DIRECT EXPENSES				368.35	_____
RETURNS ABOVE DIRECT EXPENSES				-51.60	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				409.50	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-92.75	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 20.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 20.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	21.65					1.79	23.44		23.44
Custom Apply Fert	acre	7.50					0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15					2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12		52.12
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15		0.30	9.09	12.51	21.60
Soybean Seed RR2X	lb	57.50					1.98	59.48		59.48
CruiserMaxx Vibrance	oz	12.21					0.42	12.63		12.63
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	24.00					0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84					0.54	16.38		16.38
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44		0.03	1.19	1.66	2.85
Glyphosate 3lbs a.e	oz	8.00					0.22	8.22		8.22
Engenia	oz	10.24					0.28	10.52		10.52
Dual Magnum	pt	10.75					0.30	11.05		11.05
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Acephate 90SP	lb	6.19					0.13	6.32		6.32
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Prevathon	oz	14.70					0.30	15.00		15.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.58					0.07	3.65		3.65
Incidental Pest										
App by Air (5 gal)	appl	8.11					0.11	8.22		8.22
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84		0.09	13.56	24.45	38.01
Haul Soybeans	bu	6.75					0.05	6.80		6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71		0.02	2.41	2.53	4.94
TOTALS		326.57	9.24	10.43	6.14	0.00	15.97	368.35	41.15	409.50

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre.

Table 20.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.44	0.00	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.17	0.83	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	125.38	30.98	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-125.38	-30.98	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-256.40	-287.38	-329.25	-345.58	-51.60

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-246	-238	-230	-222	-214	-206	-198	-190	-182	-174	-166
			-287	-279	-271	-263	-255	-247	-239	-231	-223	-216	-208
60	15.00	bu	-223	-213	-204	-194	-185	-175	-166	-156	-147	-137	-128
			-264	-254	-245	-235	-226	-216	-207	-197	-188	-178	-169
70	17.50	bu	-200	-188	-177	-166	-155	-144	-133	-122	-111	-100	-89
			-241	-230	-218	-207	-196	-185	-174	-163	-152	-141	-130
80	20.00	bu	-176	-164	-151	-138	-126	-113	-100	-88	-75	-62	-50
			-218	-205	-192	-180	-167	-154	-142	-129	-116	-104	-91
90	22.50	bu	-153	-139	-125	-111	-96	-82	-68	-54	-39	-25	-11
			-195	-180	-166	-152	-137	-123	-109	-95	-80	-66	-52
100	25.00	bu	-130	-114	-99	-83	-67	-51	-35	-19	-4	11	27
			-171	-156	-140	-124	-108	-92	-76	-61	-45	-29	-13
110	27.50	bu	-107	-90	-72	-55	-38	-20	-3	14	31	49	66
			-148	-131	-114	-96	-79	-61	-44	-26	-9	7	25
120	30.00	bu	-84	-65	-46	-27	-8	10	29	48	67	86	105
			-125	-106	-87	-68	-49	-30	-11	7	26	45	64
130	32.50	bu	-61	-40	-20	0	20	41	61	82	103	123	144
			-102	-82	-61	-40	-20	0	20	41	62	82	103
140	35.00	bu	-38	-16	5	28	50	72	94	116	138	161	183
			-79	-57	-35	-13	9	31	53	75	97	119	142
150	37.50	bu	-15	8	32	55	79	103	127	150	174	198	222
			-56	-32	-9	14	38	62	85	109	133	157	181

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 2023 input prices.

Table 21.A Estimated costs per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	0.2000	1.37	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.9570	76.81	_____
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
Fert 10-34-0	gal	4.66	4.0000	18.64	_____
Zinc Plus	pt	3.50	2.0000	7.00	_____
UAN + Sulfur (28%)	gal	3.46	32.1712	111.31	_____
UAN (32%)	gal	4.00	30.0000	120.00	_____
Urea, Solid (46% N)	cwt	31.69	1.0000	31.69	_____
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2800	0.72	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.61	34.0000	122.74	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
App Fert by Air	cwt	8.00	1.0000	8.00	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4484	8.05	_____
Harvesters	hour	17.94	0.1277	2.29	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1462	1.33	_____
UNALLOCATED LABOR	hour	17.95	0.4478	8.04	_____
DIESEL FUEL					
Tractors	gal	3.44	5.0106	17.24	_____
Harvesters	gal	3.44	1.7419	5.99	_____
Roll-Out Pipe Irr.	gal	3.44	10.5901	36.44	_____
REPAIR & MAINTENANCE					
Implements	acre	13.41	1.0000	13.41	_____
Tractors	acre	4.12	1.0000	4.12	_____
Harvesters	acre	6.16	1.0000	6.16	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	40.86	1.0000	40.86	_____

TOTAL DIRECT EXPENSES				939.99	_____
FIXED EXPENSES					
Implements	acre	27.88	1.0000	27.88	_____
Tractors	acre	31.86	1.0000	31.86	_____
Harvesters	acre	29.49	1.0000	29.49	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____

TOTAL FIXED EXPENSES				163.70	_____

TOTAL SPECIFIED EXPENSES				1103.69	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.B Summary of estimated costs and returns per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____

TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.59	1.0000	17.59	_____
FERTILIZERS	acre	419.75	1.0000	419.75	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	0.72	1.0000	0.72	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	122.74	1.0000	122.74	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	15.50	1.0000	15.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1462	1.33	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	17.94	0.5761	10.34	_____
UNALLOCATED LABOR	hour	17.95	0.4478	8.04	_____
DIESEL FUEL	gal	3.44	17.3427	59.67	_____
REPAIR & MAINTENANCE	acre	30.85	1.0000	30.85	_____
INTEREST ON OP. CAP.	acre	40.86	1.0000	40.86	_____

TOTAL DIRECT EXPENSES				939.99	_____
RETURNS ABOVE DIRECT EXPENSES				184.21	_____
TOTAL FIXED EXPENSES				163.70	_____

TOTAL SPECIFIED EXPENSES				1103.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				20.51	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.C Estimated resource use for field operations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.9570				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Plant & Pre-Folding	16R-30	MFWD 225	0.050	1.00	Mar		0.05	0.05	0.10	0.04
Corn Seed BtRR	thous					34.0000				
Fert 10-34-0	gal					4.0000				
Zinc Plus	pt					2.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					32.1712				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN (32%)	gal					30.0000				
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.57	0.57	1.10	0.44

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.D Estimated costs for field operations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	76.81					6.34	83.15		83.15
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13		0.58	7.57	10.50	18.07
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Plant & Pre-Folding	16R-30		2.02	3.86	2.19		0.39	8.46	11.92	20.38
Corn Seed BtRR	thous	122.74					5.91	128.65		128.65
Fert 10-34-0	gal	18.64					0.90	19.54		19.54
Zinc Plus	pt	7.00					0.34	7.34		7.34
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	111.31					4.59	115.90		115.90
Spray (Broadcast)	60'		1.12	0.52	1.10		0.11	2.85	2.48	5.33
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Corn Consultant	acre	6.00					0.21	6.21		6.21
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04		0.29	8.73	7.99	16.72
UAN (32%)	gal	120.00					4.13	124.13		124.13
App Fert by Air	cwt	8.00					0.22	8.22		8.22
Urea, Solid (46% N)	cwt	31.69					0.87	32.56		32.56
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Trivapro	oz	20.28					0.42	20.70		20.70
Header - Corn	8R-30		5.99	9.32	4.35		0.14	19.80	35.41	55.21
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	50.60					0.35	50.95		50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
Roll-Out Pipe Irr.	acre	7.92	38.94	7.96	4.94		1.69	61.45	80.72	142.17
TOTALS		785.37	59.67	30.85	23.24	0.00	40.86	939.99	163.70	1103.69

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	0.00	8.11	0.00	0.00
FERTILIZERS	131.11	0.00	0.00	0.00	0.00	25.64	111.31	120.00	31.69	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	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	122.74	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	8.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.63	0.00	0.00	0.00	0.00	2.19	1.10	3.27	3.12	0.23	0.68	8.02
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	5.45	0.00	0.00	0.00	0.00	2.02	1.12	3.13	27.99	9.11	0.56	10.29
REPAIR & MAINTENANCE	3.51	0.00	0.00	0.00	0.00	3.86	0.52	2.27	6.33	1.05	0.19	13.12
INTEREST ON OP. CAP.	15.78	0.00	0.00	0.00	2.16	7.54	6.93	4.71	2.35	0.80	0.02	0.57
TOTAL DIRECT EXPENSES	207.10	0.00	0.00	0.00	41.42	163.99	174.98	141.47	87.40	39.58	1.45	82.60
NET INCOME	-207.10	0.00	0.00	0.00	-41.42	-163.99	-174.98	-141.47	-87.40	-39.58	-1.45	1041.60
NET INCOME TO DATE	-207.10	-207.10	-207.10	-207.10	-248.52	-412.51	-587.49	-728.96	-816.36	-855.94	-857.39	184.21

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 21.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-492	-464	-436	-408	-380	-352	-324	-296	-268	-239	-211
			-656	-628	-600	-572	-544	-516	-488	-459	-431	-403	-375
60	132.00	bu	-413	-379	-346	-312	-278	-245	-211	-177	-143	-110	-76
			-577	-543	-509	-476	-442	-408	-375	-341	-307	-273	-240
70	154.00	bu	-334	-295	-255	-216	-177	-137	-98	-59	-19	19	58
			-498	-458	-419	-380	-340	-301	-262	-222	-183	-144	-104
80	176.00	bu	-255	-210	-165	-120	-75	-30	14	59	104	149	194
			-418	-374	-329	-284	-239	-194	-149	-104	-59	-14	30
90	198.00	bu	-176	-125	-74	-24	26	76	127	178	228	279	329
			-339	-289	-238	-187	-137	-86	-36	14	64	115	166
100	220.00	bu	-96	-40	15	71	128	184	240	296	352	409	465
			-260	-204	-148	-91	-35	20	76	132	189	245	301
110	242.00	bu	-17	44	106	167	229	291	353	415	477	538	600
			-181	-119	-57	4	66	127	189	251	313	375	436
120	264.00	bu	61	129	196	263	331	398	466	533	601	668	736
			-102	-34	32	100	167	235	302	370	437	504	572
130	286.00	bu	140	213	286	360	433	506	579	652	725	798	871
			-22	50	123	196	269	342	415	488	561	634	707
140	308.00	bu	220	298	377	456	534	613	692	770	849	928	1006
			56	135	213	292	371	449	528	607	685	764	843
150	330.00	bu	299	383	467	552	636	720	805	889	973	1058	1142
			135	219	304	388	472	557	641	725	810	894	978

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 2023 input prices.

Table 22.A Estimated costs per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
App by Air (3 gal)	appl	6.87	0.2000	1.37	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.6300	63.98	_____
Potash (60% K2O)	cwt	36.20	1.2500	45.25	_____
Fert 10-34-0	gal	4.66	4.0000	18.64	_____
Zinc Plus	pt	3.50	2.0000	7.00	_____
UAN + Sulfur (28%)	gal	3.46	19.3063	66.80	_____
UAN (32%)	gal	4.00	36.7200	146.88	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2800	0.72	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.61	28.0000	101.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3457	6.21	_____
Harvesters	hour	17.94	0.1009	1.81	_____
HAND LABOR					
Implements	hour	9.06	0.1354	1.22	_____
UNALLOCATED LABOR	hour	17.93	0.4020	7.21	_____
DIESEL FUEL					
Tractors	gal	3.44	4.0040	13.78	_____
Harvesters	gal	3.44	1.3770	4.74	_____
REPAIR & MAINTENANCE					
Implements	acre	10.53	1.0000	10.53	_____
Tractors	acre	3.34	1.0000	3.34	_____
Harvesters	acre	4.87	1.0000	4.87	_____
INTEREST ON OP. CAP.	acre	33.45	1.0000	33.45	_____

TOTAL DIRECT EXPENSES				723.86	_____
FIXED EXPENSES					
Implements	acre	20.49	1.0000	20.49	_____
Tractors	acre	25.82	1.0000	25.82	_____
Harvesters	acre	23.31	1.0000	23.31	_____

TOTAL FIXED EXPENSES				69.62	_____

TOTAL SPECIFIED EXPENSES				793.48	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 22.B Summary of estimated costs and returns per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	170.0000	868.70	_____
TOTAL INCOME				868.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.48	1.0000	9.48	_____
FERTILIZERS	acre	348.55	1.0000	348.55	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	0.72	1.0000	0.72	_____
SEED/PLANTS	acre	101.08	1.0000	101.08	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1354	1.22	_____
OPERATOR LABOR	hour	17.94	0.4466	8.02	_____
UNALLOCATED LABOR	hour	17.93	0.4020	7.21	_____
DIESEL FUEL	gal	3.44	5.3810	18.52	_____
REPAIR & MAINTENANCE	acre	18.74	1.0000	18.74	_____
INTEREST ON OP. CAP.	acre	33.45	1.0000	33.45	_____
TOTAL DIRECT EXPENSES				723.86	_____
RETURNS ABOVE DIRECT EXPENSES				144.84	_____
TOTAL FIXED EXPENSES				69.62	_____
TOTAL SPECIFIED EXPENSES				793.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				75.22	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 22.C Estimated resource use for field operations, per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	Mar		0.05	0.05	0.10	0.04
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	gal					4.0000				
Zinc Plus	pt					2.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					19.3063				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32%)	gal					36.7200				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
							-------	-------	-------	-------
TOTALS							0.44	0.44	0.58	0.40

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 22.D Estimated costs for field operations, per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	63.98					5.28	69.26		69.26
Potash (60% K2O)	cwt	45.25					3.73	48.98		48.98
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13		0.58	7.57	10.50	18.07
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Plant & Pre-Folding	12R-38		2.13	2.66	2.30		0.34	7.43	9.17	16.60
Corn Seed BtRR	thous	101.08					4.86	105.94		105.94
Fert 10-34-0	gal	18.64					0.90	19.54		19.54
Zinc Plus	pt	7.00					0.34	7.34		7.34
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	66.80					2.76	69.56		69.56
Spray (Broadcast)	60'		1.12	0.52	1.10		0.11	2.85	2.48	5.33
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Corn Consultant	acre	6.00					0.21	6.21		6.21
Fert Appl (Liquid)	12R-38		2.06	1.57	1.99		0.19	5.81	5.36	11.17
UAN (32%)	gal	146.88					5.05	151.93		151.93
Header - Corn	8R-38		4.74	7.07	3.44		0.10	15.35	27.43	42.78
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	39.10					0.27	39.37		39.37
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
TOTALS		636.70	18.52	18.74	16.45	0.00	33.45	723.86	69.62	793.48

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 22.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	868.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	0.00	0.00	0.00	0.00
FERTILIZERS	109.23	0.00	0.00	0.00	0.00	25.64	66.80	146.88	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	101.08	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.95	0.00	0.00	0.00	0.00	2.30	1.10	1.99	0.00	0.00	0.00	7.11
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.17	0.00	0.00	0.00	0.00	2.13	1.12	2.06	0.00	0.00	0.00	9.04
REPAIR & MAINTENANCE	3.12	0.00	0.00	0.00	0.00	2.66	0.52	1.57	0.00	0.00	0.00	10.87
INTEREST ON OP. CAP.	13.78	0.00	0.00	0.00	2.16	6.44	5.10	5.52	0.00	0.00	0.00	0.45
TOTAL DIRECT EXPENSES	180.87	0.00	0.00	0.00	41.42	140.25	128.64	166.11	0.00	0.00	0.00	66.57
NET INCOME	-180.87	0.00	0.00	0.00	-41.42	-140.25	-128.64	-166.11	0.00	0.00	0.00	802.13
NET INCOME TO DATE	-180.87	-180.87	-180.87	-180.87	-222.29	-362.54	-491.18	-657.29	-657.29	-657.29	-657.29	144.84

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 22.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, BtRR, 12row 38", 170 bu yield goal
Non-irrigated, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-378	-356	-334	-313	-291	-269	-248	-226	-204	-182	-161
			-448	-426	-404	-382	-361	-339	-317	-296	-274	-252	-230
60	102.00	bu	-317	-291	-265	-239	-212	-186	-160	-134	-108	-82	-56
			-386	-360	-334	-308	-282	-256	-230	-204	-178	-152	-126
70	119.00	bu	-255	-225	-195	-164	-134	-103	-73	-43	-12	17	48
			-325	-295	-264	-234	-203	-173	-143	-112	-82	-51	-21
80	136.00	bu	-194	-160	-125	-90	-55	-21	13	48	83	117	152
			-264	-229	-194	-160	-125	-90	-55	-21	13	48	83
90	153.00	bu	-133	-94	-55	-16	22	61	100	140	179	218	257
			-203	-164	-124	-85	-46	-7	31	70	109	148	187
100	170.00	bu	-72	-28	14	57	101	144	188	231	275	318	362
			-141	-98	-55	-11	31	75	118	162	205	248	292
110	187.00	bu	-11	36	84	132	179	227	275	323	371	418	466
			-80	-32	14	62	110	158	205	253	301	349	397
120	204.00	bu	50	102	154	206	258	310	362	414	467	519	571
			-19	32	84	136	188	241	293	345	397	449	501
130	221.00	bu	111	167	224	280	337	393	450	506	563	619	675
			41	98	154	211	267	324	380	436	493	549	606
140	238.00	bu	172	233	294	354	415	476	537	598	658	719	780
			102	163	224	285	346	406	467	528	589	650	710
150	255.00	bu	233	298	364	429	494	559	624	689	754	820	885
			164	229	294	359	424	489	555	620	685	750	815

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 2023 input prices.

Table 23.A Estimated costs per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	0.2000	1.37	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.9570	76.81	_____
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
Fert 10-34-0	gal	4.66	4.0000	18.64	_____
Zinc Plus	pt	3.50	2.0000	7.00	_____
UAN + Sulfur (28%)	gal	3.46	32.1712	111.31	_____
UAN (32%)	gal	4.00	30.0000	120.00	_____
Urea, Solid (46% N)	cwt	31.69	1.0000	31.69	_____
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2800	0.72	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.61	34.0000	122.74	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
App Fert by Air	cwt	8.00	1.0000	8.00	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3699	6.64	_____
Harvesters	hour	17.94	0.1277	2.29	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1462	1.33	_____
UNALLOCATED LABOR	hour	17.95	0.4478	8.04	_____
DIESEL FUEL					
Tractors	gal	3.44	4.2843	14.74	_____
Harvesters	gal	3.44	1.7419	5.99	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	13.16	1.0000	13.16	_____
Tractors	acre	3.57	1.0000	3.57	_____
Harvesters	acre	6.16	1.0000	6.16	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	41.02	1.0000	41.02	_____

TOTAL DIRECT EXPENSES				942.71	_____
FIXED EXPENSES					
Implements	acre	25.86	1.0000	25.86	_____
Tractors	acre	27.63	1.0000	27.63	_____
Harvesters	acre	29.49	1.0000	29.49	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____

TOTAL FIXED EXPENSES				182.48	_____

TOTAL SPECIFIED EXPENSES				1125.19	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 23.B Summary of estimated costs and returns per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____

TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.59	1.0000	17.59	_____
FERTILIZERS	acre	419.75	1.0000	419.75	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	0.72	1.0000	0.72	_____
SEED/PLANTS	acre	122.74	1.0000	122.74	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	15.50	1.0000	15.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1462	1.33	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.4976	8.93	_____
UNALLOCATED LABOR	hour	17.95	0.4478	8.04	_____
DIESEL FUEL	gal	3.44	17.2274	59.26	_____
REPAIR & MAINTENANCE	acre	44.84	1.0000	44.84	_____
INTEREST ON OP. CAP.	acre	41.02	1.0000	41.02	_____

TOTAL DIRECT EXPENSES				942.71	_____
RETURNS ABOVE DIRECT EXPENSES				181.49	_____
TOTAL FIXED EXPENSES				182.48	_____

TOTAL SPECIFIED EXPENSES				1125.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-0.99	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 23.C Estimated resource use for field operations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.9570				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Plant & Pre-Folding	16R-30	MFWD 225	0.050	1.00	Mar		0.05	0.05	0.10	0.04
Corn Seed BtRR	thous					34.0000				
Fert 10-34-0	gal					4.0000				
Zinc Plus	pt					2.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					32.1712				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN (32%)	gal					30.0000				
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
1/4-mi. Pivot Irr.	acre				Jul	1.0000			0.20	
TOTALS							0.49	0.49	0.84	0.44

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 23.D Estimated costs for field operations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	76.81					6.34	83.15		83.15
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13		0.58	7.57	10.50	18.07
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Plant & Pre-Folding	16R-30		2.02	3.86	2.19		0.39	8.46	11.92	20.38
Corn Seed BtRR	thous	122.74					5.91	128.65		128.65
Fert 10-34-0	gal	18.64					0.90	19.54		19.54
Zinc Plus	pt	7.00					0.34	7.34		7.34
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	111.31					4.59	115.90		115.90
Spray (Broadcast)	60'		1.12	0.52	1.10		0.11	2.85	2.48	5.33
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Corn Consultant	acre	6.00					0.21	6.21		6.21
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04		0.29	8.73	7.99	16.72
UAN (32%)	gal	120.00					4.13	124.13		124.13
App Fert by Air	cwt	8.00					0.22	8.22		8.22
Urea, Solid (46% N)	cwt	31.69					0.87	32.56		32.56
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Trivapro	oz	20.28					0.42	20.70		20.70
Header - Corn	8R-30		5.99	9.32	4.35		0.14	19.80	35.41	55.21
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	50.60					0.35	50.95		50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17	99.50	163.67
TOTALS		777.45	59.26	44.84	20.14	0.00	41.02	942.71	182.48	1125.19

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 23.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	0.00	8.11	0.00	0.00
FERTILIZERS	131.11	0.00	0.00	0.00	0.00	25.64	111.31	120.00	31.69	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	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	122.74	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	8.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.95	0.00	0.00	0.00	0.00	2.19	2.44	3.19	0.20	0.15	0.00	8.02
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	4.17	0.00	0.00	0.00	0.00	2.02	1.12	14.69	15.41	11.56	0.00	10.29
REPAIR & MAINTENANCE	3.12	0.00	0.00	0.00	0.00	3.86	0.52	20.74	1.99	1.49	0.00	13.12
INTEREST ON OP. CAP.	15.59	0.00	0.00	0.00	2.16	7.54	6.98	5.74	1.58	0.86	0.00	0.57
TOTAL DIRECT EXPENSES	204.56	0.00	0.00	0.00	41.42	163.99	176.37	172.45	58.87	42.45	0.00	82.60
NET INCOME	-204.56	0.00	0.00	0.00	-41.42	-163.99	-176.37	-172.45	-58.87	-42.45	0.00	1041.60
NET INCOME TO DATE	-204.56	-204.56	-204.56	-204.56	-245.98	-409.97	-586.34	-758.79	-817.66	-860.11	-860.11	181.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, BtRR, 16-row 30", 220 bu yield goal
Pivot Irrigated, 7.5 ac-in., Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-495	-467	-439	-411	-383	-355	-327	-298	-270	-242	-214
			-678	-650	-621	-593	-565	-537	-509	-481	-453	-425	-397
60	132.00	bu	-416	-382	-348	-315	-281	-247	-214	-180	-146	-112	-79
			-598	-565	-531	-497	-464	-430	-396	-362	-329	-295	-261
70	154.00	bu	-337	-297	-258	-219	-179	-140	-101	-61	-22	16	56
			-519	-480	-441	-401	-362	-322	-283	-244	-204	-165	-126
80	176.00	bu	-258	-213	-168	-123	-78	-33	11	56	101	146	191
			-440	-395	-350	-305	-260	-215	-170	-125	-80	-35	9
90	198.00	bu	-178	-128	-77	-27	23	74	124	175	225	276	327
			-361	-310	-260	-209	-158	-108	-57	-7	43	94	144
100	220.00	bu	-99	-43	12	69	125	181	237	293	350	406	462
			-282	-225	-169	-113	-57	-0	55	111	167	223	280
110	242.00	bu	-20	41	103	165	226	288	350	412	474	536	597
			-202	-140	-79	-17	44	106	168	229	291	353	415
120	264.00	bu	58	126	193	261	328	396	463	531	598	665	733
			-123	-56	11	78	146	213	281	348	416	483	550
130	286.00	bu	138	211	284	357	430	503	576	649	722	795	868
			-44	28	101	174	247	320	394	467	540	613	686
140	308.00	bu	217	296	374	453	532	610	689	768	846	925	1004
			34	113	192	270	349	428	507	585	664	743	821
150	330.00	bu	296	380	465	549	633	718	802	886	971	1055	1139
			114	198	282	367	451	535	619	704	788	872	957

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 2023 input prices.

Table 24.A Estimated costs per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area,
Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	1.2000	8.24	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.9570	76.81	_____
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN + Sulfur (28%)	gal	3.46	32.1712	111.31	_____
UAN (32%)	gal	4.00	30.0000	120.00	_____
Urea, Solid (46% N)	cwt	31.69	1.0000	31.69	_____
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2800	0.72	_____
Intrepid 2F	oz	1.99	4.0000	7.96	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed RR2	thous	4.26	34.0000	144.84	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
App Fert by Air	cwt	8.00	1.0000	8.00	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.6423	11.52	_____
Harvesters	hour	17.94	0.1009	1.81	_____
Self-Propelled	hour	17.94	0.0176	0.32	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1175	1.06	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	17.94	0.6141	11.02	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2557	24.97	_____
Harvesters	gal	3.44	1.3770	4.74	_____
Self-Propelled	gal	3.44	0.1586	0.55	_____
Roll-Out Pipe Irr.	gal	3.44	10.5901	36.44	_____
REPAIR & MAINTENANCE					
Implements	acre	13.79	1.0000	13.79	_____
Tractors	acre	5.99	1.0000	5.99	_____
Harvesters	acre	4.87	1.0000	4.87	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	42.43	1.0000	42.43	_____

TOTAL DIRECT EXPENSES				967.14	_____
FIXED EXPENSES					
Implements	acre	31.95	1.0000	31.95	_____
Tractors	acre	46.33	1.0000	46.33	_____
Harvesters	acre	23.31	1.0000	23.31	_____
Self-Propelled	acre	1.63	1.0000	1.63	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____

TOTAL FIXED EXPENSES				177.69	_____

TOTAL SPECIFIED EXPENSES				1144.83	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 24.B Summary of estimated costs and returns per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area,
Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____
TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.46	1.0000	24.46	_____
FERTILIZERS	acre	394.11	1.0000	394.11	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	8.68	1.0000	8.68	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	144.84	1.0000	144.84	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	15.50	1.0000	15.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1263	1.14	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	17.94	0.7609	13.65	_____
UNALLOCATED LABOR	hour	17.94	0.6141	11.02	_____
DIESEL FUEL	gal	3.44	19.3816	66.70	_____
REPAIR & MAINTENANCE	acre	32.01	1.0000	32.01	_____
INTEREST ON OP. CAP.	acre	42.43	1.0000	42.43	_____
TOTAL DIRECT EXPENSES				967.14	_____
RETURNS ABOVE DIRECT EXPENSES				157.06	_____
TOTAL FIXED EXPENSES				177.69	_____
TOTAL SPECIFIED EXPENSES				1144.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-20.63	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 24.C Estimated resource use for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Subsoiler	3 shank	MFWD 225	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	42'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.9570				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Row Cond./Roll-Fold.	40'	MFWD 225	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Plant - Folding	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					34.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					32.1712				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32%)	gal					30.0000				
Cultivate	12R-38	MFWD 225	0.054	1.00	May		0.05	0.05	0.05	0.04
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.76	0.74	1.27	0.61

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 24.D Estimated costs for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Subsoiler	3 shank		4.07	1.18	3.48		0.72	9.45	8.27	17.72
Disk Harrow	42'		1.86	2.33	1.60		0.48	6.27	8.47	14.74
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	76.81					6.34	83.15		83.15
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13		0.58	7.57	10.50	18.07
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Row Cond./Roll-Fold.	40'		1.87	1.12	1.60		0.22	4.81	5.71	10.52
Plant - Folding	12R-38		1.98	2.28	2.14		0.31	6.71	8.04	14.75
Corn Seed RR2	thous	144.84					6.97	151.81		151.81
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	111.31					4.59	115.90		115.90
Sprayer 600-750gal	60' 175hp		0.55	0.20	0.68		0.06	1.49	1.63	3.12
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
Corn Consultant	acre	6.00					0.21	6.21		6.21
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Fert Appl (Liquid)	12R-38		2.06	1.57	1.99		0.19	5.81	5.36	11.17
UAN (32%)	gal	120.00					4.13	124.13		124.13
Cultivate	12R-38		2.16	1.38	1.85		0.19	5.58	6.88	12.46
App Fert by Air	cwt	8.00					0.22	8.22		8.22
Urea, Solid (46% N)	cwt	31.69					0.87	32.56		32.56
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Intrepid 2F	oz	7.96					0.22	8.18		8.18
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Trivapro	oz	20.28					0.42	20.70		20.70
Header - Corn	8R-38		4.74	7.07	3.44		0.10	15.35	27.43	42.78
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	50.60					0.35	50.95		50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
Roll-Out Pipe Irr.	acre	7.92	38.94	7.96	4.94		1.69	61.45	80.72	142.17
TOTALS		796.66	66.70	32.01	29.34	0.00	42.43	967.14	177.69	1144.83

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 24.E Estimated monthly income and expense flows per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	6.87	8.11	0.00	0.00
FERTILIZERS	131.11	0.00	0.00	0.00	0.00	0.00	111.31	120.00	31.69	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	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.96	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	144.84	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	8.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	9.71	0.00	0.00	0.00	0.00	3.74	0.68	4.07	3.12	0.23	0.68	7.11
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	11.38	0.00	0.00	0.00	0.00	3.85	0.55	4.22	27.99	9.11	0.56	9.04
REPAIR & MAINTENANCE	7.02	0.00	0.00	0.00	0.00	3.40	0.20	2.95	6.33	1.05	0.19	10.87
INTEREST ON OP. CAP.	16.98	0.00	0.00	0.00	2.16	7.50	6.88	4.80	2.76	0.80	0.02	0.53
TOTAL DIRECT EXPENSES	222.82	0.00	0.00	0.00	41.42	163.33	173.62	144.13	102.64	39.58	1.45	78.15
NET INCOME	-222.82	0.00	0.00	0.00	-41.42	-163.33	-173.62	-144.13	-102.64	-39.58	-1.45	1046.05
NET INCOME TO DATE	-222.82	-222.82	-222.82	-222.82	-264.24	-427.57	-601.19	-745.32	-847.96	-887.54	-888.99	157.06

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-520	-491	-463	-435	-407	-379	-351	-323	-295	-267	-239
			-697	-669	-641	-613	-585	-557	-529	-501	-472	-444	-416
60	132.00	bu	-440	-407	-373	-339	-305	-272	-238	-204	-171	-137	-103
			-618	-584	-551	-517	-483	-449	-416	-382	-348	-315	-281
70	154.00	bu	-361	-322	-282	-243	-204	-164	-125	-86	-46	-7	31
			-539	-499	-460	-421	-381	-342	-303	-263	-224	-185	-145
80	176.00	bu	-282	-237	-192	-147	-102	-57	-12	32	77	122	167
			-460	-415	-370	-325	-280	-235	-190	-145	-100	-55	-10
90	198.00	bu	-203	-152	-102	-51	-0	49	100	150	201	252	302
			-380	-330	-279	-229	-178	-127	-77	-26	23	74	124
100	220.00	bu	-123	-67	-11	44	100	157	213	269	325	381	438
			-301	-245	-189	-133	-76	-20	35	91	148	204	260
110	242.00	bu	-44	17	78	140	202	264	326	388	449	511	573
			-222	-160	-98	-36	24	86	148	210	272	334	395
120	264.00	bu	34	101	169	236	304	371	439	506	574	641	708
			-143	-75	-8	59	126	194	261	328	396	463	531
130	286.00	bu	113	186	259	332	405	479	552	625	698	771	844
			-64	9	82	155	228	301	374	447	520	593	666
140	308.00	bu	192	271	350	428	507	586	665	743	822	901	979
			15	93	172	251	329	408	487	566	644	723	802
150	330.00	bu	272	356	440	525	609	693	778	862	946	1030	1115
			94	178	263	347	431	515	600	684	768	853	937

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 2023 input prices.

Table 25.A Estimated costs per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
App by Air (3 gal)	appl	6.87	1.2000	8.24	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.6300	63.98	_____
Potash (60% K2O)	cwt	36.20	1.2500	45.25	_____
UAN + Sulfur (28%)	gal	3.46	19.3063	66.80	_____
UAN (32%)	gal	4.00	36.7200	146.88	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2804	0.72	_____
Intrepid 2F	oz	1.99	4.0000	7.96	_____
SEED/PLANTS					
Corn Seed RR2	thous	4.26	28.0000	119.28	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4903	8.80	_____
Harvesters	hour	17.94	0.1009	1.81	_____
Self-Propelled	hour	17.94	0.0176	0.32	_____
HAND LABOR					
Implements	hour	9.06	0.1175	1.06	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	17.93	0.5480	9.83	_____
DIESEL FUEL					
Tractors	gal	3.44	5.6788	19.55	_____
Harvesters	gal	3.44	1.3770	4.74	_____
Self-Propelled	gal	3.44	0.1586	0.55	_____
REPAIR & MAINTENANCE					
Implements	acre	12.06	1.0000	12.06	_____
Tractors	acre	4.74	1.0000	4.74	_____
Harvesters	acre	4.87	1.0000	4.87	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	34.68	1.0000	34.68	_____

TOTAL DIRECT EXPENSES				747.38	_____
FIXED EXPENSES					
Implements	acre	25.88	1.0000	25.88	_____
Tractors	acre	36.61	1.0000	36.61	_____
Harvesters	acre	23.31	1.0000	23.31	_____
Self-Propelled	acre	1.63	1.0000	1.63	_____

TOTAL FIXED EXPENSES				87.43	_____

TOTAL SPECIFIED EXPENSES				834.81	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 25.B Summary of estimated costs and returns per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	170.0000	868.70	_____
TOTAL INCOME				868.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.35	1.0000	16.35	_____
FERTILIZERS	acre	322.91	1.0000	322.91	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	8.68	1.0000	8.68	_____
SEED/PLANTS	acre	119.28	1.0000	119.28	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1263	1.14	_____
OPERATOR LABOR	hour	17.94	0.6089	10.93	_____
UNALLOCATED LABOR	hour	17.93	0.5480	9.83	_____
DIESEL FUEL	gal	3.44	7.2145	24.84	_____
REPAIR & MAINTENANCE	acre	21.87	1.0000	21.87	_____
INTEREST ON OP. CAP.	acre	34.68	1.0000	34.68	_____
TOTAL DIRECT EXPENSES				747.38	_____
RETURNS ABOVE DIRECT EXPENSES				121.32	_____
TOTAL FIXED EXPENSES				87.43	_____
TOTAL SPECIFIED EXPENSES				834.81	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				33.89	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 25.C Estimated resource use for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Subsoiler	3 shank	MFWD 225	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	42'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	Mar		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					19.3063				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2804				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32%)	gal					36.7200				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.60	0.59	0.73	0.54

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 25.D Estimated costs for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Subsoiler	3 shank		4.07	1.18	3.48		0.72	9.45	8.27	17.72
Disk Harrow	42'		1.86	2.33	1.60		0.48	6.27	8.47	14.74
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	63.98					5.28	69.26		69.26
Potash (60% K2O)	cwt	45.25					3.73	48.98		48.98
Bed/Disk (Hipper)	12R-38		1.97	1.89	1.69		0.46	6.01	8.33	14.34
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Row Cond Folding	38'		1.63	0.80	1.39		0.18	4.00	5.22	9.22
Plant - Folding	12R-38		1.98	2.28	2.14		0.31	6.71	8.04	14.75
Corn Seed RR2	thous	119.28					5.74	125.02		125.02
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	66.80					2.76	69.56		69.56
Sprayer 600-750gal	60' 175hp		0.55	0.20	0.68		0.06	1.49	1.63	3.12
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
Corn Consultant	acre	6.00					0.21	6.21		6.21
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Fert Appl (Liquid)	12R-38		2.06	1.57	1.99		0.19	5.81	5.36	11.17
UAN (32%)	gal	146.88					5.05	151.93		151.93
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Intrepid 2F	oz	7.96					0.22	8.18		8.18
Header - Corn	8R-38		4.74	7.07	3.44		0.10	15.35	27.43	42.78
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	39.10					0.27	39.37		39.37
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
TOTALS		644.09	24.84	21.87	21.90	0.00	34.68	747.38	87.43	834.81

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 25.E Estimated monthly income and expense flows per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	868.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	6.87	0.00	0.00	0.00
FERTILIZERS	109.23	0.00	0.00	0.00	0.00	0.00	66.80	146.88	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.96	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	119.28	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	8.59	0.00	0.00	0.00	0.00	3.53	0.68	1.99	0.00	0.00	0.00	7.11
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	9.58	0.00	0.00	0.00	0.00	3.61	0.55	2.06	0.00	0.00	0.00	9.04
REPAIR & MAINTENANCE	6.15	0.00	0.00	0.00	0.00	3.08	0.20	1.57	0.00	0.00	0.00	10.87
INTEREST ON OP. CAP.	14.86	0.00	0.00	0.00	2.16	6.23	5.05	5.52	0.41	0.00	0.00	0.45
TOTAL DIRECT EXPENSES	195.03	0.00	0.00	0.00	41.42	135.73	127.28	166.11	15.24	0.00	0.00	66.57
NET INCOME	-195.03	0.00	0.00	0.00	-41.42	-135.73	-127.28	-166.11	-15.24	0.00	0.00	802.13
NET INCOME TO DATE	-195.03	-195.03	-195.03	-195.03	-236.45	-372.18	-499.46	-665.57	-680.81	-680.81	-680.81	121.32

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 25.F Estimated returns for various price/yield combinations, per acre
Corn, conventional tillage, RR2, 12-row 38"
170 bu yield goal, non-irrigated, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-401	-380	-358	-336	-315	-293	-271	-249	-228	-206	-184
			-489	-467	-445	-424	-402	-380	-359	-337	-315	-293	-272
60	102.00	bu	-340	-314	-288	-262	-236	-210	-184	-158	-132	-106	-80
			-428	-402	-376	-349	-323	-297	-271	-245	-219	-193	-167
70	119.00	bu	-279	-249	-218	-188	-157	-127	-97	-66	-36	-5	24
			-366	-336	-306	-275	-245	-214	-184	-154	-123	-93	-62
80	136.00	bu	-218	-183	-148	-114	-79	-44	-9	24	59	94	129
			-305	-270	-236	-201	-166	-131	-97	-62	-27	7	41
90	153.00	bu	-157	-117	-78	-39	-0	38	77	116	155	194	233
			-244	-205	-166	-127	-88	-49	-9	29	68	107	146
100	170.00	bu	-95	-52	-8	34	77	121	164	208	251	295	338
			-183	-139	-96	-52	-9	33	77	120	164	207	251
110	187.00	bu	-34	13	60	108	156	204	252	299	347	395	443
			-122	-74	-26	21	69	116	164	212	260	307	355
120	204.00	bu	26	78	130	182	235	287	339	391	443	495	547
			-60	-8	43	95	147	199	251	304	356	408	460
130	221.00	bu	87	144	200	257	313	370	426	483	539	595	652
			0	56	113	169	226	282	339	395	452	508	565
140	238.00	bu	149	209	270	331	392	453	513	574	635	696	757
			61	122	183	244	304	365	426	487	548	608	669
150	255.00	bu	210	275	340	405	470	535	601	666	731	796	861
			122	187	253	318	383	448	513	578	644	709	774

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 2023 input prices.

Table 26.A Estimated costs per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area,
Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	1.2000	8.24	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.9570	76.81	_____
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN + Sulfur (28%)	gal	3.46	32.1712	111.31	_____
UAN (32%)	gal	4.00	30.0000	120.00	_____
Urea, Solid (46% N)	cwt	31.69	1.0000	31.69	_____
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2800	0.72	_____
Intrepid 2F	oz	1.99	4.0000	7.96	_____
SEED/PLANTS					
Corn Seed RR2	thous	4.26	34.0000	144.84	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
App Fert by Air	cwt	8.00	1.0000	8.00	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5637	10.11	_____
Harvesters	hour	17.94	0.1009	1.81	_____
Self-Propelled	hour	17.94	0.0176	0.32	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1175	1.06	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	17.94	0.6141	11.02	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.47	_____
Harvesters	gal	3.44	1.3770	4.74	_____
Self-Propelled	gal	3.44	0.1586	0.55	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	13.54	1.0000	13.54	_____
Tractors	acre	5.44	1.0000	5.44	_____
Harvesters	acre	4.87	1.0000	4.87	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	42.59	1.0000	42.59	_____

TOTAL DIRECT EXPENSES				969.86	_____
FIXED EXPENSES					
Implements	acre	29.93	1.0000	29.93	_____
Tractors	acre	42.10	1.0000	42.10	_____
Harvesters	acre	23.31	1.0000	23.31	_____
Self-Propelled	acre	1.63	1.0000	1.63	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____

TOTAL FIXED EXPENSES				196.47	_____

TOTAL SPECIFIED EXPENSES				1166.33	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 26.B Summary of estimated costs and returns per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area,
Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____

TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.46	1.0000	24.46	_____
FERTILIZERS	acre	394.11	1.0000	394.11	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	8.68	1.0000	8.68	_____
SEED/PLANTS	acre	144.84	1.0000	144.84	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	15.50	1.0000	15.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1263	1.14	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.6823	12.24	_____
UNALLOCATED LABOR	hour	17.94	0.6141	11.02	_____
DIESEL FUEL	gal	3.44	19.2663	66.29	_____
REPAIR & MAINTENANCE	acre	46.00	1.0000	46.00	_____
INTEREST ON OP. CAP.	acre	42.59	1.0000	42.59	_____

TOTAL DIRECT EXPENSES				969.86	_____
RETURNS ABOVE DIRECT EXPENSES				154.34	_____
TOTAL FIXED EXPENSES				196.47	_____

TOTAL SPECIFIED EXPENSES				1166.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-42.13	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 26.C Estimated resource use for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Subsoiler	3 shank	MFWD 225	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	42'	MFWD 225	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.9570				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Row Cond./Roll-Fold.	40'	MFWD 225	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Plant - Folding	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					34.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					32.1712				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Surfactant	pt					0.3000				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32%)	gal					30.0000				
Cultivate	12R-38	MFWD 225	0.054	1.00	May		0.05	0.05	0.05	0.04
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
1/4-mi. Pivot Irr.	acre				Jul	1.0000			0.20	
TOTALS							0.68	0.66	1.01	0.61

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 26.D Estimated costs for field operations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Subsoiler	3 shank		4.07	1.18	3.48		0.72	9.45	8.27	17.72
Disk Harrow	42'		1.86	2.33	1.60		0.48	6.27	8.47	14.74
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Spin Spreader	5 ton		1.68	0.75	1.82		0.35	4.60	4.00	8.60
Phosphorus(46% P2O5)	cwt	76.81					6.34	83.15		83.15
Potash (60% K2O)	cwt	54.30					4.48	58.78		58.78
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13		0.58	7.57	10.50	18.07
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
Clarity	pt	7.15					0.39	7.54		7.54
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Row Cond./Roll-Fold.	40'		1.87	1.12	1.60		0.22	4.81	5.71	10.52
Plant - Folding	12R-38		1.98	2.28	2.14		0.31	6.71	8.04	14.75
Corn Seed RR2	thous	144.84					6.97	151.81		151.81
Custom Apply Fert	acre	7.50					0.31	7.81		7.81
UAN + Sulfur (28%)	gal	111.31					4.59	115.90		115.90
Sprayer 600-750gal	60' 175hp		0.55	0.20	0.68		0.06	1.49	1.63	3.12
Atrazine 4L	pt	10.84					0.45	11.29		11.29
Halex GT	pt	34.67					1.43	36.10		36.10
Surfactant	pt	0.99					0.04	1.03		1.03
Corn Consultant	acre	6.00					0.21	6.21		6.21
App by Air (3 gal)	appl	1.37					0.05	1.42		1.42
Bifenthrin	oz	0.72					0.02	0.74		0.74
Fert Appl (Liquid)	12R-38		2.06	1.57	1.99		0.19	5.81	5.36	11.17
UAN (32%)	gal	120.00					4.13	124.13		124.13
Cultivate	12R-38		2.16	1.38	1.85		0.19	5.58	6.88	12.46
App Fert by Air	cwt	8.00					0.22	8.22		8.22
Urea, Solid (46% N)	cwt	31.69					0.87	32.56		32.56
App by Air (3 gal)	appl	6.87					0.19	7.06		7.06
Intrepid 2F	oz	7.96					0.22	8.18		8.18
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Trivapro	oz	20.28					0.42	20.70		20.70
Header - Corn	8R-38		4.74	7.07	3.44		0.10	15.35	27.43	42.78
Grain Cart Corn	700 bu		1.01	0.61	0.86		0.02	2.50	2.72	5.22
Haul Corn	bu	50.60					0.35	50.95		50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81		0.06	9.35	7.96	17.31
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17	99.50	163.67
TOTALS		788.74	66.29	46.00	26.24	0.00	42.59	969.86	196.47	1166.33

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 26.E Estimated monthly income and expense flows per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	6.87	8.11	0.00	0.00
FERTILIZERS	131.11	0.00	0.00	0.00	0.00	0.00	111.31	120.00	31.69	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	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	7.96	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	144.84	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	8.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	9.03	0.00	0.00	0.00	0.00	3.74	2.02	3.99	0.20	0.15	0.00	7.11
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.10	0.00	0.00	0.00	0.00	3.85	0.55	15.78	15.41	11.56	0.00	9.04
REPAIR & MAINTENANCE	6.63	0.00	0.00	0.00	0.00	3.40	0.20	21.42	1.99	1.49	0.00	10.87
INTEREST ON OP. CAP.	16.79	0.00	0.00	0.00	2.16	7.50	6.93	5.83	1.99	0.86	0.00	0.53
TOTAL DIRECT EXPENSES	220.28	0.00	0.00	0.00	41.42	163.33	175.01	175.11	74.11	42.45	0.00	78.15
NET INCOME	-220.28	0.00	0.00	0.00	-41.42	-163.33	-175.01	-175.11	-74.11	-42.45	0.00	1046.05
NET INCOME TO DATE	-220.28	-220.28	-220.28	-220.28	-261.70	-425.03	-600.04	-775.15	-849.26	-891.71	-891.71	154.34

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 26.F Estimated returns for various price/yield combinations, per acre
Corn, conventional tillage, RR2, 12-row 38",
220 bu yld goal, pivot irrigated, 7.5 ac-in.,Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-522	-494	-466	-438	-410	-382	-354	-326	-297	-269	-241
			-719	-691	-663	-634	-606	-578	-550	-522	-494	-466	-438
60	132.00	bu	-443	-409	-376	-342	-308	-274	-241	-207	-173	-140	-106
			-640	-606	-572	-538	-505	-471	-437	-403	-370	-336	-302
70	154.00	bu	-364	-325	-285	-246	-206	-167	-128	-88	-49	-10	29
			-560	-521	-482	-442	-403	-364	-324	-285	-246	-206	-167
80	176.00	bu	-285	-240	-195	-150	-105	-60	-15	29	74	119	164
			-481	-436	-391	-346	-301	-256	-211	-166	-121	-76	-31
90	198.00	bu	-205	-155	-104	-54	-3	47	97	148	198	249	299
			-402	-351	-301	-250	-200	-149	-98	-48	2	52	103
100	220.00	bu	-126	-70	-14	41	98	154	210	266	322	379	435
			-323	-266	-210	-154	-98	-42	14	70	126	182	238
110	242.00	bu	-47	14	76	138	199	261	323	385	447	508	570
			-243	-182	-120	-58	3	65	127	188	250	312	374
120	264.00	bu	31	99	166	234	301	368	436	503	571	638	706
			-164	-97	-29	37	105	172	239	307	374	442	509
130	286.00	bu	110	184	257	330	403	476	549	622	695	768	841
			-85	-12	60	133	206	279	352	425	499	572	645
140	308.00	bu	190	268	347	426	504	583	662	741	819	898	977
			-6	72	151	229	308	387	465	544	623	701	780
150	330.00	bu	269	353	438	522	606	690	775	859	943	1028	1112
			72	157	241	325	410	494	578	663	747	831	916

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 2023 input prices.

Table 27.A Estimated costs per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
FERTILIZERS					
DAP	cwt	47.21	1.3000	61.37	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
UAN + Sulfur (28%)	gal	3.46	38.2883	132.48	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Lexar	pt	7.00	6.0000	42.00	_____
INSECTICIDES					
Sivanto Prime	oz	3.01	8.0000	24.08	_____
Warrior II	oz	2.74	1.5000	4.11	_____
Prevathon	oz	1.05	14.0000	14.70	_____
SEED/PLANTS					
Sorghum Concept+ Po	lb	4.16	4.5000	18.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Sorghum Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2915	5.24	_____
Harvesters	hour	17.94	0.1021	1.83	_____
Self-Propelled	hour	17.94	0.0661	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0330	0.30	_____
UNALLOCATED LABOR	hour	17.88	0.4138	7.40	_____
DIESEL FUEL					
Tractors	gal	3.44	3.3766	11.62	_____
Harvesters	gal	3.44	1.3935	4.79	_____
Self-Propelled	gal	3.44	0.8505	2.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.17	1.0000	7.17	_____
Tractors	acre	2.82	1.0000	2.82	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
INTEREST ON OP. CAP.	acre	20.08	1.0000	20.08	_____

TOTAL DIRECT EXPENSES				521.52	_____
FIXED EXPENSES					
Implements	acre	17.66	1.0000	17.66	_____
Tractors	acre	21.76	1.0000	21.76	_____
Harvesters	acre	23.59	1.0000	23.59	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____

TOTAL FIXED EXPENSES				71.31	_____

TOTAL SPECIFIED EXPENSES				592.83	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 27.B Summary of estimated costs and returns per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	4.85	100.0000	485.00	_____

TOTAL INCOME				485.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
FERTILIZERS	acre	230.05	1.0000	230.05	_____
HERBICIDES	acre	70.45	1.0000	70.45	_____
INSECTICIDES	acre	42.89	1.0000	42.89	_____
SEED/PLANTS	acre	18.72	1.0000	18.72	_____
ADJUVANTS	acre	0.99	1.0000	0.99	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1772	1.61	_____
OPERATOR LABOR	hour	17.94	0.4598	8.27	_____
UNALLOCATED LABOR	hour	17.88	0.4138	7.40	_____
DIESEL FUEL	gal	3.44	5.6208	19.36	_____
REPAIR & MAINTENANCE	acre	15.97	1.0000	15.97	_____
INTEREST ON OP. CAP.	acre	20.08	1.0000	20.08	_____

TOTAL DIRECT EXPENSES				521.52	_____
RETURNS ABOVE DIRECT EXPENSES				-36.52	_____
TOTAL FIXED EXPENSES				71.31	_____

TOTAL SPECIFIED EXPENSES				592.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-107.83	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 27.C Estimated resource use for field operations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Disk Harrow	32'	MFWD 225	0.061	1.00	Nov		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Apr		0.04	0.04	0.08	0.03
DAP	cwt					1.3000				
Potash (60% K2O)	cwt					1.0000				
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Folding	12R-30	MFWD 225	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Sorghum Concept+ Po	lb					4.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Apr			0.01	0.01	0.01
Lexar	pt					6.0000				
Sorghum Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					38.2883				
Sprayer 800gal	80' 250hp		0.013	1.00	Jun			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Warrior II	oz					1.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Prevathon	oz					14.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum	bu					100.0000				
							-------	-------	-------	-------
TOTALS							0.45	0.39	0.63	0.41

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 27.D Estimated costs for field operations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Lime (Spread)	ton	43.29					3.57	46.86		46.86
Disk Harrow	32'		2.45	2.11	2.09		0.50	7.15	8.61	15.76
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44		8.44
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Select Max	pt	15.01					0.83	15.84		15.84
Surfactant	pt	0.99					0.05	1.04		1.04
Spin Spreader	5 ton		1.68	0.75	1.82		0.18	4.43	4.00	8.43
DAP	cwt	61.37					2.53	63.90		63.90
Potash (60% K2O)	cwt	36.20					1.49	37.69		37.69
Field Cultivate Fld	32'		1.86	1.17	1.59		0.19	4.81	7.27	12.08
Plant - Folding	12R-30		2.50	2.62	2.71		0.32	8.15	9.55	17.70
Sorghum Concept+ Po	lb	18.72					0.77	19.49		19.49
Sprayer 800gal	80' 250hp		0.59	0.21	0.51		0.05	1.36	1.66	3.02
Lexar	pt	42.00					1.73	43.73		43.73
Sorghum Consultant	acre	6.00					0.21	6.21		6.21
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04		0.29	8.73	7.99	16.72
UAN + Sulfur (28%)	gal	132.48					4.55	137.03		137.03
Sprayer 800gal	80' 250hp		0.59	0.21	0.51		0.04	1.35	1.66	3.01
Sivanto Prime	oz	12.04					0.33	12.37		12.37
Sprayer 800gal	80' 250hp		0.59	0.21	0.51		0.03	1.34	1.66	3.00
Warrior II	oz	4.11					0.08	4.19		4.19
Sprayer 800gal	80' 250hp		0.59	0.21	0.51		0.03	1.34	1.66	3.00
Prevathon	oz	14.70					0.30	15.00		15.00
Sprayer 800gal	80' 250hp		0.59	0.21	0.51		0.03	1.34	1.66	3.00
Sivanto Prime	oz	12.04					0.25	12.29		12.29
Header Wheat/Sorghum	25' Rigid		4.79	6.00	3.48		0.10	14.37	25.59	39.96
Haul Sorghum	bu	25.00					0.17	25.17		25.17
TOTALS		448.83	19.36	15.97	17.28	0.00	20.08	521.52	71.31	592.83

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 27.E Estimated monthly income and expense flows per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	485.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	97.57	132.48	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	28.45	0.00	42.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.04	30.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	18.72	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	2.09	0.00	0.00	0.00	0.00	6.63	3.04	0.51	1.53	0.00	3.48
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	2.45	0.00	0.00	0.00	0.00	6.63	3.13	0.59	1.77	0.00	4.79
REPAIR & MAINTENANCE	0.00	2.11	0.00	0.00	0.00	0.00	4.75	2.27	0.21	0.63	0.00	6.00
INTEREST ON OP. CAP.	3.84	0.50	0.00	0.00	2.07	0.00	7.26	5.05	0.37	0.72	0.00	0.27
TOTAL DIRECT EXPENSES	50.46	7.15	0.00	0.00	39.62	0.00	183.56	151.97	13.72	35.50	0.00	39.54
NET INCOME	-50.46	-7.15	0.00	0.00	-39.62	0.00	-183.56	-151.97	-13.72	-35.50	0.00	445.46
NET INCOME TO DATE	-50.46	-57.61	-57.61	-57.61	-97.23	-97.23	-280.79	-432.76	-446.48	-481.98	-481.98	-36.52

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 27.F Estimated returns for various price/yield combinations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Grain Sorghum			3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06
PERCENT	YIELD	UNIT	dollars										
50	50.00	bu	-327	-314	-302	-290	-278	-266	-254	-242	-230	-217	-205
			-398	-386	-374	-361	-349	-337	-325	-313	-301	-289	-277
60	60.00	bu	-293	-278	-264	-249	-235	-220	-205	-191	-176	-162	-147
			-364	-349	-335	-320	-306	-291	-277	-262	-248	-233	-219
70	70.00	bu	-259	-242	-225	-208	-191	-174	-157	-140	-123	-106	-89
			-330	-313	-296	-279	-262	-245	-228	-211	-194	-177	-160
80	80.00	bu	-225	-206	-186	-167	-147	-128	-109	-89	-70	-50	-31
			-296	-277	-257	-238	-219	-199	-180	-160	-141	-122	-102
90	90.00	bu	-191	-169	-147	-126	-104	-82	-60	-38	-17	4	26
			-262	-241	-219	-197	-175	-153	-131	-110	-88	-66	-44
100	100.00	bu	-157	-133	-109	-85	-60	-36	-12	11	36	60	84
			-229	-204	-180	-156	-132	-107	-83	-59	-35	-10	13
110	110.00	bu	-123	-97	-70	-43	-17	9	36	62	89	116	142
			-195	-168	-141	-115	-88	-61	-35	-8	18	44	71
120	120.00	bu	-90	-60	-31	-2	26	55	84	113	142	171	200
			-161	-132	-103	-74	-44	-15	13	42	71	100	129
130	130.00	bu	-56	-24	6	38	69	101	132	164	196	227	259
			-127	-95	-64	-32	-1	30	61	93	124	156	187
140	140.00	bu	-22	11	45	79	113	147	181	215	249	283	317
			-93	-59	-25	8	42	76	110	144	177	211	245
150	150.00	bu	11	47	84	120	157	193	229	266	302	338	375
			-59	-23	12	49	85	122	158	194	231	267	303

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 2023 input prices.

Table 28.A Estimated costs per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	1.0000	6.87	_____
FERTILIZERS					
DAP	cwt	47.21	1.0000	47.21	_____
Potash (60% K2O)	cwt	36.20	0.7500	27.15	_____
Fert 41-0-0-4	cwt	38.00	3.0480	115.82	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	4.5000	34.34	_____
Miravis Ace	oz	1.78	13.7000	24.39	_____
HERBICIDES					
Axiom	oz	2.25	10.0000	22.50	_____
Harmony Extra SG	oz	11.00	0.7500	8.25	_____
Axial XL	oz	1.71	16.4000	28.04	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.34	90.0000	30.60	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	3.0480	24.38	_____
HAULING					
Haul Wheat	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Wheat Consultant	acre	5.50	1.0000	5.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2129	3.83	_____
Harvesters	hour	17.94	0.1021	1.83	_____
HAND LABOR					
Implements	hour	9.06	0.1049	0.95	_____
UNALLOCATED LABOR	hour	17.92	0.2521	4.52	_____
DIESEL FUEL					
Tractors	gal	3.44	2.4667	8.49	_____
Harvesters	gal	3.44	1.3935	4.79	_____
REPAIR & MAINTENANCE					
Implements	acre	5.93	1.0000	5.93	_____
Tractors	acre	2.06	1.0000	2.06	_____
Harvesters	acre	4.93	1.0000	4.93	_____
INTEREST ON OP. CAP.	acre	22.63	1.0000	22.63	_____

TOTAL DIRECT EXPENSES				516.05	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	15.89	1.0000	15.89	_____
Harvesters	acre	23.59	1.0000	23.59	_____

TOTAL FIXED EXPENSES				55.66	_____

TOTAL SPECIFIED EXPENSES				571.71	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 28.B Summary of estimated costs and returns per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	6.17	70.0000	431.90	_____

TOTAL INCOME				431.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.09	1.0000	23.09	_____
FERTILIZERS	acre	190.18	1.0000	190.18	_____
FUNGICIDES	acre	58.73	1.0000	58.73	_____
HERBICIDES	acre	58.79	1.0000	58.79	_____
SEED/PLANTS	acre	30.60	1.0000	30.60	_____
CUSTOM FERTILIZE	acre	24.38	1.0000	24.38	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	5.50	1.0000	5.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1049	0.95	_____
OPERATOR LABOR	hour	17.94	0.3151	5.66	_____
UNALLOCATED LABOR	hour	17.92	0.2521	4.52	_____
DIESEL FUEL	gal	3.44	3.8602	13.28	_____
REPAIR & MAINTENANCE	acre	12.92	1.0000	12.92	_____
INTEREST ON OP. CAP.	acre	22.63	1.0000	22.63	_____

TOTAL DIRECT EXPENSES				516.05	_____
RETURNS ABOVE DIRECT EXPENSES				-84.15	_____
TOTAL FIXED EXPENSES				55.66	_____

TOTAL SPECIFIED EXPENSES				571.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-139.81	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 28.C Estimated resource use for field operations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Sep	0.3330				
Lime (Spread)	ton			0.33	Sep	0.6660				
Disk Harrow	32'	MFWD 225	0.061	1.00	Sep		0.06	0.06	0.06	0.04
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Sep		0.04	0.04	0.08	0.03
DAP	cwt					1.0000				
Potash (60% K2O)	cwt					0.7500				
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Sep		0.04	0.04	0.04	0.03
Grain Drill	30'	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.12	0.05
Wheat Seed Private	lb					90.0000				
CruiserMaxx Vibrance	oz					4.5000				
Wheat Consultant	acre			1.00	Oct	1.0000				
App by Air (5 gal)	appl			1.00	Nov	1.0000				
Axiom	oz					10.0000				
App by Air (3 gal)	appl			1.00	Feb	1.0000				
Warrior II	oz									
Harmony Extra SG	oz					0.7500				
Axial XL	oz					16.4000				
App Fert by Air	cwt			1.00	Feb	1.5240				
Fert 41-0-0-4	cwt					1.5240				
App Fert by Air	cwt			1.00	Mar	1.5240				
Fert 41-0-0-4	cwt					1.5240				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Miravis Ace	oz					13.7000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.10	0.08
Haul Wheat	bu					70.0000				
							-------	-------	-------	-------
TOTALS							0.31	0.31	0.42	0.25

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 28.D Estimated costs for field operations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.23	3.56		3.56
Lime (Spread)	ton	43.29					2.98	46.27		46.27
Disk Harrow	32'		2.45	2.11	1.98		0.45	6.99	8.61	15.60
Spin Spreader	5 ton		1.68	0.75	1.74		0.29	4.46	4.00	8.46
DAP	cwt	47.21					3.25	50.46		50.46
Potash (60% K2O)	cwt	27.15					1.87	29.02		29.02
Field Cultivate Fld	32'		1.86	1.17	1.51		0.31	4.85	7.27	12.12
Grain Drill	30'		2.50	2.89	2.60		0.49	8.48	10.19	18.67
Wheat Seed Private	lb	30.60					1.89	32.49		32.49
CruiserMaxx Vibrance	oz	34.34					2.12	36.46		36.46
Wheat Consultant	acre	5.50					0.34	5.84		5.84
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Axiom	oz	22.50					1.24	23.74		23.74
App by Air (3 gal)	appl	6.87					0.24	7.11		7.11
Warrior II	oz									
Harmony Extra SG	oz	8.25					0.28	8.53		8.53
Axial XL	oz	28.04					0.96	29.00		29.00
App Fert by Air	cwt	12.19					0.42	12.61		12.61
Fert 41-0-0-4	cwt	57.91					1.99	59.90		59.90
App Fert by Air	cwt	12.19					0.34	12.53		12.53
Fert 41-0-0-4	cwt	57.91					1.59	59.50		59.50
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Miravis Ace	oz	24.39					0.50	24.89		24.89
Header Wheat/Sorghum	25' Rigid		4.79	6.00	3.30		0.10	14.19	25.59	39.78
Haul Wheat	bu	18.20					0.13	18.33		18.33
TOTALS		456.09	13.28	12.92	11.13	0.00	22.63	516.05	55.66	571.71

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 28.E Estimated monthly income and expense flows per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	431.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	6.87	0.00	8.11	0.00	0.00
FERTILIZERS	0.00	0.00	74.36	0.00	0.00	0.00	0.00	57.91	57.91	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	34.34	0.00	0.00	0.00	0.00	0.00	24.39	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.50	0.00	0.00	36.29	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.19	12.19	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	5.23	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	5.99	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.79
REPAIR & MAINTENANCE	0.00	0.00	4.03	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
INTEREST ON OP. CAP.	0.00	0.00	9.38	4.84	1.69	0.00	0.00	3.89	1.93	0.67	0.00	0.23
TOTAL DIRECT EXPENSES	0.00	0.00	145.61	83.27	32.30	0.00	0.00	117.15	72.03	33.17	0.00	32.52
NET INCOME	0.00	0.00	-145.61	-83.27	-32.30	0.00	0.00	-117.15	-72.03	-33.17	0.00	399.38
NET INCOME TO DATE	0.00	0.00	-145.61	-228.88	-261.18	-261.18	-261.18	-378.33	-450.36	-483.53	-483.53	-84.15

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
* Lease costs are based on hourly usage costs.

Table 28.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Wheat			4.62	4.93	5.24	5.55	5.86	6.17	6.47	6.78	7.09	7.40	7.71
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-344	-334	-323	-312	-301	-290	-280	-269	-258	-247	-236
			-400	-389	-378	-368	-357	-346	-335	-325	-314	-303	-292
60	42.00	bu	-314	-301	-288	-275	-262	-249	-236	-223	-210	-197	-184
			-370	-357	-344	-331	-318	-305	-292	-279	-266	-253	-240
70	49.00	bu	-283	-268	-253	-238	-223	-208	-193	-177	-162	-147	-132
			-339	-324	-309	-294	-278	-263	-248	-233	-218	-203	-188
80	56.00	bu	-253	-235	-218	-201	-184	-166	-149	-132	-115	-97	-80
			-308	-291	-274	-257	-239	-222	-205	-187	-170	-153	-136
90	63.00	bu	-222	-203	-183	-164	-144	-125	-106	-86	-67	-47	-28
			-278	-258	-239	-220	-200	-181	-161	-142	-122	-103	-83
100	70.00	bu	-192	-170	-148	-127	-105	-84	-62	-40	-19	2	23
			-247	-226	-204	-183	-161	-139	-118	-96	-75	-53	-31
110	77.00	bu	-161	-137	-114	-90	-66	-42	-19	4	28	52	75
			-217	-193	-169	-145	-122	-98	-74	-50	-27	-3	20
120	84.00	bu	-131	-105	-79	-53	-27	-1	24	50	76	102	128
			-186	-160	-134	-108	-83	-57	-31	-5	20	46	72
130	91.00	bu	-100	-72	-44	-16	11	39	67	96	124	152	180
			-156	-128	-99	-71	-43	-15	12	40	68	96	124
140	98.00	bu	-69	-39	-9	20	51	81	111	141	171	202	232
			-125	-95	-65	-34	-4	25	55	86	116	146	176
150	105.00	bu	-39	-6	25	57	90	122	155	187	219	252	284
			-94	-62	-30	2	34	66	99	131	164	196	228

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 2023 input prices.

Table 29.A Estimated costs per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.5000	44.61	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.33	75.0000	24.75	_____
Rice Seed Trt/Insect	lbseed	0.29	88.6000	25.69	_____
Rice Seed Cv(Levees)	lb	0.33	13.6000	4.49	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	1.34	1.0000	1.34	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5475	9.83	_____
Harvesters	hour	17.94	0.1269	2.28	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL					
Tractors	gal	3.44	7.5785	26.06	_____
Harvesters	gal	3.44	2.7765	9.55	_____
Flood Irr.	gal	3.44	26.8827	92.47	_____
REPAIR & MAINTENANCE					
Implements	acre	10.61	1.0000	10.61	_____
Tractors	acre	5.50	1.0000	5.50	_____
Harvesters	acre	7.40	1.0000	7.40	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	29.30	1.0000	29.30	_____

TOTAL DIRECT EXPENSES				1002.97	_____
FIXED EXPENSES					
Implements	acre	29.62	1.0000	29.62	_____
Tractors	acre	42.41	1.0000	42.41	_____
Harvesters	acre	35.45	1.0000	35.45	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____

TOTAL FIXED EXPENSES				166.92	_____

TOTAL SPECIFIED EXPENSES				1169.89	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 29.B Summary of estimated costs and returns per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____
TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.54	1.0000	53.54	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	8.75	1.0000	8.75	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	17.94	0.6745	12.11	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL	gal	3.44	37.2377	128.08	_____
REPAIR & MAINTENANCE	acre	37.82	1.0000	37.82	_____
INTEREST ON OP. CAP.	acre	29.30	1.0000	29.30	_____
TOTAL DIRECT EXPENSES				1002.97	_____
RETURNS ABOVE DIRECT EXPENSES				-97.37	_____
TOTAL FIXED EXPENSES				166.92	_____
TOTAL SPECIFIED EXPENSES				1169.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-264.29	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 29.C Estimated resource use for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Sep	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					75.0000				
Rice Seed Trt/Insect	lbseed					75.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
Class Act NG	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Cv(Levees)	lb					13.6000				
Rice Seed Trt/Insect	lbseed					13.6000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	40' Rigid	425 hp	0.126	1.00	Aug		0.12	0.12	0.12	0.11
Grain Cart Rice	700 bu	MFWD 225	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.67	0.67	6.02	0.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 29.D Estimated costs for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.02	3.35		3.35
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Conv.	lb	24.75					1.02	25.77		25.77
Rice Seed Trt/Insect	lbseed	21.75					0.90	22.65		22.65
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
Class Act NG	pt	2.50					0.10	2.60		2.60
MSO	pt	0.67					0.03	0.70		0.70
Seed Levees										
Rice Seed Cv(Levees)	lb	4.49					0.19	4.68		4.68
Rice Seed Trt/Insect	lbseed	3.94					0.16	4.10		4.10
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
Rice Management										
RICE MGT. LABOR	hour				2.72		0.09	2.81		2.81
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	0.67					0.02	0.69		0.69
Rice Management										
RICE MGT. LABOR	hour				4.53		0.12	4.65		4.65
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				4.53		0.09	4.62		4.62
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (CL)	40' Rigid		9.55	10.17	4.33		0.33	24.38	40.92	65.30
Grain Cart Rice	700 bu		0.44	0.27	0.38		0.01	1.10	1.18	2.28
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	4.50	96.22	15.30	34.20		4.67	154.89	66.73	221.62
TOTALS		738.25	128.08	37.82	69.52	0.00	29.30	1002.97	166.92	1169.89

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 29.E Estimated monthly income and expense flows per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	54.93	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	0.67	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	17.15	9.52	11.33	11.33	10.52	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.99	25.22	25.22	25.22	11.37	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.21	8.20	2.29	2.29	10.81	4.83
INTEREST ON OP. CAP.	1.22	0.00	0.00	0.00	1.41	0.00	7.22	10.32	4.09	2.81	2.09	0.14
TOTAL DIRECT EXPENSES	15.94	0.00	0.00	0.00	26.96	0.00	181.76	310.45	152.84	138.73	154.79	21.50
NET INCOME	-15.94	0.00	0.00	0.00	-26.96	0.00	-181.76	-310.45	-152.84	-138.73	750.81	-21.50
NET INCOME TO DATE	-15.94	-15.94	-15.94	-15.94	-42.90	-42.90	-224.66	-535.11	-687.95	-826.68	-75.87	-97.37

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs

Table 29.F Estimated returns for various price/yield combinations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-602	-579	-557	-534	-511	-489	-466	-444	-421	-398	-376
			-769	-746	-724	-701	-678	-656	-633	-610	-588	-565	-543
60	96.00	bu	-546	-519	-492	-465	-438	-410	-383	-356	-329	-302	-275
			-713	-686	-659	-632	-605	-577	-550	-523	-496	-469	-442
70	112.00	bu	-491	-459	-427	-395	-364	-332	-300	-269	-237	-205	-174
			-657	-626	-594	-562	-531	-499	-467	-436	-404	-372	-340
80	128.00	bu	-435	-399	-362	-326	-290	-254	-217	-181	-145	-109	-73
			-602	-565	-529	-493	-457	-421	-384	-348	-312	-276	-239
90	144.00	bu	-379	-338	-298	-257	-216	-175	-135	-94	-53	-12	27
			-546	-505	-464	-424	-383	-342	-301	-261	-220	-179	-138
100	160.00	bu	-323	-278	-233	-187	-142	-97	-52	-6	38	83	129
			-490	-445	-400	-354	-309	-264	-219	-173	-128	-83	-37
110	176.00	bu	-268	-218	-168	-118	-68	-18	30	80	130	180	230
			-434	-385	-335	-285	-235	-185	-136	-86	-36	13	63
120	192.00	bu	-212	-157	-103	-49	5	59	113	168	222	276	331
			-379	-324	-270	-216	-161	-107	-53	1	55	109	164
130	208.00	bu	-156	-97	-38	20	78	137	196	255	314	373	432
			-323	-264	-205	-146	-87	-29	29	88	147	206	265
140	224.00	bu	-100	-37	26	89	152	216	279	342	406	469	533
			-267	-204	-140	-77	-14	49	112	176	239	302	366
150	240.00	bu	-44	22	90	158	226	294	362	430	498	566	634
			-211	-143	-76	-8	59	127	195	263	331	399	467

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 2023 input prices.

Table 30.A Estimated costs per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.5000	44.61	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.33	75.0000	24.75	_____
Rice Seed Trt/Insect	lbseed	0.29	88.6000	25.69	_____
Rice Seed Cv(Levees)	lb	0.33	13.6000	4.49	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4999	8.98	_____
Harvesters	hour	17.94	0.1269	2.28	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2043	24.77	_____
Harvesters	gal	3.44	2.7765	9.55	_____
Flood Irr.	gal	3.44	21.9949	75.67	_____
REPAIR & MAINTENANCE					
Implements	acre	10.53	1.0000	10.53	_____
Tractors	acre	5.21	1.0000	5.21	_____
Harvesters	acre	7.40	1.0000	7.40	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	28.41	1.0000	28.41	_____

TOTAL DIRECT EXPENSES				963.50	_____
FIXED EXPENSES					
Implements	acre	29.07	1.0000	29.07	_____
Tractors	acre	40.22	1.0000	40.22	_____
Harvesters	acre	35.45	1.0000	35.45	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____

TOTAL FIXED EXPENSES				197.11	_____

TOTAL SPECIFIED EXPENSES				1160.61	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 30.B Summary of estimated costs and returns per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____
TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.54	1.0000	53.54	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	9.42	1.0000	9.42	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	17.94	0.6268	11.26	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL	gal	3.44	31.9758	109.99	_____
REPAIR & MAINTENANCE	acre	37.45	1.0000	37.45	_____
INTEREST ON OP. CAP.	acre	28.41	1.0000	28.41	_____
TOTAL DIRECT EXPENSES				963.50	_____
RETURNS ABOVE DIRECT EXPENSES				-57.90	_____
TOTAL FIXED EXPENSES				197.11	_____
TOTAL SPECIFIED EXPENSES				1160.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-255.01	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 30.C Estimated resource use for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					75.0000				
Rice Seed Trt/Insect	lbseed					75.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Cv(Levees)	lb					13.6000				
Rice Seed Trt/Insect	lbseed					13.6000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	40' Rigid	425 hp	0.126	1.00	Aug		0.12	0.12	0.12	0.11
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.62	0.62	4.03	0.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 30.D Estimated costs for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Conv.	lb	24.75					1.02	25.77		25.77
Rice Seed Trt/Insect	lbseed	21.75					0.90	22.65		22.65
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed Cv(Levees)	lb	4.49					0.19	4.68		4.68
Rice Seed Trt/Insect	lbseed	3.94					0.16	4.10		4.10
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (CL)	40' Rigid		9.55	10.17	4.33		0.33	24.38	40.92	65.30
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	2.25	77.99	14.92	22.91		3.68	121.75	96.79	218.54
TOTALS		736.67	109.99	37.45	50.98	0.00	28.41	963.50	197.11	1160.61

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 30.E Estimated monthly income and expense flows per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	54.93	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	13.04	5.44	6.34	6.34	10.15	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.19	19.62	19.62	19.62	10.88	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.32	8.09	2.18	2.18	10.66	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	6.92	9.99	3.81	2.59	2.08	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	174.41	300.33	142.53	127.81	153.77	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-174.41	-300.33	-142.53	-127.81	751.83	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-220.91	-521.24	-663.77	-791.58	-39.75	-57.90

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs

Table 30.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-563	-540	-517	-495	-472	-449	-427	-404	-381	-359	-336
			-760	-737	-714	-692	-669	-646	-624	-601	-579	-556	-533
60	96.00	bu	-507	-480	-452	-425	-398	-371	-344	-317	-289	-262	-235
			-704	-677	-650	-622	-595	-568	-541	-514	-487	-459	-432
70	112.00	bu	-451	-419	-388	-356	-324	-293	-261	-229	-197	-166	-134
			-648	-616	-585	-553	-521	-490	-458	-426	-395	-363	-331
80	128.00	bu	-395	-359	-323	-287	-250	-214	-178	-142	-106	-69	-33
			-592	-556	-520	-484	-448	-411	-375	-339	-303	-266	-230
90	144.00	bu	-340	-299	-258	-217	-177	-136	-95	-54	-14	26	67
			-537	-496	-455	-414	-374	-333	-292	-251	-211	-170	-129
100	160.00	bu	-284	-239	-193	-148	-103	-57	-12	32	77	123	168
			-481	-436	-390	-345	-300	-255	-209	-164	-119	-73	-28
110	176.00	bu	-228	-178	-128	-79	-29	20	70	120	169	219	269
			-425	-375	-326	-276	-226	-176	-126	-76	-27	22	72
120	192.00	bu	-172	-118	-64	-9	44	98	153	207	261	316	370
			-369	-315	-261	-206	-152	-98	-43	10	64	119	173
130	208.00	bu	-117	-58	0	59	118	177	236	295	353	412	471
			-314	-255	-196	-137	-78	-19	39	97	156	215	274
140	224.00	bu	-61	2	65	128	192	255	319	382	445	509	572
			-258	-194	-131	-68	-4	58	121	185	248	312	375
150	240.00	bu	-5	62	130	198	266	334	401	469	537	605	673
			-202	-134	-66	1	69	136	204	272	340	408	476

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 2023 input prices.

Table 31.A Estimated costs per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.5000	44.61	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.33	75.0000	24.75	_____
Rice Seed Trt/Insect	lbseed	0.29	88.6000	25.69	_____
Rice Seed Cv(Levees)	lb	0.33	13.6000	4.49	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	1.34	1.5000	2.01	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.5000	1.43	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5281	9.48	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.4504	25.62	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	18.7364	64.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.26	1.0000	10.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	28.08	1.0000	28.08	_____

TOTAL DIRECT EXPENSES				947.23	_____
FIXED EXPENSES					
Implements	acre	29.37	1.0000	29.37	_____
Tractors	acre	41.59	1.0000	41.59	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____

TOTAL FIXED EXPENSES				193.70	_____

TOTAL SPECIFIED EXPENSES				1140.93	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 31.B Summary of estimated costs and returns per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____
TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.54	1.0000	53.54	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	9.71	1.0000	9.71	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	17.94	0.6381	11.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	28.5932	98.34	_____
REPAIR & MAINTENANCE	acre	36.03	1.0000	36.03	_____
INTEREST ON OP. CAP.	acre	28.08	1.0000	28.08	_____
TOTAL DIRECT EXPENSES				947.23	_____
RETURNS ABOVE DIRECT EXPENSES				-41.63	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1140.93	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-235.33	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 31.C Estimated resource use for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					75.0000				
Rice Seed Trt/Insect	lbseed					75.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
Class Act NG	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Cv(Levees)	lb					13.6000				
Rice Seed Trt/Insect	lbseed					13.6000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.5000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.63	0.63	2.82	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 31.D Estimated costs for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Conv.	lb	24.75					1.02	25.77		25.77
Rice Seed Trt/Insect	lbseed	21.75					0.90	22.65		22.65
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
Class Act NG	pt	2.50					0.10	2.60		2.60
MSO	pt	0.67					0.03	0.70		0.70
Seed Levees										
Rice Seed Cv(Levees)	lb	4.49					0.19	4.68		4.68
Rice Seed Trt/Insect	lbseed	3.94					0.16	4.10		4.10
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.43					0.05	1.48		1.48
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	10.17	67.61	14.85	12.41		3.38	108.42	98.84	207.26
TOTALS		744.88	98.34	36.03	39.90	0.00	28.08	947.23	193.70	1140.93

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 31.E Estimated monthly income and expense flows per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	54.93	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.87	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	10.94	2.72	3.62	3.62	9.33	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	23.05	16.81	16.81	16.81	9.80	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.43	8.01	2.10	2.10	9.37	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	7.07	9.80	3.66	2.48	2.05	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	178.35	294.82	136.77	122.09	150.55	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-178.35	-294.82	-136.77	-122.09	755.05	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-224.85	-519.67	-656.44	-778.53	-23.48	-41.63

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs

Table 31.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-546	-524	-501	-478	-456	-433	-410	-388	-365	-343	-320
			-740	-717	-695	-672	-649	-627	-604	-582	-559	-536	-514
60	96.00	bu	-491	-463	-436	-409	-382	-355	-328	-300	-273	-246	-219
			-684	-657	-630	-603	-576	-548	-521	-494	-467	-440	-413
70	112.00	bu	-435	-403	-371	-340	-308	-276	-245	-213	-181	-150	-118
			-628	-597	-565	-533	-502	-470	-438	-407	-375	-343	-312
80	128.00	bu	-379	-343	-307	-270	-234	-198	-162	-125	-89	-53	-17
			-573	-537	-500	-464	-428	-392	-355	-319	-283	-247	-211
90	144.00	bu	-323	-283	-242	-201	-160	-120	-79	-38	2	42	83
			-517	-476	-435	-395	-354	-313	-272	-232	-191	-150	-109
100	160.00	bu	-268	-222	-177	-132	-86	-41	3	48	94	139	184
			-461	-416	-371	-325	-280	-235	-190	-144	-99	-54	-8
110	176.00	bu	-212	-162	-112	-62	-13	36	86	136	186	235	285
			-405	-356	-306	-256	-206	-156	-107	-57	-7	42	92
120	192.00	bu	-156	-102	-47	6	60	115	169	223	278	332	386
			-350	-295	-241	-187	-132	-78	-24	30	84	138	193
130	208.00	bu	-100	-41	16	75	134	193	252	311	370	429	487
			-294	-235	-176	-117	-59	-0	58	117	176	235	294
140	224.00	bu	-45	18	81	145	208	271	335	398	462	525	588
			-238	-175	-111	-48	14	78	141	205	268	331	395
150	240.00	bu	10	78	146	214	282	350	418	486	554	622	689
			-182	-115	-47	20	88	156	224	292	360	428	496

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 2023 input prices.

Table 32.A Estimated costs per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.5000	44.61	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.33	75.0000	24.75	_____
Rice Seed Trt/Insect	lbseed	0.29	75.0000	21.75	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	1.34	1.5000	2.01	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.5000	1.43	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4228	7.59	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.45	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	15.4779	53.24	_____
REPAIR & MAINTENANCE					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	4.72	1.0000	4.72	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	26.64	1.0000	26.64	_____

TOTAL DIRECT EXPENSES				906.89	_____
FIXED EXPENSES					
Implements	acre	27.66	1.0000	27.66	_____
Tractors	acre	36.48	1.0000	36.48	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____

TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1093.42	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 32.B Summary of estimated costs and returns per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____

TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.54	1.0000	53.54	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	46.50	1.0000	46.50	_____
ADJUVANTS	acre	9.71	1.0000	9.71	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	17.94	0.5328	9.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	24.4137	83.97	_____
REPAIR & MAINTENANCE	acre	32.98	1.0000	32.98	_____
INTEREST ON OP. CAP.	acre	26.64	1.0000	26.64	_____

TOTAL DIRECT EXPENSES				906.89	_____
RETURNS ABOVE DIRECT EXPENSES				-1.29	_____
TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1093.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-187.82	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 32.C Estimated resource use for field operations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					75.0000				
Rice Seed Trt/Insect	lbseed					75.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
Class Act NG	pt					0.5000				
MSO	pt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.5000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
							-------	-------	-------	-------
TOTALS							0.53	0.53	2.61	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 32.D Estimated costs for field operations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Conv.	lb	24.75					1.02	25.77		25.77
Rice Seed Trt/Insect	lbseed	21.75					0.90	22.65		22.65
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
Class Act NG	pt	2.50					0.10	2.60		2.60
MSO	pt	0.67					0.03	0.70		0.70
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.43					0.05	1.48		1.48
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre		53.24	11.80	9.53		2.29	76.86	91.67	168.53
TOTALS		726.28	83.97	32.98	37.02	0.00	26.64	906.89	186.53	1093.42

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 32.E Estimated monthly income and expense flows per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	46.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.87	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	7.80	3.18	4.08	4.08	8.21	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	18.02	14.01	14.01	14.01	8.86	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	5.30	7.46	1.55	1.55	9.10	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	5.91	9.70	3.58	2.42	2.01	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	149.29	291.83	133.80	119.14	148.18	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-149.29	-291.83	-133.80	-119.14	757.42	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-195.79	-487.62	-621.42	-740.56	16.86	-1.29

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 32.F Estimated returns for various price/yield combinations, per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-506	-483	-461	-438	-415	-393	-370	-347	-325	-302	-280
			-692	-670	-647	-625	-602	-579	-557	-534	-511	-489	-466
60	96.00	bu	-450	-423	-396	-369	-342	-314	-287	-260	-233	-206	-179
			-637	-610	-582	-555	-528	-501	-474	-447	-419	-392	-365
70	112.00	bu	-394	-363	-331	-299	-268	-236	-204	-173	-141	-109	-77
			-581	-549	-518	-486	-454	-423	-391	-359	-327	-296	-264
80	128.00	bu	-339	-302	-266	-230	-194	-158	-121	-85	-49	-13	23
			-525	-489	-453	-417	-380	-344	-308	-272	-235	-199	-163
90	144.00	bu	-283	-242	-201	-161	-120	-79	-38	1	42	83	124
			-469	-429	-388	-347	-306	-266	-225	-184	-143	-103	-62
100	160.00	bu	-227	-182	-137	-91	-46	-1	43	89	134	179	225
			-414	-368	-323	-278	-233	-187	-142	-97	-51	-6	38
110	176.00	bu	-171	-122	-72	-22	27	77	126	176	226	276	326
			-358	-308	-258	-209	-159	-109	-59	-9	39	89	139
120	192.00	bu	-116	-61	-7	46	101	155	209	264	318	372	427
			-302	-248	-194	-139	-85	-31	23	77	131	186	240
130	208.00	bu	-60	-1	57	116	175	233	292	351	410	469	528
			-246	-188	-129	-70	-11	47	106	165	223	282	341
140	224.00	bu	-4	58	122	185	248	312	375	439	502	565	629
			-191	-127	-64	-1	62	125	189	252	315	379	442
150	240.00	bu	51	119	186	254	322	390	458	526	594	662	730
			-135	-67	0	68	136	204	272	339	407	475	543

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 2023 input prices.

Table 33.A Estimated costs per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Conv Hyb Trt	lb	6.31	23.0000	145.13	_____
Rice Seed CvH(Levee)	lb	1.93	4.2500	8.20	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5475	9.83	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.6209	26.20	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	26.8827	92.47	_____
REPAIR & MAINTENANCE					
Implements	acre	10.24	1.0000	10.24	_____
Tractors	acre	5.51	1.0000	5.51	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	33.25	1.0000	33.25	_____

TOTAL DIRECT EXPENSES				1085.92	_____
FIXED EXPENSES					
Implements	acre	28.89	1.0000	28.89	_____
Tractors	acre	42.54	1.0000	42.54	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____

TOTAL FIXED EXPENSES				161.59	_____

TOTAL SPECIFIED EXPENSES				1247.51	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 33.B Summary of estimated costs and returns per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____

TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.43	1.0000	45.43	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	9.09	1.0000	9.09	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	17.94	0.6575	11.80	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	36.9100	126.95	_____
REPAIR & MAINTENANCE	acre	36.48	1.0000	36.48	_____
INTEREST ON OP. CAP.	acre	33.25	1.0000	33.25	_____

TOTAL DIRECT EXPENSES				1085.92	_____
RETURNS ABOVE DIRECT EXPENSES				-67.12	_____
TOTAL FIXED EXPENSES				161.59	_____

TOTAL SPECIFIED EXPENSES				1247.51	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-228.71	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 33.C Estimated resource use for field operations, per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Conv Hyb Trt	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CvH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.65	0.65	5.21	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 33.D Estimated costs for field operations, per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Conv Hyb Trt	lb	145.13					5.99	151.12		151.12
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CvH(Levee)	lb	8.20					0.34	8.54		8.54
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	4.50	96.22	15.30	34.20		4.67	154.89	66.73	221.62
TOTALS		827.55	126.95	36.48	61.69	0.00	33.25	1085.92	161.59	1247.51

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 33.E Estimated monthly income and expense flows per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	154.56	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	17.15	7.71	8.61	8.61	9.94	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.99	25.22	25.22	25.22	10.24	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.21	8.20	2.29	2.29	9.47	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.33	10.53	4.04	2.06	2.27	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	285.50	316.49	150.74	101.62	166.92	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-285.50	-316.49	-150.74	-101.62	851.88	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-332.00	-648.49	-799.23	-900.85	-48.97	-67.12

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs

Table 33.F Estimated returns for various price/yield combinations, per acre
Conventional hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-635	-609	-584	-559	-533	-508	-482	-457	-431	-406	-380
			-797	-771	-746	-720	-695	-669	-644	-618	-593	-567	-542
60	108.00	bu	-572	-542	-511	-481	-450	-419	-389	-358	-328	-297	-267
			-734	-703	-673	-642	-612	-581	-550	-520	-489	-459	-428
70	126.00	bu	-509	-474	-438	-403	-367	-331	-296	-260	-224	-189	-153
			-671	-635	-600	-564	-528	-493	-457	-421	-386	-350	-315
80	144.00	bu	-447	-406	-365	-325	-284	-243	-202	-162	-121	-80	-39
			-608	-568	-527	-486	-445	-405	-364	-323	-282	-242	-201
90	162.00	bu	-384	-338	-292	-247	-201	-155	-109	-63	-17	28	73
			-546	-500	-454	-408	-362	-316	-271	-225	-179	-133	-87
100	180.00	bu	-321	-270	-219	-169	-118	-67	-16	34	85	136	187
			-483	-432	-381	-330	-279	-228	-177	-126	-75	-24	25
110	198.00	bu	-259	-203	-147	-90	-34	21	77	133	189	245	301
			-420	-364	-308	-252	-196	-140	-84	-28	27	83	139
120	216.00	bu	-196	-135	-74	-12	48	109	170	231	292	353	414
			-357	-296	-235	-174	-113	-52	8	69	131	192	253
130	234.00	bu	-133	-67	-1	65	131	197	263	329	396	462	528
			-295	-229	-162	-96	-30	35	102	168	234	300	366
140	252.00	bu	-70	0	71	143	214	285	356	428	499	570	642
			-232	-161	-89	-18	52	124	195	266	338	409	480
150	270.00	bu	-8	68	144	221	297	373	450	526	603	679	755
			-169	-93	-16	59	135	212	288	365	441	517	594

The top number in each cell is Returns Above Direct Expenses.
The bottom number in each cell is Returns Above Total Specified Expenses.
Only the product listed has been varied to calculate net returns.
Note: Cost of production estimates are based on 2023 input prices.

Table 34.A Estimated costs per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Conv Hyb Trt	lb	6.31	23.0000	145.13	_____
Rice Seed CvH(Levee)	lb	1.93	4.2500	8.20	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4999	8.98	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2043	24.77	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	21.9949	75.67	_____
REPAIR & MAINTENANCE					
Implements	acre	10.16	1.0000	10.16	_____
Tractors	acre	5.21	1.0000	5.21	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	32.26	1.0000	32.26	_____

TOTAL DIRECT EXPENSES				1052.78	_____
FIXED EXPENSES					
Implements	acre	28.34	1.0000	28.34	_____
Tractors	acre	40.22	1.0000	40.22	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____

TOTAL FIXED EXPENSES				191.65	_____

TOTAL SPECIFIED EXPENSES				1244.43	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 34.B Summary of estimated costs and returns per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.43	1.0000	45.43	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	9.09	1.0000	9.09	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	17.94	0.6099	10.95	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	31.6056	108.72	_____
REPAIR & MAINTENANCE	acre	36.10	1.0000	36.10	_____
INTEREST ON OP. CAP.	acre	32.26	1.0000	32.26	_____
TOTAL DIRECT EXPENSES				1052.78	_____
RETURNS ABOVE DIRECT EXPENSES				-33.98	_____
TOTAL FIXED EXPENSES				191.65	_____
TOTAL SPECIFIED EXPENSES				1244.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-225.63	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 34.C Estimated resource use for field operations, per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Conv Hyb Trt	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CvH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.60	0.60	4.01	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 34.D Estimated costs for field operations, per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Conv Hyb Trt	lb	145.13					5.99	151.12		151.12
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CvH(Levee)	lb	8.20					0.34	8.54		8.54
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	2.25	77.99	14.92	22.91		3.68	121.75	96.79	218.54
TOTALS		825.30	108.72	36.10	50.40	0.00	32.26	1052.78	191.65	1244.43

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 34.E Estimated monthly income and expense flows per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	154.56	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	13.04	5.44	6.34	6.34	9.57	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.19	19.62	19.62	19.62	9.61	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.32	8.09	2.18	2.18	9.31	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.03	10.26	3.81	1.89	2.25	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	278.15	308.24	142.53	93.47	165.74	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-278.15	-308.24	-142.53	-93.47	853.06	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-324.65	-632.89	-775.42	-868.89	-15.83	-33.98

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 34.F Estimated returns for various price/yield combinations, per acre
Conventional hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-602	-576	-551	-525	-500	-474	-449	-424	-398	-373	-347
			-793	-768	-743	-717	-692	-666	-641	-615	-590	-564	-539
60	108.00	bu	-539	-509	-478	-447	-417	-386	-356	-325	-295	-264	-233
			-731	-700	-670	-639	-608	-578	-547	-517	-486	-456	-425
70	126.00	bu	-476	-441	-405	-369	-334	-298	-262	-227	-191	-155	-120
			-668	-632	-597	-561	-525	-490	-454	-418	-383	-347	-311
80	144.00	bu	-414	-373	-332	-291	-251	-210	-169	-128	-88	-47	-6
			-605	-565	-524	-483	-442	-402	-361	-320	-279	-239	-198
90	162.00	bu	-351	-305	-259	-213	-168	-122	-76	-30	15	61	107
			-543	-497	-451	-405	-359	-313	-267	-222	-176	-130	-84
100	180.00	bu	-288	-237	-186	-135	-84	-33	16	67	118	169	220
			-480	-429	-378	-327	-276	-225	-174	-123	-72	-21	29
110	198.00	bu	-225	-169	-113	-57	-1	54	110	166	222	278	334
			-417	-361	-305	-249	-193	-137	-81	-25	30	86	142
120	216.00	bu	-163	-102	-40	20	81	142	203	264	325	386	448
			-354	-293	-232	-171	-110	-49	11	73	134	195	256
130	234.00	bu	-100	-34	31	98	164	230	296	363	429	495	561
			-292	-225	-159	-93	-27	38	105	171	237	303	370
140	252.00	bu	-37	33	104	176	247	318	390	461	532	604	675
			-229	-158	-86	-15	55	127	198	269	341	412	483
150	270.00	bu	24	101	177	254	330	406	483	559	636	712	789
			-166	-90	-13	62	138	215	291	368	444	520	597

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 2023 input prices.

Table 35.A Estimated costs per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Conv Hyb Trt	lb	6.31	23.0000	145.13	_____
Rice Seed CvH(Levee)	lb	1.93	4.2500	8.20	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5281	9.48	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.4504	25.62	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	18.7364	64.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.26	1.0000	10.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	31.96	1.0000	31.96	_____

TOTAL DIRECT EXPENSES				1039.45	_____
FIXED EXPENSES					
Implements	acre	29.37	1.0000	29.37	_____
Tractors	acre	41.59	1.0000	41.59	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____

TOTAL FIXED EXPENSES				193.70	_____

TOTAL SPECIFIED EXPENSES				1233.15	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 35.B Summary of estimated costs and returns per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.43	1.0000	45.43	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	9.09	1.0000	9.09	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	17.94	0.6381	11.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	28.5932	98.34	_____
REPAIR & MAINTENANCE	acre	36.03	1.0000	36.03	_____
INTEREST ON OP. CAP.	acre	31.96	1.0000	31.96	_____
TOTAL DIRECT EXPENSES				1039.45	_____
RETURNS ABOVE DIRECT EXPENSES				-20.65	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1233.15	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-214.35	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 35.C Estimated resource use for field operations, per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Conv Hyb Trt	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CvH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.63	0.63	2.82	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 35.D Estimated costs for field operations, per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Conv Hyb Trt	lb	145.13					5.99	151.12		151.12
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CvH(Levee)	lb	8.20					0.34	8.54		8.54
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	10.17	67.61	14.85	12.41		3.38	108.42	98.84	207.26
TOTALS		833.22	98.34	36.03	39.90	0.00	31.96	1039.45	193.70	1233.15

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 35.E Estimated monthly income and expense flows per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	154.56	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	10.94	2.72	3.62	3.62	9.33	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	23.05	16.81	16.81	16.81	9.80	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.43	8.01	2.10	2.10	9.37	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.18	10.06	3.66	1.78	2.26	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	282.09	302.43	136.77	87.75	165.76	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-282.09	-302.43	-136.77	-87.75	853.04	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-328.59	-631.02	-767.79	-855.54	-2.50	-20.65

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 35.F Estimated returns for various price/yield combinations, per acre
Conventional hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-588	-563	-538	-512	-487	-461	-436	-410	-385	-359	-334
			-782	-757	-731	-706	-680	-655	-629	-604	-578	-553	-527
60	108.00	bu	-526	-495	-465	-434	-403	-373	-342	-312	-281	-251	-220
			-719	-689	-658	-628	-597	-567	-536	-505	-475	-444	-414
70	126.00	bu	-463	-427	-392	-356	-320	-285	-249	-213	-178	-142	-106
			-657	-621	-585	-550	-514	-478	-443	-407	-371	-336	-300
80	144.00	bu	-400	-360	-319	-278	-237	-197	-156	-115	-74	-34	6
			-594	-553	-512	-472	-431	-390	-349	-309	-268	-227	-186
90	162.00	bu	-338	-292	-246	-200	-154	-108	-62	-17	28	74	120
			-531	-485	-440	-394	-348	-302	-256	-210	-165	-119	-73
100	180.00	bu	-275	-224	-173	-122	-71	-20	30	81	132	183	234
			-469	-418	-367	-316	-265	-214	-163	-112	-61	-10	40
110	198.00	bu	-212	-156	-100	-44	11	67	123	179	235	291	347
			-406	-350	-294	-238	-182	-126	-70	-14	41	97	154
120	216.00	bu	-149	-88	-27	33	94	155	216	277	339	400	461
			-343	-282	-221	-160	-99	-37	23	84	145	206	267
130	234.00	bu	-87	-20	45	111	177	243	310	376	442	508	575
			-280	-214	-148	-82	-15	50	116	182	248	315	381
140	252.00	bu	-24	46	118	189	260	332	403	474	546	617	688
			-218	-146	-75	-4	67	138	209	281	352	423	495
150	270.00	bu	38	114	191	267	343	420	496	573	649	725	802
			-155	-79	-2	73	150	226	303	379	455	532	608

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 2023 input prices.

Table 36.A Estimated costs per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Regiment	oz	45.96	0.5000	22.98	_____
Facet L	pt	17.50	2.0000	35.00	_____
Permit	oz	19.50	0.6700	13.07	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Conv Hyb Trt	lb	6.31	23.0000	145.13	_____
Rice Seed CvH(Levee)	lb	1.93	4.2500	8.20	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	6.88	0.5000	3.44	_____
Crop Oil Conc.(Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4228	7.59	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.45	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	15.4779	53.24	_____
REPAIR & MAINTENANCE					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	4.72	1.0000	4.72	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	30.87	1.0000	30.87	_____

TOTAL DIRECT EXPENSES				1007.89	_____
FIXED EXPENSES					
Implements	acre	27.66	1.0000	27.66	_____
Tractors	acre	36.48	1.0000	36.48	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____

TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1194.42	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 36.B Summary of estimated costs and returns per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.43	1.0000	45.43	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	162.02	1.0000	162.02	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	9.09	1.0000	9.09	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	17.94	0.5328	9.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	24.4137	83.97	_____
REPAIR & MAINTENANCE	acre	32.98	1.0000	32.98	_____
INTEREST ON OP. CAP.	acre	30.87	1.0000	30.87	_____
TOTAL DIRECT EXPENSES				1007.89	_____
RETURNS ABOVE DIRECT EXPENSES				10.91	_____
TOTAL FIXED EXPENSES				186.53	_____
TOTAL SPECIFIED EXPENSES				1194.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-175.62	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 36.C Estimated resource use for field operations, per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Conv Hyb Trt	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CvH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Regiment	oz					0.5000				
Dyne-A-Pak	pt					0.5000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Permit	oz					0.6700				
Crop Oil Conc.(Pet.)	pt					0.4000				
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
							-------	-------	-------	-------
TOTALS							0.53	0.53	2.61	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 36.D Estimated costs for field operations, per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Conv Hyb Trt	lb	145.13					5.99	151.12		151.12
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CvH(Levee)	lb	8.20					0.34	8.54		8.54
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Regiment	oz	22.98					0.79	23.77		23.77
Dyne-A-Pak	pt	3.44					0.12	3.56		3.56
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	8.11					0.28	8.39		8.39
Facet L	pt	35.00					1.20	36.20		36.20
Permit	oz	13.07					0.45	13.52		13.52
Crop Oil Conc.(Pet.)	pt	1.14					0.04	1.18		1.18
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre		53.24	11.80	9.53		2.29	76.86	91.67	168.53
TOTALS		823.05	83.97	32.98	37.02	0.00	30.87	1007.89	186.53	1194.42

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests
Soil test cost is prorated for a test every 3rd year.

Table 36.E Estimated monthly income and expense flows per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	8.11	16.22	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	54.48	71.05	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	154.56	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.17	4.58	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	7.80	3.18	4.08	4.08	8.21	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	18.02	14.01	14.01	14.01	8.86	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	5.30	7.46	1.55	1.55	9.10	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	10.37	9.96	3.58	1.72	2.22	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	261.81	299.44	133.80	84.80	163.39	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-261.81	-299.44	-133.80	-84.80	855.41	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-308.31	-607.75	-741.55	-826.35	29.06	10.91

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 36.F Estimated returns for various price/yield combinations, per acre
Conventional hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-557	-531	-506	-481	-455	-430	-404	-379	-353	-328	-302
			-743	-718	-693	-667	-642	-616	-591	-565	-540	-514	-489
60	108.00	bu	-494	-464	-433	-402	-372	-341	-311	-280	-250	-219	-189
			-681	-650	-620	-589	-558	-528	-497	-467	-436	-406	-375
70	126.00	bu	-431	-396	-360	-324	-289	-253	-218	-182	-146	-111	-75
			-618	-582	-547	-511	-475	-440	-404	-368	-333	-297	-261
80	144.00	bu	-369	-328	-287	-246	-206	-165	-124	-83	-43	-2	38
			-555	-515	-474	-433	-392	-352	-311	-270	-229	-189	-148
90	162.00	bu	-306	-260	-214	-168	-123	-77	-31	14	60	106	151
			-493	-447	-401	-355	-309	-263	-217	-172	-126	-80	-34
100	180.00	bu	-243	-192	-141	-90	-40	10	61	112	163	214	265
			-430	-379	-328	-277	-226	-175	-124	-73	-22	28	79
110	198.00	bu	-181	-125	-68	-12	43	99	155	211	267	323	379
			-367	-311	-255	-199	-143	-87	-31	24	80	136	192
120	216.00	bu	-118	-57	3	65	126	187	248	309	370	431	492
			-304	-243	-182	-121	-60	0	61	123	184	245	306
130	234.00	bu	-55	10	76	143	209	275	341	407	474	540	606
			-242	-175	-109	-43	22	88	155	221	287	353	420
140	252.00	bu	7	78	149	221	292	363	435	506	577	648	720
			-179	-108	-36	34	105	177	248	319	391	462	533
150	270.00	bu	69	146	222	299	375	451	528	604	681	757	833
			-116	-40	36	112	188	265	341	418	494	570	647

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 2023 input prices.

Table 37.A Estimated costs per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Clearpath	oz	4.24	9.6000	40.70	_____
Newpath	oz	4.28	6.0000	25.68	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.30	65.0000	84.50	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
Rice Seed CF(Levees)	lb	1.30	12.0000	15.60	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	1.34	1.5000	2.01	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5475	9.83	_____
Harvesters	hour	17.94	0.1269	2.28	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL					
Tractors	gal	3.44	7.6209	26.20	_____
Harvesters	gal	3.44	2.7765	9.55	_____
Flood Irr.	gal	3.44	26.8827	92.47	_____
REPAIR & MAINTENANCE					
Implements	acre	10.61	1.0000	10.61	_____
Tractors	acre	5.51	1.0000	5.51	_____
Harvesters	acre	7.40	1.0000	7.40	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	33.31	1.0000	33.31	_____

TOTAL DIRECT EXPENSES				1092.15	_____
FIXED EXPENSES					
Implements	acre	29.62	1.0000	29.62	_____
Tractors	acre	42.54	1.0000	42.54	_____
Harvesters	acre	35.45	1.0000	35.45	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____

TOTAL FIXED EXPENSES				167.05	_____

TOTAL SPECIFIED EXPENSES				1259.20	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 37.B Summary of estimated costs and returns per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____

TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	169.55	1.0000	169.55	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	122.43	1.0000	122.43	_____
ADJUVANTS	acre	16.28	1.0000	16.28	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	17.94	0.6745	12.11	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL	gal	3.44	37.2802	128.22	_____
REPAIR & MAINTENANCE	acre	37.83	1.0000	37.83	_____
INTEREST ON OP. CAP.	acre	33.31	1.0000	33.31	_____

TOTAL DIRECT EXPENSES				1092.15	_____
RETURNS ABOVE DIRECT EXPENSES				-186.55	_____
TOTAL FIXED EXPENSES				167.05	_____

TOTAL SPECIFIED EXPENSES				1259.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-353.60	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 37.C Estimated resource use for field operations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Clearfield	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
Class Act NG	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	oz					9.6000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Newpath	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	40' Rigid	425 hp	0.126	1.00	Aug		0.12	0.12	0.12	0.11
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.67	0.67	6.02	0.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 37.D Estimated costs for field operations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Clearfield	lb	84.50					3.49	87.99		87.99
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
Class Act NG	pt	2.50					0.10	2.60		2.60
MSO	pt	0.67					0.03	0.70		0.70
Seed Levees										
Rice Seed CF(Levees)	lb	15.60					0.64	16.24		16.24
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Clearpath	oz	40.70					1.68	42.38		42.38
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Newpath	oz	25.68					0.88	26.56		26.56
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				2.72		0.09	2.81		2.81
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				4.53		0.12	4.65		4.65
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				4.53		0.09	4.62		4.62
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (CL)	40' Rigid		9.55	10.17	4.33		0.33	24.38	40.92	65.30
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	4.50	96.22	15.30	34.20		4.67	154.89	66.73	221.62
TOTALS		823.27	128.22	37.83	69.52	0.00	33.31	1092.15	167.05	1259.20

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 37.E Estimated monthly income and expense flows per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	95.18	37.88	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	122.43	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	17.15	9.52	11.33	11.33	10.52	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.99	25.22	25.22	25.22	11.51	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.21	8.20	2.29	2.29	10.82	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	12.25	9.02	4.11	2.81	2.10	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	308.82	271.47	153.53	138.73	154.95	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-308.82	-271.47	-153.53	-138.73	750.65	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-355.32	-626.79	-780.32	-919.05	-168.40	-186.55

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 37.F Estimated returns for various price/yield combinations, per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-691	-669	-646	-623	-601	-578	-555	-533	-510	-487	-465
			-858	-836	-813	-790	-768	-745	-722	-700	-677	-655	-632
60	96.00	bu	-635	-608	-581	-554	-527	-500	-472	-445	-418	-391	-364
			-803	-775	-748	-721	-694	-667	-640	-612	-585	-558	-531
70	112.00	bu	-580	-548	-516	-485	-453	-421	-390	-358	-326	-294	-263
			-747	-715	-683	-652	-620	-588	-557	-525	-493	-462	-430
80	128.00	bu	-524	-488	-452	-415	-379	-343	-307	-270	-234	-198	-162
			-691	-655	-619	-582	-546	-510	-474	-437	-401	-365	-329
90	144.00	bu	-468	-427	-387	-346	-305	-264	-224	-183	-142	-101	-61
			-635	-595	-554	-513	-472	-431	-391	-350	-309	-268	-228
100	160.00	bu	-412	-367	-322	-277	-231	-186	-141	-95	-50	-5	39
			-580	-534	-489	-444	-398	-353	-308	-263	-217	-172	-127
110	176.00	bu	-357	-307	-257	-207	-157	-108	-58	-8	41	91	140
			-524	-474	-424	-374	-325	-275	-225	-175	-125	-75	-26
120	192.00	bu	-301	-247	-192	-138	-84	-29	24	78	133	187	241
			-468	-414	-359	-305	-251	-196	-142	-88	-33	20	74
130	208.00	bu	-245	-186	-127	-69	-10	48	107	166	225	284	342
			-412	-353	-295	-236	-177	-118	-59	-0	58	117	175
140	224.00	bu	-189	-126	-63	0	63	127	190	253	317	380	443
			-356	-293	-230	-166	-103	-40	23	86	150	213	276
150	240.00	bu	-134	-66	1	69	137	205	273	341	409	477	545
			-301	-233	-165	-97	-29	38	106	174	242	310	377

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 2023 input prices.

Table 38.A Estimated costs per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Clearpath	oz	4.24	9.6000	40.70	_____
Newpath	oz	4.28	6.0000	25.68	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.30	65.0000	84.50	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
Rice Seed CF(Levees)	lb	1.30	12.0000	15.60	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4999	8.98	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2043	24.77	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	21.9949	75.67	_____
REPAIR & MAINTENANCE					
Implements	acre	10.16	1.0000	10.16	_____
Tractors	acre	5.21	1.0000	5.21	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	32.10	1.0000	32.10	_____
TOTAL DIRECT EXPENSES				1048.34	_____
FIXED EXPENSES					
Implements	acre	28.34	1.0000	28.34	_____
Tractors	acre	40.22	1.0000	40.22	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				191.65	_____
TOTAL SPECIFIED EXPENSES				1239.99	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 38.B Summary of estimated costs and returns per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____

TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	169.55	1.0000	169.55	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	122.43	1.0000	122.43	_____
ADJUVANTS	acre	16.28	1.0000	16.28	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	17.94	0.6099	10.95	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	31.6056	108.72	_____
REPAIR & MAINTENANCE	acre	36.10	1.0000	36.10	_____
INTEREST ON OP. CAP.	acre	32.10	1.0000	32.10	_____

TOTAL DIRECT EXPENSES				1048.34	_____
RETURNS ABOVE DIRECT EXPENSES				-142.74	_____
TOTAL FIXED EXPENSES				191.65	_____

TOTAL SPECIFIED EXPENSES				1239.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-334.39	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 38.C Estimated resource use for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Clearfield	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	oz					9.6000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Newpath	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.60	0.60	4.01	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 38.D Estimated costs for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Clearfield	lb	84.50					3.49	87.99		87.99
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CF(Levees)	lb	15.60					0.64	16.24		16.24
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Clearpath	oz	40.70					1.68	42.38		42.38
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Newpath	oz	25.68					0.88	26.56		26.56
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	2.25	77.99	14.92	22.91		3.68	121.75	96.79	218.54
TOTALS		821.02	108.72	36.10	50.40	0.00	32.10	1048.34	191.65	1239.99

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 38.E Estimated monthly income and expense flows per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	95.18	37.88	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	122.43	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	13.04	5.44	6.34	6.34	9.57	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.19	19.62	19.62	19.62	9.61	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.32	8.09	2.18	2.18	9.31	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.95	8.69	3.81	2.59	2.04	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	301.47	261.35	142.53	127.81	150.53	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-301.47	-261.35	-142.53	-127.81	755.07	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-347.97	-609.32	-751.85	-879.66	-124.59	-142.74

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs

Table 38.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-647	-625	-602	-579	-557	-534	-512	-489	-466	-444	-421
			-839	-816	-794	-771	-749	-726	-703	-681	-658	-635	-613
60	96.00	bu	-592	-564	-537	-510	-483	-456	-429	-401	-374	-347	-320
			-783	-756	-729	-702	-675	-647	-620	-593	-566	-539	-512
70	112.00	bu	-536	-504	-473	-441	-409	-377	-346	-314	-282	-251	-219
			-728	-696	-664	-632	-601	-569	-537	-506	-474	-442	-411
80	128.00	bu	-480	-444	-408	-371	-335	-299	-263	-227	-190	-154	-118
			-672	-636	-599	-563	-527	-491	-454	-418	-382	-346	-310
90	144.00	bu	-424	-384	-343	-302	-261	-221	-180	-139	-98	-58	-17
			-616	-575	-535	-494	-453	-412	-372	-331	-290	-249	-209
100	160.00	bu	-369	-323	-278	-233	-188	-142	-97	-52	-6	38	83
			-560	-515	-470	-424	-379	-334	-289	-243	-198	-153	-107
110	176.00	bu	-313	-263	-213	-163	-114	-64	-14	35	85	134	184
			-505	-455	-405	-355	-305	-255	-206	-156	-106	-56	-6
120	192.00	bu	-257	-203	-148	-94	-40	14	68	122	177	231	285
			-449	-394	-340	-286	-231	-177	-123	-68	-14	39	94
130	208.00	bu	-201	-143	-84	-25	33	92	151	210	269	327	386
			-393	-334	-275	-216	-158	-99	-40	18	77	136	195
140	224.00	bu	-146	-82	-19	44	107	170	234	297	361	424	487
			-337	-274	-210	-147	-84	-20	42	105	169	232	296
150	240.00	bu	-90	-22	45	113	181	249	317	385	452	520	588
			-282	-214	-146	-78	-10	57	125	193	261	329	397

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 2023 input prices.

Table 39.A Estimated costs per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Clearpath	oz	4.24	9.6000	40.70	_____
Newpath	oz	4.28	6.0000	25.68	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.30	65.0000	84.50	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
Rice Seed CF(Levees)	lb	1.30	12.0000	15.60	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5281	9.48	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.4504	25.62	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	18.7364	64.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.26	1.0000	10.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	31.80	1.0000	31.80	_____
TOTAL DIRECT EXPENSES				1035.01	_____
FIXED EXPENSES					
Implements	acre	29.37	1.0000	29.37	_____
Tractors	acre	41.59	1.0000	41.59	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1228.71	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 39.B Summary of estimated costs and returns per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____
TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	169.55	1.0000	169.55	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	122.43	1.0000	122.43	_____
ADJUVANTS	acre	16.28	1.0000	16.28	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	17.94	0.6381	11.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	28.5932	98.34	_____
REPAIR & MAINTENANCE	acre	36.03	1.0000	36.03	_____
INTEREST ON OP. CAP.	acre	31.80	1.0000	31.80	_____
TOTAL DIRECT EXPENSES				1035.01	_____
RETURNS ABOVE DIRECT EXPENSES				-129.41	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1228.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-323.11	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 39.C Estimated resource use for field operations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Clearfield	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	oz					9.6000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Newpath	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	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							0.63	0.63	2.82	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 39.D Estimated costs for field operations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Clearfield	lb	84.50					3.49	87.99		87.99
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CF(Levees)	lb	15.60					0.64	16.24		16.24
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Clearpath	oz	40.70					1.68	42.38		42.38
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Newpath	oz	25.68					0.88	26.56		26.56
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	10.17	67.61	14.85	12.41		3.38	108.42	98.84	207.26
TOTALS		828.94	98.34	36.03	39.90	0.00	31.80	1035.01	193.70	1228.71

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 39.E Estimated monthly income and expense flows per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	95.18	37.88	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	122.43	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	10.94	2.72	3.62	3.62	9.33	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	23.05	16.81	16.81	16.81	9.80	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.43	8.01	2.10	2.10	9.37	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	12.10	8.49	3.66	2.48	2.05	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	305.41	255.54	136.77	122.09	150.55	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-305.41	-255.54	-136.77	-122.09	755.05	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-351.91	-607.45	-744.22	-866.31	-111.26	-129.41

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 39.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-634	-611	-589	-566	-544	-521	-498	-476	-453	-430	-408
			-828	-805	-783	-760	-737	-715	-692	-669	-647	-624	-601
60	96.00	bu	-578	-551	-524	-497	-470	-442	-415	-388	-361	-334	-307
			-772	-745	-718	-691	-663	-636	-609	-582	-555	-528	-500
70	112.00	bu	-523	-491	-459	-427	-396	-364	-332	-301	-269	-237	-206
			-716	-685	-653	-621	-589	-558	-526	-494	-463	-431	-399
80	128.00	bu	-467	-431	-394	-358	-322	-286	-249	-213	-177	-141	-105
			-661	-624	-588	-552	-516	-479	-443	-407	-371	-335	-298
90	144.00	bu	-411	-370	-330	-289	-248	-207	-167	-126	-85	-44	-4
			-605	-564	-523	-483	-442	-401	-360	-320	-279	-238	-197
100	160.00	bu	-355	-310	-265	-219	-174	-129	-84	-38	6	51	96
			-549	-504	-458	-413	-368	-323	-277	-232	-187	-141	-96
110	176.00	bu	-300	-250	-200	-150	-100	-51	-1	48	98	148	198
			-493	-443	-394	-344	-294	-244	-194	-145	-95	-45	4
120	192.00	bu	-244	-189	-135	-81	-26	27	81	136	190	244	299
			-438	-383	-329	-274	-220	-166	-111	-57	-3	51	105
130	208.00	bu	-188	-129	-70	-11	46	105	164	223	282	341	400
			-382	-323	-264	-205	-146	-87	-29	29	88	147	206
140	224.00	bu	-132	-69	-6	57	120	184	247	310	374	437	501
			-326	-263	-199	-136	-72	-9	53	117	180	244	307
150	240.00	bu	-77	-9	58	126	194	262	330	398	466	534	602
			-270	-202	-134	-66	0	68	136	204	272	340	408

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 2023 input prices.

Table 40.A Estimated costs per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Clearpath	oz	4.24	9.6000	40.70	_____
Newpath	oz	4.28	6.0000	25.68	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.30	65.0000	84.50	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
Rice Seed CF(Levees)	lb	1.30	12.0000	15.60	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	160.0000	56.00	_____
DRYING					
Dry Rice	bu	0.40	160.0000	64.00	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4228	7.59	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.45	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	15.4779	53.24	_____
REPAIR & MAINTENANCE					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	4.72	1.0000	4.72	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	30.71	1.0000	30.71	_____

TOTAL DIRECT EXPENSES				1003.45	_____
FIXED EXPENSES					
Implements	acre	27.66	1.0000	27.66	_____
Tractors	acre	36.48	1.0000	36.48	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____

TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1189.98	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 40.B Summary of estimated costs and returns per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	160.0000	905.60	_____

TOTAL INCOME				905.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	169.55	1.0000	169.55	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	122.43	1.0000	122.43	_____
ADJUVANTS	acre	16.28	1.0000	16.28	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	56.00	1.0000	56.00	_____
DRYING	acre	64.00	1.0000	64.00	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	17.94	0.5328	9.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	24.4137	83.97	_____
REPAIR & MAINTENANCE	acre	32.98	1.0000	32.98	_____
INTEREST ON OP. CAP.	acre	30.71	1.0000	30.71	_____

TOTAL DIRECT EXPENSES				1003.45	_____
RETURNS ABOVE DIRECT EXPENSES				-97.85	_____
TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1189.98	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-284.38	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 40.C Estimated resource use for field operations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Clearfield	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	oz					9.6000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Newpath	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	160.0000				
Dry Rice	bu			1.00	Aug	160.0000				
Disk Heavy	28'	MFWD 300	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
							-------	-------	-------	-------
TOTALS							0.53	0.53	2.61	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 40.D Estimated costs for field operations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Clearfield	lb	84.50					3.49	87.99		87.99
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed CF(Levees)	lb	15.60					0.64	16.24		16.24
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Clearpath	oz	40.70					1.68	42.38		42.38
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Newpath	oz	25.68					0.88	26.56		26.56
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	56.00					0.77	56.77		56.77
Dry Rice	bu	64.00					0.88	64.88		64.88
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre		53.24	11.80	9.53		2.29	76.86	91.67	168.53
TOTALS		818.77	83.97	32.98	37.02	0.00	30.71	1003.45	186.53	1189.98

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 40.E Estimated monthly income and expense flows per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

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	905.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	95.18	37.88	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	122.43	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	56.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	7.80	3.18	4.08	4.08	8.21	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	18.02	14.01	14.01	14.01	8.86	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	5.30	7.46	1.55	1.55	9.10	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.29	8.39	3.58	2.42	2.01	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	285.13	252.55	133.80	119.14	148.18	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-285.13	-252.55	-133.80	-119.14	757.42	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-331.63	-584.18	-717.98	-837.12	-79.70	-97.85

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs

Table 40.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-603	-580	-557	-535	-512	-489	-467	-444	-421	-399	-376
			-789	-766	-744	-721	-698	-676	-653	-631	-608	-585	-563
60	96.00	bu	-547	-520	-492	-465	-438	-411	-384	-357	-329	-302	-275
			-733	-706	-679	-652	-625	-597	-570	-543	-516	-489	-462
70	112.00	bu	-491	-459	-428	-396	-364	-333	-301	-269	-237	-206	-174
			-678	-646	-614	-582	-551	-519	-487	-456	-424	-392	-361
80	128.00	bu	-435	-399	-363	-327	-290	-254	-218	-182	-145	-109	-73
			-622	-586	-549	-513	-477	-441	-404	-368	-332	-296	-260
90	144.00	bu	-380	-339	-298	-257	-216	-176	-135	-94	-53	-13	27
			-566	-525	-485	-444	-403	-362	-322	-281	-240	-199	-159
100	160.00	bu	-324	-278	-233	-188	-143	-97	-52	-7	37	83	128
			-510	-465	-420	-374	-329	-284	-239	-193	-148	-103	-57
110	176.00	bu	-268	-218	-168	-119	-69	-19	30	80	129	179	229
			-455	-405	-355	-305	-255	-205	-156	-106	-56	-6	43
120	192.00	bu	-212	-158	-104	-49	4	58	113	167	221	276	330
			-399	-344	-290	-236	-181	-127	-73	-18	35	89	144
130	208.00	bu	-156	-98	-39	19	78	137	196	255	313	372	431
			-343	-284	-225	-166	-108	-49	9	68	127	186	245
140	224.00	bu	-101	-37	25	88	152	215	279	342	405	469	532
			-287	-224	-160	-97	-34	29	92	155	219	282	346
150	240.00	bu	-45	22	90	158	226	294	362	429	497	565	633
			-232	-164	-96	-28	39	107	175	243	311	379	447

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 2023 input prices.

Table 41.A Estimated costs per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.5000	28.39	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	2.1000	14.43	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Preface	oz	4.99	11.0000	54.89	_____
Facet L	pt	17.50	2.0000	35.00	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	14.4000	16.27	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Fullpage Hyb Tr	lb	6.34	23.0000	145.82	_____
Rice Seed FPH(Levee)	lb	6.34	4.2500	26.95	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5475	9.83	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.6209	26.20	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	26.8827	92.47	_____
REPAIR & MAINTENANCE					
Implements	acre	10.24	1.0000	10.24	_____
Tractors	acre	5.51	1.0000	5.51	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	36.21	1.0000	36.21	_____

TOTAL DIRECT EXPENSES				1161.41	_____
FIXED EXPENSES					
Implements	acre	28.89	1.0000	28.89	_____
Tractors	acre	42.54	1.0000	42.54	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____

TOTAL FIXED EXPENSES				161.59	_____

TOTAL SPECIFIED EXPENSES				1323.00	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 41.B Summary of estimated costs and returns per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.39	1.0000	53.39	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	193.06	1.0000	193.06	_____
INSECTICIDES	acre	18.08	1.0000	18.08	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	15.95	1.0000	15.95	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	17.94	0.6575	11.80	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	36.9100	126.95	_____
REPAIR & MAINTENANCE	acre	36.48	1.0000	36.48	_____
INTEREST ON OP. CAP.	acre	36.21	1.0000	36.21	_____
TOTAL DIRECT EXPENSES				1161.41	_____
RETURNS ABOVE DIRECT EXPENSES				-142.61	_____
TOTAL FIXED EXPENSES				161.59	_____
TOTAL SPECIFIED EXPENSES				1323.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-304.20	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 41.C Estimated resource use for field operations, per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed FPH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Preface	oz					5.0000				
Facet L	pt					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
App by Air (10 gal)	appl			1.00	May	1.0000				
Preface	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.80	Jul	1.8000				
Tenchu SG	oz					14.4000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.65	0.65	5.21	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 41.D Estimated costs for field operations, per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Fullpage Hyb Tr	lb	145.82					6.02	151.84		151.84
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed FPH(Levee)	lb	26.95					1.11	28.06		28.06
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Preface	oz	24.95					1.03	25.98		25.98
Facet L	pt	35.00					1.44	36.44		36.44
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Preface	oz	29.94					1.03	30.97		30.97
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	12.37					0.26	12.63		12.63
Tenchu SG	oz	16.27					0.34	16.61		16.61
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	4.50	96.22	15.30	34.20		4.67	154.89	66.73	221.62
TOTALS		900.08	126.95	36.48	61.69	0.00	36.21	1161.41	161.59	1323.00

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 41.E Estimated monthly income and expense flows per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	14.43	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	114.43	42.14	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.08	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	17.15	7.71	8.61	8.61	9.94	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.99	25.22	25.22	25.22	10.24	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.21	8.20	2.29	2.29	9.47	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	15.17	9.38	4.04	2.33	2.27	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	382.56	281.92	150.74	114.62	166.92	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-382.56	-281.92	-150.74	-114.62	851.88	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-429.06	-710.98	-861.72	-976.34	-124.46	-142.61

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 41.F Estimated returns for various price/yield combinations, per acre
Fullpage hybrid contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-710	-685	-659	-634	-609	-583	-558	-532	-507	-481	-456
			-872	-847	-821	-796	-770	-745	-719	-694	-668	-643	-617
60	108.00	bu	-648	-617	-587	-556	-525	-495	-464	-434	-403	-373	-342
			-809	-779	-748	-718	-687	-656	-626	-595	-565	-534	-504
70	126.00	bu	-585	-549	-514	-478	-442	-407	-371	-335	-300	-264	-228
			-747	-711	-675	-640	-604	-568	-533	-497	-461	-426	-390
80	144.00	bu	-522	-482	-441	-400	-359	-318	-278	-237	-196	-155	-115
			-684	-643	-602	-562	-521	-480	-439	-399	-358	-317	-276
90	162.00	bu	-460	-414	-368	-322	-276	-230	-184	-139	-93	-47	-1
			-621	-575	-529	-484	-438	-392	-346	-300	-254	-209	-163
100	180.00	bu	-397	-346	-295	-244	-193	-142	-91	-40	10	61	112
			-558	-507	-457	-406	-355	-304	-253	-202	-151	-100	-49
110	198.00	bu	-334	-278	-222	-166	-110	-54	1	57	113	169	225
			-496	-440	-384	-328	-272	-216	-159	-103	-47	8	64
120	216.00	bu	-271	-210	-149	-88	-27	33	94	156	217	278	339
			-433	-372	-311	-250	-188	-127	-66	-5	55	116	177
130	234.00	bu	-209	-142	-76	-10	55	121	188	254	320	386	453
			-370	-304	-238	-172	-105	-39	26	92	159	225	291
140	252.00	bu	-146	-75	-3	67	138	210	281	352	424	495	566
			-308	-236	-165	-94	-22	48	119	191	262	333	405
150	270.00	bu	-83	-7	69	145	221	298	374	451	527	604	680
			-245	-168	-92	-16	60	136	213	289	366	442	518

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 2023 input prices.

Table 42.A Estimated costs per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.5000	28.39	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Preface	oz	4.99	11.0000	54.89	_____
Facet L	pt	17.50	2.0000	35.00	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Fullpage Hyb Tr	lb	6.34	23.0000	145.82	_____
Rice Seed FPH(Levee)	lb	6.34	4.2500	26.95	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4999	8.98	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2043	24.77	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	21.9949	75.67	_____
REPAIR & MAINTENANCE					
Implements	acre	10.16	1.0000	10.16	_____
Tractors	acre	5.21	1.0000	5.21	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	34.95	1.0000	34.95	_____

TOTAL DIRECT EXPENSES				1115.27	_____
FIXED EXPENSES					
Implements	acre	28.34	1.0000	28.34	_____
Tractors	acre	40.22	1.0000	40.22	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____

TOTAL FIXED EXPENSES				191.65	_____

TOTAL SPECIFIED EXPENSES				1306.92	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 42.B Summary of estimated costs and returns per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.89	1.0000	47.89	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	193.06	1.0000	193.06	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	15.95	1.0000	15.95	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	17.94	0.6099	10.95	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	31.6056	108.72	_____
REPAIR & MAINTENANCE	acre	36.10	1.0000	36.10	_____
INTEREST ON OP. CAP.	acre	34.95	1.0000	34.95	_____
TOTAL DIRECT EXPENSES				1115.27	_____
RETURNS ABOVE DIRECT EXPENSES				-96.47	_____
TOTAL FIXED EXPENSES				191.65	_____
TOTAL SPECIFIED EXPENSES				1306.92	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-288.12	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 42.C Estimated resource use for field operations, per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed FPH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Preface	oz					5.0000				
Facet L	pt					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
App by Air (10 gal)	appl			1.00	May	1.0000				
Preface	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.60	0.60	4.01	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 42.D Estimated costs for field operations, per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Fullpage Hyb Tr	lb	145.82					6.02	151.84		151.84
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed FPH(Levee)	lb	26.95					1.11	28.06		28.06
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Preface	oz	24.95					1.03	25.98		25.98
Facet L	pt	35.00					1.44	36.44		36.44
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Preface	oz	29.94					1.03	30.97		30.97
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	2.25	77.99	14.92	22.91		3.68	121.75	96.79	218.54
TOTALS		885.10	108.72	36.10	50.40	0.00	34.95	1115.27	191.65	1306.92

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 42.E Estimated monthly income and expense flows per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	114.43	42.14	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	13.04	5.44	6.34	6.34	9.57	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.19	19.62	19.62	19.62	9.61	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.32	8.09	2.18	2.18	9.31	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	14.87	9.11	3.81	1.89	2.25	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	375.21	273.67	142.53	93.47	165.74	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-375.21	-273.67	-142.53	-93.47	853.06	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-421.71	-695.38	-837.91	-931.38	-78.32	-96.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 42.F Estimated returns for various price/yield combinations, per acre
Fullpage hybrid straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-664	-639	-613	-588	-562	-537	-511	-486	-461	-435	-410
			-856	-830	-805	-780	-754	-729	-703	-678	-652	-627	-601
60	108.00	bu	-602	-571	-540	-510	-479	-449	-418	-388	-357	-326	-296
			-793	-763	-732	-702	-671	-640	-610	-579	-549	-518	-488
70	126.00	bu	-539	-503	-468	-432	-396	-361	-325	-289	-254	-218	-182
			-730	-695	-659	-624	-588	-552	-517	-481	-445	-410	-374
80	144.00	bu	-476	-435	-395	-354	-313	-272	-232	-191	-150	-109	-69
			-668	-627	-586	-546	-505	-464	-423	-383	-342	-301	-260
90	162.00	bu	-413	-368	-322	-276	-230	-184	-138	-92	-47	-1	44
			-605	-559	-513	-468	-422	-376	-330	-284	-238	-192	-147
100	180.00	bu	-351	-300	-249	-198	-147	-96	-45	5	56	107	158
			-542	-491	-440	-390	-339	-288	-237	-186	-135	-84	-33
110	198.00	bu	-288	-232	-176	-120	-64	-8	47	103	159	215	271
			-480	-424	-368	-311	-255	-199	-143	-87	-31	24	80
120	216.00	bu	-225	-164	-103	-42	18	79	141	202	263	324	385
			-417	-356	-295	-233	-172	-111	-50	10	71	132	193
130	234.00	bu	-162	-96	-30	35	101	168	234	300	366	433	499
			-354	-288	-222	-155	-89	-23	42	108	175	241	307
140	252.00	bu	-100	-28	42	113	184	256	327	398	470	541	612
			-291	-220	-149	-77	-6	64	135	207	278	349	421
150	270.00	bu	-37	38	115	191	268	344	420	497	573	650	726
			-229	-152	-76	0	76	152	229	305	382	458	534

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 2023 input prices.

Table 43.A Estimated costs per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.5000	28.39	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Preface	oz	4.99	11.0000	54.89	_____
Facet L	pt	17.50	2.0000	35.00	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Fullpage Hyb Tr	lb	6.34	23.0000	145.82	_____
Rice Seed FPH(Levee)	lb	6.34	4.2500	26.95	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5281	9.48	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.4504	25.62	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	18.7364	64.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.26	1.0000	10.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	34.65	1.0000	34.65	_____

TOTAL DIRECT EXPENSES				1101.94	_____
FIXED EXPENSES					
Implements	acre	29.37	1.0000	29.37	_____
Tractors	acre	41.59	1.0000	41.59	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____

TOTAL FIXED EXPENSES				193.70	_____

TOTAL SPECIFIED EXPENSES				1295.64	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 43.B Summary of estimated costs and returns per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.89	1.0000	47.89	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	193.06	1.0000	193.06	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	15.95	1.0000	15.95	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	17.94	0.6381	11.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	28.5932	98.34	_____
REPAIR & MAINTENANCE	acre	36.03	1.0000	36.03	_____
INTEREST ON OP. CAP.	acre	34.65	1.0000	34.65	_____
TOTAL DIRECT EXPENSES				1101.94	_____
RETURNS ABOVE DIRECT EXPENSES				-83.14	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1295.64	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-276.84	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 43.C Estimated resource use for field operations, per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed FPH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Preface	oz					5.0000				
Facet L	pt					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
App by Air (10 gal)	appl			1.00	May	1.0000				
Preface	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	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							0.63	0.63	2.82	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 43.D Estimated costs for field operations, per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Fullpage Hyb Tr	lb	145.82					6.02	151.84		151.84
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed FPH(Levee)	lb	26.95					1.11	28.06		28.06
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Preface	oz	24.95					1.03	25.98		25.98
Facet L	pt	35.00					1.44	36.44		36.44
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Preface	oz	29.94					1.03	30.97		30.97
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	10.17	67.61	14.85	12.41		3.38	108.42	98.84	207.26
TOTALS		893.02	98.34	36.03	39.90	0.00	34.65	1101.94	193.70	1295.64

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 43.E Estimated monthly income and expense flows per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	114.43	42.14	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	10.94	2.72	3.62	3.62	9.33	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	23.05	16.81	16.81	16.81	9.80	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.43	8.01	2.10	2.10	9.37	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	15.02	8.91	3.66	1.78	2.26	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	379.15	267.86	136.77	87.75	165.76	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-379.15	-267.86	-136.77	-87.75	853.04	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-425.65	-693.51	-830.28	-918.03	-64.99	-83.14

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 43.F Estimated returns for various price/yield combinations, per acre
Fullpage hybrid straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-651	-625	-600	-575	-549	-524	-498	-473	-447	-422	-396
			-845	-819	-794	-768	-743	-717	-692	-666	-641	-615	-590
60	108.00	bu	-588	-558	-527	-497	-466	-435	-405	-374	-344	-313	-283
			-782	-751	-721	-690	-660	-629	-599	-568	-537	-507	-476
70	126.00	bu	-526	-490	-454	-419	-383	-347	-312	-276	-240	-205	-169
			-719	-684	-648	-612	-577	-541	-505	-470	-434	-398	-363
80	144.00	bu	-463	-422	-381	-341	-300	-259	-218	-178	-137	-96	-55
			-656	-616	-575	-534	-493	-453	-412	-371	-330	-290	-249
90	162.00	bu	-400	-354	-308	-263	-217	-171	-125	-79	-33	12	57
			-594	-548	-502	-456	-410	-365	-319	-273	-227	-181	-135
100	180.00	bu	-337	-286	-235	-185	-134	-83	-32	18	69	120	171
			-531	-480	-429	-378	-327	-276	-225	-174	-124	-73	-22
110	198.00	bu	-275	-219	-163	-107	-50	5	61	117	173	229	285
			-468	-412	-356	-300	-244	-188	-132	-76	-20	35	91
120	216.00	bu	-212	-151	-90	-29	32	93	154	215	276	337	398
			-406	-344	-283	-222	-161	-100	-39	21	82	144	205
130	234.00	bu	-149	-83	-17	48	115	181	247	313	380	446	512
			-343	-277	-210	-144	-78	-12	53	120	186	252	318
140	252.00	bu	-86	-15	55	127	198	269	340	412	483	554	626
			-280	-209	-138	-66	4	75	147	218	289	361	432
150	270.00	bu	-24	52	128	205	281	357	434	510	587	663	739
			-217	-141	-65	11	87	164	240	316	393	469	546

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 2023 input prices.

Table 44.A Estimated costs per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.5000	28.39	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.9400	188.24	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Preface	oz	4.99	11.0000	54.89	_____
Facet L	pt	17.50	2.0000	35.00	_____
Aim	oz	8.13	1.5000	12.20	_____
Clincher SF	oz	2.54	7.5000	19.05	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Fullpage Hyb Tr	lb	6.34	23.0000	145.82	_____
Rice Seed FPH(Levee)	lb	6.34	4.2500	26.95	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	1.34	1.5000	2.01	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.9400	55.52	_____
HAULING					
Haul Rice	bu	0.35	180.0000	63.00	_____
DRYING					
Dry Rice	bu	0.40	180.0000	72.00	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4228	7.59	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.45	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	15.4779	53.24	_____
REPAIR & MAINTENANCE					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	4.72	1.0000	4.72	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	33.56	1.0000	33.56	_____

TOTAL DIRECT EXPENSES				1070.38	_____
FIXED EXPENSES					
Implements	acre	27.66	1.0000	27.66	_____
Tractors	acre	36.48	1.0000	36.48	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____

TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1256.91	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 44.B Summary of estimated costs and returns per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	180.0000	1018.80	_____
TOTAL INCOME				1018.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.89	1.0000	47.89	_____
FERTILIZERS	acre	239.25	1.0000	239.25	_____
HERBICIDES	acre	193.06	1.0000	193.06	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	15.95	1.0000	15.95	_____
CUSTOM FERTILIZE	acre	55.52	1.0000	55.52	_____
HAULING	acre	63.00	1.0000	63.00	_____
DRYING	acre	72.00	1.0000	72.00	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	17.94	0.5328	9.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	24.4137	83.97	_____
REPAIR & MAINTENANCE	acre	32.98	1.0000	32.98	_____
INTEREST ON OP. CAP.	acre	33.56	1.0000	33.56	_____
TOTAL DIRECT EXPENSES				1070.38	_____
RETURNS ABOVE DIRECT EXPENSES				-51.58	_____
TOTAL FIXED EXPENSES				186.53	_____
TOTAL SPECIFIED EXPENSES				1256.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-238.11	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 44.C Estimated resource use for field operations, per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed FPH(Levee)	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Preface	oz					5.0000				
Facet L	pt					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
NBPT	pt					0.8000				
App by Air (10 gal)	appl			1.00	May	1.0000				
Preface	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim	oz					1.5000				
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				
MSO	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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	180.0000				
Dry Rice	bu			1.00	Aug	180.0000				
Disk Heavy	28'	MFWD 300	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
							-------	-------	-------	-------
TOTALS							0.53	0.53	2.61	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 44.D Estimated costs for field operations, per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Fullpage Hyb Tr	lb	145.82					6.02	151.84		151.84
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed FPH(Levee)	lb	26.95					1.11	28.06		28.06
Rice Seed Trt/Insect	lbseed	1.23					0.05	1.28		1.28
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Preface	oz	24.95					1.03	25.98		25.98
Facet L	pt	35.00					1.44	36.44		36.44
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	21.36					0.73	22.09		22.09
Urea, Solid (46% N)	cwt	84.61					2.91	87.52		87.52
NBPT	pt	14.40					0.50	14.90		14.90
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Preface	oz	29.94					1.03	30.97		30.97
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Aim	oz	12.20					0.42	12.62		12.62
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Clincher SF	oz	19.05					0.52	19.57		19.57
MSO	pt	1.34					0.04	1.38		1.38
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	63.00					0.87	63.87		63.87
Dry Rice	bu	72.00					0.99	72.99		72.99
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre		53.24	11.80	9.53		2.29	76.86	91.67	168.53
TOTALS		882.85	83.97	32.98	37.02	0.00	33.56	1070.38	186.53	1256.91

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 44.E Estimated monthly income and expense flows per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

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	1018.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	8.93	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.62	68.77	34.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	114.43	42.14	19.05	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.34	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.36	17.36	8.80	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	63.00	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	7.80	3.18	4.08	4.08	8.21	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	18.02	14.01	14.01	14.01	8.86	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	5.30	7.46	1.55	1.55	9.10	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	14.21	8.81	3.58	1.72	2.22	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	358.87	264.87	133.80	84.80	163.39	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-358.87	-264.87	-133.80	-84.80	855.41	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-405.37	-670.24	-804.04	-888.84	-33.43	-51.58

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 44.F Estimated returns for various price/yield combinations, per acre
Fullpage hybrid straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-619	-594	-568	-543	-518	-492	-467	-441	-416	-390	-365
			-806	-780	-755	-730	-704	-679	-653	-628	-602	-577	-551
60	108.00	bu	-557	-526	-496	-465	-434	-404	-373	-343	-312	-282	-251
			-743	-713	-682	-652	-621	-590	-560	-529	-499	-468	-438
70	126.00	bu	-494	-458	-423	-387	-351	-316	-280	-244	-209	-173	-137
			-680	-645	-609	-574	-538	-502	-467	-431	-395	-360	-324
80	144.00	bu	-431	-390	-350	-309	-268	-227	-187	-146	-105	-64	-24
			-618	-577	-536	-496	-455	-414	-373	-332	-292	-251	-210
90	162.00	bu	-369	-323	-277	-231	-185	-139	-93	-48	-2	43	89
			-555	-509	-463	-417	-372	-326	-280	-234	-188	-142	-97
100	180.00	bu	-306	-255	-204	-153	-102	-51	-0	50	101	152	203
			-492	-441	-390	-339	-289	-238	-187	-136	-85	-34	16
110	198.00	bu	-243	-187	-131	-75	-19	36	92	148	204	260	316
			-430	-374	-318	-261	-205	-149	-93	-37	18	74	130
120	216.00	bu	-180	-119	-58	2	63	124	185	247	308	369	430
			-367	-306	-245	-183	-122	-61	-0	60	121	182	243
130	234.00	bu	-118	-51	14	80	146	213	279	345	411	477	544
			-304	-238	-172	-105	-39	26	92	158	225	291	357
140	252.00	bu	-55	15	87	158	229	301	372	443	515	586	657
			-241	-170	-99	-27	43	114	185	257	328	399	471
150	270.00	bu	7	83	160	236	312	389	465	542	618	695	771
			-179	-102	-26	50	126	202	279	355	432	508	584

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 2023 input prices.

Table 45.A Estimated costs per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Provisia	oz	0.88	31.0000	27.28	_____
Aim	oz	8.13	1.0000	8.13	_____
Permit	oz	19.50	0.7500	14.63	_____
Regiment	oz	45.96	0.2500	11.49	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.40	77.0000	107.80	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	1.34	0.5000	0.67	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Dyne-A-Pak	pt	6.88	0.2500	1.72	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
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	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5475	9.83	_____
Harvesters	hour	17.94	0.1269	2.28	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL					
Tractors	gal	3.44	7.6209	26.20	_____
Harvesters	gal	3.44	2.7765	9.55	_____
Flood Irr.	gal	3.44	26.8827	92.47	_____
REPAIR & MAINTENANCE					
Implements	acre	10.61	1.0000	10.61	_____
Tractors	acre	5.51	1.0000	5.51	_____
Harvesters	acre	7.40	1.0000	7.40	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	32.38	1.0000	32.38	_____

TOTAL DIRECT EXPENSES				1060.20	_____
FIXED EXPENSES					
Implements	acre	29.62	1.0000	29.62	_____
Tractors	acre	42.54	1.0000	42.54	_____
Harvesters	acre	35.45	1.0000	35.45	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____

TOTAL FIXED EXPENSES				167.05	_____

TOTAL SPECIFIED EXPENSES				1227.25	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 45.B Summary of estimated costs and returns per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	156.0000	882.96	_____
TOTAL INCOME				882.96	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	133.45	1.0000	133.45	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	130.13	1.0000	130.13	_____
ADJUVANTS	acre	16.66	1.0000	16.66	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	17.94	0.6745	12.11	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	17.94	0.4947	8.88	_____
DIESEL FUEL	gal	3.44	37.2802	128.22	_____
REPAIR & MAINTENANCE	acre	37.83	1.0000	37.83	_____
INTEREST ON OP. CAP.	acre	32.38	1.0000	32.38	_____
TOTAL DIRECT EXPENSES				1060.20	_____
RETURNS ABOVE DIRECT EXPENSES				-177.24	_____
TOTAL FIXED EXPENSES				167.05	_____
TOTAL SPECIFIED EXPENSES				1227.25	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-344.29	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 45.C Estimated resource use for field operations, per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Provisia	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
Class Act NG	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Provisia	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Provisia	oz					15.5000				
Aim	oz					1.0000				
Permit	oz					0.7500				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Provisia	oz					15.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Regiment	oz					0.2500				
Dyne-A-Pak	pt					0.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	40' Rigid	425 hp	0.126	1.00	Aug		0.12	0.12	0.12	0.11
Grain Cart Rice	700 bu	MFWD 300	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 300	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							0.67	0.67	6.02	0.49

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 45.D Estimated costs for field operations, per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Provisia	lb	91.00					3.75	94.75		94.75
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
Class Act NG	pt	2.50					0.10	2.60		2.60
MSO	pt	0.67					0.03	0.70		0.70
Seed Levees										
Rice Seed Provisia	lb	16.80					0.69	17.49		17.49
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Provisia	oz	13.64					0.56	14.20		14.20
Aim	oz	8.13					0.34	8.47		8.47
Permit	oz	14.63					0.60	15.23		15.23
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Provisia	oz	13.64					0.47	14.11		14.11
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Rice Management										
RICE MGT. LABOR	hour				2.72		0.09	2.81		2.81
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Regiment	oz	11.49					0.32	11.81		11.81
Dyne-A-Pak	pt	1.72					0.05	1.77		1.77
Rice Management										
RICE MGT. LABOR	hour				4.53		0.12	4.65		4.65
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				4.53		0.09	4.62		4.62
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (CL)	40' Rigid		9.55	10.17	4.33		0.33	24.38	40.92	65.30
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	54.60					0.75	55.35		55.35
Dry Rice	bu	62.40					0.86	63.26		63.26
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	4.50	96.22	15.30	34.20		4.67	154.89	66.73	221.62
TOTALS		792.25	128.22	37.83	69.52	0.00	32.38	1060.20	167.05	1227.25

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 45.E Estimated monthly income and expense flows per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

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	882.96	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	90.88	13.64	11.49	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	130.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.72	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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	4.50	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	17.15	9.52	11.33	11.33	10.52	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.99	25.22	25.22	25.22	11.51	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.21	8.20	2.29	2.29	10.82	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	12.38	8.19	3.92	2.81	2.06	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	312.35	246.40	146.16	138.73	151.91	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-312.35	-246.40	-146.16	-138.73	731.05	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-358.85	-605.25	-751.41	-890.14	-159.09	-177.24

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 45.F Estimated returns for various price/yield combinations, per acre
Provisia contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-669	-647	-625	-603	-581	-559	-537	-515	-493	-471	-449
			-836	-814	-792	-770	-748	-726	-704	-682	-660	-638	-616
60	93.60	bu	-615	-588	-562	-535	-509	-482	-456	-430	-403	-377	-350
			-782	-755	-729	-703	-676	-650	-623	-597	-570	-544	-517
70	109.20	bu	-561	-530	-499	-468	-437	-406	-375	-344	-313	-282	-252
			-728	-697	-666	-635	-604	-573	-542	-511	-480	-449	-419
80	124.80	bu	-506	-471	-436	-400	-365	-330	-294	-259	-224	-188	-153
			-673	-638	-603	-567	-532	-497	-461	-426	-391	-355	-320
90	140.40	bu	-452	-412	-372	-333	-293	-253	-213	-174	-134	-94	-55
			-619	-579	-539	-500	-460	-420	-380	-341	-301	-261	-222
100	156.00	bu	-397	-353	-309	-265	-221	-177	-133	-88	-44	-0	43
			-565	-520	-476	-432	-388	-344	-300	-255	-211	-167	-123
110	171.60	bu	-343	-295	-246	-197	-149	-100	-52	-3	44	93	142
			-510	-462	-413	-364	-316	-267	-219	-170	-122	-73	-25
120	187.20	bu	-289	-236	-183	-130	-77	-24	28	81	134	187	240
			-456	-403	-350	-297	-244	-191	-138	-85	-32	20	73
130	202.80	bu	-234	-177	-120	-62	-5	52	109	166	224	281	339
			-401	-344	-287	-229	-172	-114	-57	-0	57	114	171
140	218.40	bu	-180	-118	-56	4	66	128	190	252	313	375	437
			-347	-285	-223	-162	-100	-38	23	85	146	208	270
150	234.00	bu	-126	-59	6	72	138	204	271	337	403	469	536
			-293	-227	-160	-94	-28	37	104	170	236	302	368

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 2023 input prices.

Table 46.A Estimated costs per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Provisia	oz	0.88	31.0000	27.28	_____
Aim	oz	8.13	1.0000	8.13	_____
Permit	oz	19.50	0.7500	14.63	_____
Regiment	oz	45.96	0.2500	11.49	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.40	77.0000	107.80	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	1.34	0.5000	0.67	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Dyne-A-Pak	pt	6.88	0.2500	1.72	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
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	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4999	8.98	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.2043	24.77	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	21.9949	75.67	_____
REPAIR & MAINTENANCE					
Implements	acre	10.16	1.0000	10.16	_____
Tractors	acre	5.21	1.0000	5.21	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	31.17	1.0000	31.17	_____

TOTAL DIRECT EXPENSES				1016.39	_____
FIXED EXPENSES					
Implements	acre	28.34	1.0000	28.34	_____
Tractors	acre	40.22	1.0000	40.22	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____

TOTAL FIXED EXPENSES				191.65	_____

TOTAL SPECIFIED EXPENSES				1208.04	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 46.B Summary of estimated costs and returns per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	156.0000	882.96	_____
TOTAL INCOME				882.96	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	133.45	1.0000	133.45	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	130.13	1.0000	130.13	_____
ADJUVANTS	acre	16.66	1.0000	16.66	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
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	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	17.94	0.6099	10.95	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	31.6056	108.72	_____
REPAIR & MAINTENANCE	acre	36.10	1.0000	36.10	_____
INTEREST ON OP. CAP.	acre	31.17	1.0000	31.17	_____
TOTAL DIRECT EXPENSES				1016.39	_____
RETURNS ABOVE DIRECT EXPENSES				-133.43	_____
TOTAL FIXED EXPENSES				191.65	_____
TOTAL SPECIFIED EXPENSES				1208.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-325.08	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 46.C Estimated resource use for field operations, per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Provisia	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Provisia	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Provisia	oz					15.5000				
Aim	oz					1.0000				
Permit	oz					0.7500				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Provisia	oz					15.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Regiment	oz					0.2500				
Dyne-A-Pak	pt					0.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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 300	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							0.60	0.60	4.01	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 46.D Estimated costs for field operations, per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Provisia	lb	91.00					3.75	94.75		94.75
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed Provisia	lb	16.80					0.69	17.49		17.49
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Provisia	oz	13.64					0.56	14.20		14.20
Aim	oz	8.13					0.34	8.47		8.47
Permit	oz	14.63					0.60	15.23		15.23
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Provisia	oz	13.64					0.47	14.11		14.11
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Regiment	oz	11.49					0.32	11.81		11.81
Dyne-A-Pak	pt	1.72					0.05	1.77		1.77
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	54.60					0.75	55.35		55.35
Dry Rice	bu	62.40					0.86	63.26		63.26
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	2.25	77.99	14.92	22.91		3.68	121.75	96.79	218.54
TOTALS		790.00	108.72	36.10	50.40	0.00	31.17	1016.39	191.65	1208.04

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 46.E Estimated monthly income and expense flows per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

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	882.96	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	90.88	13.64	11.49	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	130.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.72	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	13.04	5.44	6.34	6.34	9.57	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	25.19	19.62	19.62	19.62	9.61	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.32	8.09	2.18	2.18	9.31	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	12.08	7.86	3.62	2.59	2.00	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	305.00	236.28	135.16	127.81	147.49	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-305.00	-236.28	-135.16	-127.81	735.47	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-351.50	-587.78	-722.94	-850.75	-115.28	-133.43

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 46.F Estimated returns for various price/yield combinations, per acre
Provisia straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-625	-603	-581	-559	-537	-515	-493	-471	-449	-427	-405
			-817	-795	-773	-751	-729	-707	-685	-663	-641	-618	-596
60	93.60	bu	-571	-545	-518	-492	-465	-439	-412	-386	-359	-333	-306
			-763	-736	-710	-683	-657	-630	-604	-577	-551	-524	-498
70	109.20	bu	-517	-486	-455	-424	-393	-362	-331	-300	-270	-239	-208
			-708	-677	-647	-616	-585	-554	-523	-492	-461	-430	-399
80	124.80	bu	-462	-427	-392	-356	-321	-286	-250	-215	-180	-145	-109
			-654	-619	-583	-548	-513	-477	-442	-407	-371	-336	-301
90	140.40	bu	-408	-368	-329	-289	-249	-209	-170	-130	-90	-50	-11
			-600	-560	-520	-480	-441	-401	-361	-322	-282	-242	-202
100	156.00	bu	-354	-310	-265	-221	-177	-133	-89	-45	-0	43	87
			-545	-501	-457	-413	-369	-325	-280	-236	-192	-148	-104
110	171.60	bu	-299	-251	-202	-154	-105	-56	-8	40	88	137	185
			-491	-442	-394	-345	-297	-248	-200	-151	-102	-54	-5
120	187.20	bu	-245	-192	-139	-86	-33	19	72	125	178	231	284
			-437	-384	-331	-278	-225	-172	-119	-66	-13	39	92
130	202.80	bu	-191	-133	-76	-18	38	95	153	210	268	325	382
			-382	-325	-267	-210	-153	-95	-38	19	76	133	191
140	218.40	bu	-136	-74	-13	48	110	172	234	295	357	419	481
			-328	-266	-204	-142	-81	-19	42	104	166	227	289
150	234.00	bu	-82	-16	50	116	182	248	314	381	447	513	579
			-274	-207	-141	-75	-9	57	123	189	255	321	388

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 2023 input prices.

Table 47.A Estimated costs per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Provisia	oz	0.88	31.0000	27.28	_____
Aim	oz	8.13	1.0000	8.13	_____
Permit	oz	19.50	0.7500	14.63	_____
Regiment	oz	45.96	0.2500	11.49	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.40	77.0000	107.80	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	1.34	0.5000	0.67	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Dyne-A-Pak	pt	6.88	0.2500	1.72	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
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	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.5281	9.48	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	7.4504	25.62	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	18.7364	64.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.26	1.0000	10.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	30.87	1.0000	30.87	_____

TOTAL DIRECT EXPENSES				1003.06	_____
FIXED EXPENSES					
Implements	acre	29.37	1.0000	29.37	_____
Tractors	acre	41.59	1.0000	41.59	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____

TOTAL FIXED EXPENSES				193.70	_____

TOTAL SPECIFIED EXPENSES				1196.76	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 47.B Summary of estimated costs and returns per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	156.0000	882.96	_____
TOTAL INCOME				882.96	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	133.45	1.0000	133.45	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	130.13	1.0000	130.13	_____
ADJUVANTS	acre	16.66	1.0000	16.66	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
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	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	17.94	0.6381	11.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	28.5932	98.34	_____
REPAIR & MAINTENANCE	acre	36.03	1.0000	36.03	_____
INTEREST ON OP. CAP.	acre	30.87	1.0000	30.87	_____
TOTAL DIRECT EXPENSES				1003.06	_____
RETURNS ABOVE DIRECT EXPENSES				-120.10	_____
TOTAL FIXED EXPENSES				193.70	_____
TOTAL SPECIFIED EXPENSES				1196.76	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-313.80	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 47.C Estimated resource use for field operations, per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Provisia	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Provisia	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Provisia	oz					15.5000				
Aim	oz					1.0000				
Permit	oz					0.7500				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Provisia	oz					15.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Regiment	oz					0.2500				
Dyne-A-Pak	pt					0.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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 300	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							0.63	0.63	2.82	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 47.D Estimated costs for field operations, per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Provisia	lb	91.00					3.75	94.75		94.75
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed Provisia	lb	16.80					0.69	17.49		17.49
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Provisia	oz	13.64					0.56	14.20		14.20
Aim	oz	8.13					0.34	8.47		8.47
Permit	oz	14.63					0.60	15.23		15.23
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Provisia	oz	13.64					0.47	14.11		14.11
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Regiment	oz	11.49					0.32	11.81		11.81
Dyne-A-Pak	pt	1.72					0.05	1.77		1.77
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	54.60					0.75	55.35		55.35
Dry Rice	bu	62.40					0.86	63.26		63.26
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre	10.17	67.61	14.85	12.41		3.38	108.42	98.84	207.26
TOTALS		797.92	98.34	36.03	39.90	0.00	30.87	1003.06	193.70	1196.76

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 47.E Estimated monthly income and expense flows per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

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	882.96	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	90.88	13.64	11.49	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	130.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.72	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	10.94	2.72	3.62	3.62	9.33	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	23.05	16.81	16.81	16.81	9.80	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	6.43	8.01	2.10	2.10	9.37	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	12.23	7.66	3.47	2.48	2.01	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	308.94	230.47	129.40	122.09	147.51	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-308.94	-230.47	-129.40	-122.09	735.45	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-355.44	-585.91	-715.31	-837.40	-101.95	-120.10

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 47.F Estimated returns for various price/yield combinations, per acre
Provisia straight levee multi inlet rice
Flood irrigated, 23 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-612	-590	-568	-546	-524	-502	-480	-458	-436	-413	-391
			-806	-784	-762	-740	-718	-695	-673	-651	-629	-607	-585
60	93.60	bu	-558	-531	-505	-478	-452	-425	-399	-372	-346	-319	-293
			-751	-725	-699	-672	-646	-619	-593	-566	-540	-513	-487
70	109.20	bu	-503	-473	-442	-411	-380	-349	-318	-287	-256	-225	-194
			-697	-666	-635	-604	-574	-543	-512	-481	-450	-419	-388
80	124.80	bu	-449	-414	-378	-343	-308	-272	-237	-202	-167	-131	-96
			-643	-607	-572	-537	-501	-466	-431	-396	-360	-325	-290
90	140.40	bu	-395	-355	-315	-276	-236	-196	-156	-117	-77	-37	2
			-588	-549	-509	-469	-429	-390	-350	-310	-271	-231	-191
100	156.00	bu	-340	-296	-252	-208	-164	-120	-75	-31	12	56	100
			-534	-490	-446	-402	-357	-313	-269	-225	-181	-137	-93
110	171.60	bu	-286	-237	-189	-140	-92	-43	4	53	102	150	199
			-480	-431	-383	-334	-285	-237	-188	-140	-91	-43	5
120	187.20	bu	-232	-179	-126	-73	-20	32	85	138	191	244	297
			-425	-372	-319	-266	-213	-160	-107	-54	-1	50	103
130	202.80	bu	-177	-120	-62	-5	51	109	166	223	281	338	396
			-371	-314	-256	-199	-141	-84	-27	30	87	145	202
140	218.40	bu	-123	-61	0	62	123	185	247	309	371	432	494
			-317	-255	-193	-131	-69	-8	53	115	177	239	300
150	234.00	bu	-69	-2	63	129	195	262	328	394	460	526	593
			-262	-196	-130	-64	2	68	134	200	267	333	399

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 2023 input prices.

Table 48.A Estimated costs per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.5000	36.49	_____
App by Air (10 gal)	appl	10.57	1.0000	10.57	_____
App by Air (3 gal)	appl	6.87	1.3000	8.93	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	26.00	0.5000	13.00	_____
DAP	cwt	47.21	0.5000	23.61	_____
Urea, Solid (46% N)	cwt	31.69	5.7700	182.85	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.52	10.0000	25.20	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	80.0000	20.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Command 3ME	pt	17.50	1.3000	22.75	_____
Sharpen	oz	7.91	3.0000	23.73	_____
Provisia	oz	0.88	31.0000	27.28	_____
Aim	oz	8.13	1.0000	8.13	_____
Permit	oz	19.50	0.7500	14.63	_____
Regiment	oz	45.96	0.2500	11.49	_____
INSECTICIDES					
Tenchu SG	oz	1.13	8.0000	9.04	_____
Warrior ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.40	77.0000	107.80	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	1.34	0.5000	0.67	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Crop Oil Conc.(Pet.)	pt	2.86	4.0000	11.44	_____
Dyne-A-Pak	pt	6.88	0.2500	1.72	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	6.7700	54.16	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4228	7.59	_____
Harvesters	hour	17.94	0.1100	1.97	_____
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	0.0785	0.71	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL					
Tractors	gal	3.44	6.5294	22.45	_____
Harvesters	gal	3.44	2.4063	8.28	_____
Flood Irr.	gal	3.44	15.4779	53.24	_____
REPAIR & MAINTENANCE					
Implements	acre	10.04	1.0000	10.04	_____
Tractors	acre	4.72	1.0000	4.72	_____
Harvesters	acre	6.42	1.0000	6.42	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	29.78	1.0000	29.78	_____

TOTAL DIRECT EXPENSES				971.50	_____
FIXED EXPENSES					
Implements	acre	27.66	1.0000	27.66	_____
Tractors	acre	36.48	1.0000	36.48	_____
Harvesters	acre	30.72	1.0000	30.72	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____

TOTAL FIXED EXPENSES				186.53	_____

TOTAL SPECIFIED EXPENSES				1158.03	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 48.B Summary of estimated costs and returns per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.66	156.0000	882.96	_____
TOTAL INCOME				882.96	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.00	1.0000	56.00	_____
FERTILIZERS	acre	232.97	1.0000	232.97	_____
FUNGICIDES	acre	25.20	1.0000	25.20	_____
HERBICIDES	acre	133.45	1.0000	133.45	_____
INSECTICIDES	acre	10.85	1.0000	10.85	_____
SEED/PLANTS	acre	130.13	1.0000	130.13	_____
ADJUVANTS	acre	16.66	1.0000	16.66	_____
CUSTOM FERTILIZE	acre	54.16	1.0000	54.16	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	17.94	0.5328	9.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	17.95	0.4795	8.61	_____
DIESEL FUEL	gal	3.44	24.4137	83.97	_____
REPAIR & MAINTENANCE	acre	32.98	1.0000	32.98	_____
INTEREST ON OP. CAP.	acre	29.78	1.0000	29.78	_____
TOTAL DIRECT EXPENSES				971.50	_____
RETURNS ABOVE DIRECT EXPENSES				-88.54	_____
TOTAL FIXED EXPENSES				186.53	_____
TOTAL SPECIFIED EXPENSES				1158.03	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-275.07	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 48.C Estimated resource use for field operations, per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		0.03	0.03	0.03	0.03
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					48.0000				
2,4-D Amine 4	pt					2.0000				
Grain Drill	24'	MFWD 300	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Provisia	lb					65.0000				
Rice Seed Trt/Insect	lbseed					65.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					0.5000				
Class Act NG	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed Provisia	lb					12.0000				
Rice Seed Trt/Insect	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Provisia	oz					15.5000				
Aim	oz					1.0000				
Permit	oz					0.7500				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	May	1.0000				
Amm Sulfate (21% N)	cwt					0.5000				
DAP	cwt					0.5000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
NBPT	pt					0.7500				
App by Air (10 gal)	appl			1.00	May	1.0000				
Provisia	oz					15.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Regiment	oz					0.2500				
Dyne-A-Pak	pt					0.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	2.1700				
Urea, Solid (46% N)	cwt					2.1700				
App Fert by Air	cwt			1.00	Jul	1.1000				
Urea, Solid (46% N)	cwt					1.1000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Ameristar Top	oz					10.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					8.0000				
App by Air (3 gal)	appl			0.30	Jul	0.3000				
Warrior ZT	oz					0.6000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	40' Rigid	425 hp	0.110	1.00	Aug		0.11	0.11	0.11	0.09
Grain Cart Rice	700 bu	MFWD 300	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 300	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.53	0.53	2.61	0.47

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 48.D Estimated costs for field operations, per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Field Cultivate Fld	32'		4.96	2.47	3.18		0.88	11.49	15.62	27.11
Harrow - Folding	40'		2.06	0.72	1.33		0.34	4.45	3.90	8.35
App by Air (5 gal)	appl	8.11					0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	12.00					0.66	12.66		12.66
2,4-D Amine 4	pt	5.44					0.30	5.74		5.74
Grain Drill	24'		4.17	3.25	3.39		0.45	11.26	12.49	23.75
Rice Seed Provisia	lb	91.00					3.75	94.75		94.75
Rice Seed Trt/Insect	lbseed	18.85					0.78	19.63		19.63
Roller/Cultipacker	30'		2.64	0.81	1.69		0.21	5.35	4.72	10.07
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33		8.33
Command 3ME	pt	22.75					0.94	23.69		23.69
Sharpen	oz	23.73					0.98	24.71		24.71
MSO	pt	0.67					0.03	0.70		0.70
Class Act NG	pt	2.50					0.10	2.60		2.60
Seed Levees										
Rice Seed Provisia	lb	16.80					0.69	17.49		17.49
Rice Seed Trt/Insect	lbseed	3.48					0.14	3.62		3.62
App by Air (5 gal)	appl	8.11					0.33	8.44		8.44
Provisia	oz	13.64					0.56	14.20		14.20
Aim	oz	8.13					0.34	8.47		8.47
Permit	oz	14.63					0.60	15.23		15.23
Crop Oil Conc.(Pet.)	pt	5.72					0.24	5.96		5.96
App Fert by Air	cwt	8.00					0.28	8.28		8.28
Amm Sulfate (21% N)	cwt	13.00					0.45	13.45		13.45
DAP	cwt	23.61					0.81	24.42		24.42
Rice Consultant	acre	8.00					0.28	8.28		8.28
App Fert by Air	cwt	20.00					0.69	20.69		20.69
Urea, Solid (46% N)	cwt	79.23					2.72	81.95		81.95
NBPT	pt	13.50					0.46	13.96		13.96
App by Air (10 gal)	appl	10.57					0.36	10.93		10.93
Provisia	oz	13.64					0.47	14.11		14.11
Crop Oil Conc.(Pet.)	pt	5.72					0.20	5.92		5.92
Rice Management										
RICE MGT. LABOR	hour				0.91		0.03	0.94		0.94
App by Air (5 gal)	appl	4.06					0.11	4.17		4.17
Regiment	oz	11.49					0.32	11.81		11.81
Dyne-A-Pak	pt	1.72					0.05	1.77		1.77
Rice Management										
RICE MGT. LABOR	hour				1.81		0.05	1.86		1.86
App Fert by Air	cwt	17.36					0.48	17.84		17.84
Urea, Solid (46% N)	cwt	68.77					1.89	70.66		70.66
App Fert by Air	cwt	8.80					0.18	8.98		8.98
Urea, Solid (46% N)	cwt	34.86					0.72	35.58		35.58
Rice Management										
RICE MGT. LABOR	hour				1.81		0.04	1.85		1.85
App by Air (5 gal)	appl	8.11					0.17	8.28		8.28
Ameristar Top	oz	25.20					0.52	25.72		25.72
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (3 gal)	appl	6.87					0.14	7.01		7.01
Tenchu SG	oz	9.04					0.19	9.23		9.23
App by Air (3 gal)	appl	2.06					0.04	2.10		2.10
Warrior ZT	oz	1.81					0.04	1.85		1.85
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
Header - Draper (SL)	40' Rigid		8.28	8.82	3.75		0.29	21.14	35.46	56.60
Grain Cart Rice	700 bu		0.58	0.28	0.38		0.02	1.26	1.31	2.57
Handling & Storage										
HAND LABOR	hour				2.27		0.03	2.30		2.30
Haul Rice	bu	54.60					0.75	55.35		55.35
Dry Rice	bu	62.40					0.86	63.26		63.26
Disk Heavy	28'		8.04	4.83	5.16		0.12	18.15	21.36	39.51
Flood Irr.	acre		53.24	11.80	9.53		2.29	76.86	91.67	168.53
TOTALS		787.75	83.97	32.98	37.02	0.00	29.78	971.50	186.53	1158.03

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 48.E Estimated monthly income and expense flows per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

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	882.96	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	16.22	10.57	4.06	17.04	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.34	68.77	34.86	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.44	0.00	90.88	13.64	11.49	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	130.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.89	5.72	1.72	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	17.36	8.80	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
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	7.80	3.18	4.08	4.08	8.21	5.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.02	0.00	0.00	0.00	0.00	0.00	18.02	14.01	14.01	14.01	8.86	8.04
REPAIR & MAINTENANCE	3.19	0.00	0.00	0.00	0.00	0.00	5.30	7.46	1.55	1.55	9.10	4.83
INTEREST ON OP. CAP.	1.49	0.00	0.00	0.00	1.41	0.00	11.42	7.56	3.39	2.42	1.97	0.12
TOTAL DIRECT EXPENSES	19.54	0.00	0.00	0.00	26.96	0.00	288.66	227.48	126.43	119.14	145.14	18.15
NET INCOME	-19.54	0.00	0.00	0.00	-26.96	0.00	-288.66	-227.48	-126.43	-119.14	737.82	-18.15
NET INCOME TO DATE	-19.54	-19.54	-19.54	-19.54	-46.50	-46.50	-335.16	-562.64	-689.07	-808.21	-70.39	-88.54

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
* Lease costs are based on hourly usage costs.

Table 48.F Estimated returns for various price/yield combinations, per acre
Provisia straight levee-zero grade rice
Flood irrigated, 19 ac-in., Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.24	4.52	4.81	5.09	5.37	5.66	5.94	6.22	6.50	6.79	7.07
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-581	-559	-536	-514	-492	-470	-448	-426	-404	-382	-360
			-767	-745	-723	-701	-679	-657	-635	-613	-591	-568	-546
60	93.60	bu	-526	-500	-473	-447	-420	-394	-367	-341	-314	-288	-261
			-713	-686	-660	-633	-607	-580	-554	-527	-501	-474	-448
70	109.20	bu	-472	-441	-410	-379	-348	-317	-286	-256	-225	-194	-163
			-658	-627	-597	-566	-535	-504	-473	-442	-411	-380	-349
80	124.80	bu	-418	-382	-347	-312	-276	-241	-206	-170	-135	-100	-64
			-604	-569	-533	-498	-463	-427	-392	-357	-321	-286	-251
90	140.40	bu	-363	-323	-284	-244	-204	-164	-125	-85	-45	-6	33
			-550	-510	-470	-430	-391	-351	-311	-272	-232	-192	-152
100	156.00	bu	-309	-265	-220	-176	-132	-88	-44	-0	43	88	132
			-495	-451	-407	-363	-319	-275	-230	-186	-142	-98	-54
110	171.60	bu	-254	-206	-157	-109	-60	-12	36	85	133	182	230
			-441	-392	-344	-295	-247	-198	-150	-101	-52	-4	44
120	187.20	bu	-200	-147	-94	-41	11	64	117	170	223	276	329
			-387	-334	-281	-228	-175	-122	-69	-16	36	89	142
130	202.80	bu	-146	-88	-31	25	83	140	198	255	312	370	427
			-332	-275	-217	-160	-103	-45	11	69	126	183	241
140	218.40	bu	-91	-30	31	93	155	217	279	340	402	464	526
			-278	-216	-154	-92	-31	30	92	154	216	277	339
150	234.00	bu	-37	28	94	161	227	293	359	426	492	558	624
			-224	-157	-91	-25	40	107	173	239	305	371	438

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 2023 input prices.

Table 49.A Estimated costs per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.24	1.0000	11.24	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____

TOTAL DIRECT EXPENSES				611.16	_____
FIXED EXPENSES					
Implements	acre	57.26	1.0000	57.26	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____

TOTAL FIXED EXPENSES				160.13	_____

TOTAL SPECIFIED EXPENSES				771.29	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 49.B Summary of estimated costs and returns per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	24.49	1.0000	24.49	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____

TOTAL DIRECT EXPENSES				611.16	_____
RETURNS ABOVE DIRECT EXPENSES				598.84	_____
TOTAL FIXED EXPENSES				160.13	_____

TOTAL SPECIFIED EXPENSES				771.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				438.71	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 49.C Estimated resource use for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Plt&Pre Rigid	8R-38	MFWD 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
							---	---	---	---
TOTALS							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 49.D Estimated costs for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12					0.66	16.78		16.78
Lime (Spread)	ton	21.65					0.89	22.54		22.54
Bed-Rip/Disk Fold.	8R-38		2.46	0.82	2.36		0.19	5.83	6.06	11.89
Peanut Plt&Pre Rigid	8R-38		4.81	3.62	4.99		0.46	13.88	14.95	28.83
Peanut Seed	lb	130.50					4.49	134.99		134.99
Optimize LIFT	oz	2.22					0.08	2.30		2.30
Admire Pro	oz	23.04					0.79	23.83		23.83
Abound	oz	22.44					0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75					0.37	11.12		11.12
Valor SX	oz	9.18					0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13					0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Convoy	oz	34.56					0.95	35.51		35.51
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Storm	pt	25.61					0.70	26.31		26.31
Cadre	oz	7.48					0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Elatus	oz	35.05					0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Select Max	pt	15.01					0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Provost Silver	oz	19.76					0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22					0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36					0.19	27.55		27.55
Cleaning Peanuts	ton	29.16					0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62	49.88
TOTALS		473.97	52.00	24.49	45.95	0.00	14.75	611.16	160.13	771.29

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 49.E Estimated monthly income and expense flows per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.43	7.88	1.29	1.72	0.43	34.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.70	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.56	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	227.31	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-227.31	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-271.30	-365.20	-456.57	-462.02	598.84

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.
* Lease costs are based on hourly usage costs.

Table 49.F Estimated returns for various price/yield combinations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-128	-98	-68	-38	-7	22	52	82	113	143	173
			-289	-258	-228	-198	-168	-137	-107	-77	-47	-16	13
60	1.32	ton	-43	-7	28	65	101	137	173	210	246	282	319
			-204	-167	-131	-95	-58	-22	13	50	86	122	158
70	1.54	ton	41	83	125	168	210	252	295	337	379	422	464
			-118	-76	-34	8	50	92	135	177	219	262	304
80	1.76	ton	126	174	223	271	319	368	416	465	513	561	610
			-33	14	62	111	159	208	256	304	353	401	450
90	1.98	ton	211	265	320	374	429	483	537	592	646	701	755
			51	105	160	214	268	323	377	432	486	541	595
100	2.20	ton	296	356	417	477	538	598	659	719	780	840	901
			136	196	257	317	378	438	499	559	620	680	741
110	2.42	ton	381	447	514	581	647	714	780	847	913	980	1046
			221	287	354	420	487	554	620	687	753	820	886
120	2.64	ton	466	539	611	684	756	829	902	974	1047	1119	1192
			306	378	451	524	596	669	741	814	887	959	1032
130	2.86	ton	551	630	708	787	866	944	1023	1102	1180	1259	1338
			391	470	548	627	705	784	863	941	1020	1099	1177
140	3.08	ton	636	721	805	890	975	1060	1144	1229	1314	1398	1483
			476	561	645	730	815	899	984	1069	1154	1238	1323
150	3.30	ton	721	812	903	993	1084	1175	1266	1356	1447	1538	1629
			561	652	743	833	924	1015	1106	1196	1287	1378	1469

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 2023 input prices.

Table 50.A Estimated costs per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
INOCULANT					
Optimize LIFT	oz	0.15	29.6000	4.44	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	14.49	1.0000	14.49	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____

TOTAL DIRECT EXPENSES				616.81	_____
FIXED EXPENSES					
Implements	acre	64.89	1.0000	64.89	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____

TOTAL FIXED EXPENSES				167.76	_____

TOTAL SPECIFIED EXPENSES				784.57	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 50.B Summary of estimated costs and returns per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
INOCULANT	acre	4.44	1.0000	4.44	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	27.74	1.0000	27.74	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____

TOTAL DIRECT EXPENSES				616.81	_____
RETURNS ABOVE DIRECT EXPENSES				593.19	_____
TOTAL FIXED EXPENSES				167.76	_____

TOTAL SPECIFIED EXPENSES				784.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				425.43	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning

Table 50.C Estimated resource use for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Rigid	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Ptlt&PreTwin	8R-30/40	MFWD 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					29.6000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
							---	---	---	---
TOTALS							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 50.D Estimated costs for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12					0.66	16.78		16.78
Lime (Spread)	ton	21.65					0.89	22.54		22.54
Bed-Rip/Disk Rigid	8R-38		2.46	0.77	2.36		0.19	5.78	5.74	11.52
Peanut Ptlt&PreTwin	8R-30/40		4.81	6.92	4.99		0.57	17.29	22.90	40.19
Peanut Seed	lb	130.50					4.49	134.99		134.99
Optimize LIFT	oz	4.44					0.15	4.59		4.59
Admire Pro	oz	23.04					0.79	23.83		23.83
Abound	oz	22.44					0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75					0.37	11.12		11.12
Valor SX	oz	9.18					0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13					0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Convoy	oz	34.56					0.95	35.51		35.51
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Storm	pt	25.61					0.70	26.31		26.31
Cadre	oz	7.48					0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Elatus	oz	35.05					0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Select Max	pt	15.01					0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Provost Silver	oz	19.76					0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22					0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36					0.19	27.55		27.55
Cleaning Peanuts	ton	29.16					0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62	49.88
TOTALS		476.19	52.00	27.74	45.95	0.00	14.93	616.81	167.76	784.57

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 50.E Estimated monthly income and expense flows per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.43	7.88	1.29	1.72	0.43	34.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	7.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.74	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	232.96	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-232.96	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-276.95	-370.85	-462.22	-467.67	593.19

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.
* Lease costs are based on hourly usage costs.

Table 50.F Estimated returns for various price/yield combinations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-134	-104	-74	-43	-13	16	46	77	107	137	167
			-302	-272	-241	-211	-181	-151	-120	-90	-60	-30	0
60	1.32	ton	-49	-13	23	59	95	131	168	204	240	277	313
			-217	-181	-144	-108	-72	-35	0	36	73	109	145
70	1.54	ton	35	77	120	162	204	247	289	331	374	416	459
			-132	-89	-47	-5	37	79	121	164	206	248	291
80	1.76	ton	120	168	217	265	314	362	410	459	507	556	604
			-47	1	49	98	146	194	243	291	340	388	436
90	1.98	ton	205	260	314	368	423	477	532	586	641	695	750
			37	92	146	201	255	310	364	419	473	527	582
100	2.20	ton	290	351	411	472	532	593	653	714	774	835	895
			122	183	243	304	364	425	485	546	606	667	727
110	2.42	ton	375	442	508	575	641	708	775	841	908	974	1041
			207	274	341	407	474	540	607	673	740	806	873
120	2.64	ton	460	533	606	678	751	823	896	969	1041	1114	1186
			293	365	438	510	583	656	728	801	873	946	1019
130	2.86	ton	545	624	703	781	860	939	1017	1096	1175	1253	1332
			378	456	535	614	692	771	850	928	1007	1085	1164
140	3.08	ton	630	715	800	885	969	1054	1139	1223	1308	1393	1477
			463	547	632	717	801	886	971	1056	1140	1225	1310
150	3.30	ton	715	806	897	988	1078	1169	1260	1351	1441	1532	1623
			548	638	729	820	911	1001	1092	1183	1274	1364	1455

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 2023 input prices.

Table 51.A Estimated costs per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	1.1856	21.27	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	12.9499	44.54	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.99	1.0000	11.99	_____
Tractors	acre	10.60	1.0000	10.60	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____

TOTAL DIRECT EXPENSES				606.49	_____
FIXED EXPENSES					
Implements	acre	58.94	1.0000	58.94	_____
Tractors	acre	81.95	1.0000	81.95	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____

TOTAL FIXED EXPENSES				157.91	_____

TOTAL SPECIFIED EXPENSES				764.40	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 51.B Summary of estimated costs and returns per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1406	1.24	_____
OPERATOR LABOR	hour	17.94	1.3061	23.42	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL	gal	3.44	14.4842	49.77	_____
REPAIR & MAINTENANCE	acre	24.74	1.0000	24.74	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____

TOTAL DIRECT EXPENSES				606.49	_____
RETURNS ABOVE DIRECT EXPENSES				603.51	_____
TOTAL FIXED EXPENSES				157.91	_____

TOTAL SPECIFIED EXPENSES				764.40	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				445.60	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 51.C Estimated resource use for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
							---	---	---	---
TOTALS							1.30	1.18	1.44	1.04

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 51.D Estimated costs for field operations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12					0.66	16.78		16.78
Lime (Spread)	ton	21.65					0.89	22.54		22.54
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49		0.14	4.15	4.99	9.14
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32		0.36	10.89	13.80	24.69
Peanut Seed	lb	130.50					4.49	134.99		134.99
Optimize LIFT	oz	2.22					0.08	2.30		2.30
Admire Pro	oz	23.04					0.79	23.83		23.83
Abound	oz	22.44					0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75					0.37	11.12		11.12
Valor SX	oz	9.18					0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13					0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Convoy	oz	34.56					0.95	35.51		35.51
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Storm	pt	25.61					0.70	26.31		26.31
Cadre	oz	7.48					0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Elatus	oz	35.05					0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Select Max	pt	15.01					0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Provost Silver	oz	19.76					0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22					0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36					0.19	27.55		27.55
Cleaning Peanuts	ton	29.16					0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62	49.88
TOTALS		473.97	49.77	24.74	43.41	0.00	14.60	606.49	157.91	764.40

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 51.E Estimated monthly income and expense flows per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.43	5.34	1.29	1.72	0.43	34.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	5.68	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.41	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	222.64	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-222.64	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-266.63	-360.53	-451.90	-457.35	603.51

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.
* Lease costs are based on hourly usage costs.

Table 51.F Estimated returns for various price/yield combinations, per acre
Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-124	-94	-63	-33	-3	26	57	87	117	147	178
			-282	-251	-221	-191	-161	-130	-100	-70	-40	-9	20
60	1.32	ton	-39	-2	33	69	105	142	178	214	251	287	323
			-197	-160	-124	-88	-51	-15	20	56	93	129	165
70	1.54	ton	45	88	130	172	215	257	299	342	384	426	469
			-112	-69	-27	14	57	99	142	184	226	269	311
80	1.76	ton	130	179	227	276	324	372	421	469	518	566	614
			-27	21	69	118	166	214	263	311	360	408	456
90	1.98	ton	215	270	324	379	433	488	542	597	651	706	760
			58	112	166	221	275	330	384	439	493	548	602
100	2.20	ton	301	361	422	482	543	603	664	724	785	845	906
			143	203	264	324	385	445	506	566	627	687	748
110	2.42	ton	386	452	519	585	652	718	785	851	918	985	1051
			228	294	361	427	494	560	627	694	760	827	893
120	2.64	ton	471	543	616	688	761	834	906	979	1051	1124	1197
			313	385	458	531	603	676	748	821	894	966	1039
130	2.86	ton	556	634	713	792	870	949	1028	1106	1185	1264	1342
			398	476	555	634	712	791	870	948	1027	1106	1184
140	3.08	ton	641	725	810	895	980	1064	1149	1234	1318	1403	1488
			483	568	652	737	822	906	991	1076	1160	1245	1330
150	3.30	ton	726	817	907	998	1089	1180	1270	1361	1452	1543	1633
			568	659	749	840	931	1022	1112	1203	1294	1385	1475

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 2023 input prices.

Table 52.A Estimated costs per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.8700	33.66	_____
DRYING					
Dry Peanuts	ton	24.00	1.3200	31.68	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	1.2642	22.68	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	13.6762	47.04	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
Irrigate Peanuts	gal	3.44	9.7755	33.64	_____
REPAIR & MAINTENANCE					
Implements	acre	12.24	1.0000	12.24	_____
Tractors	acre	11.15	1.0000	11.15	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	_____

TOTAL DIRECT EXPENSES				673.83	_____
FIXED EXPENSES					
Implements	acre	60.96	1.0000	60.96	_____
Tractors	acre	86.18	1.0000	86.18	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
Irrigate Peanuts	acre	74.47	1.0000	74.47	_____

TOTAL FIXED EXPENSES				238.63	_____

TOTAL SPECIFIED EXPENSES				912.46	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 52.B Summary of estimated costs and returns per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.5000	1375.00	_____
TOTAL INCOME				1375.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	33.66	1.0000	33.66	_____
DRYING	acre	31.68	1.0000	31.68	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1406	1.24	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	17.94	1.3846	24.83	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL	gal	3.44	24.9860	85.91	_____
REPAIR & MAINTENANCE	acre	32.70	1.0000	32.70	_____
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	_____
TOTAL DIRECT EXPENSES				673.83	_____
RETURNS ABOVE DIRECT EXPENSES				701.17	_____
TOTAL FIXED EXPENSES				238.63	_____
TOTAL SPECIFIED EXPENSES				912.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				462.54	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 52.C Estimated resource use for field operations, per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.3200				
Cleaning Peanuts	ton					1.8700				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Irrigate Peanuts	acre				Jan	1.0000	0.07	0.07	0.46	
							---	---	---	---
TOTALS							1.38	1.26	1.91	1.04

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 52.D Estimated costs for field operations, per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12					0.66	16.78		16.78
Lime (Spread)	ton	21.65					0.89	22.54		22.54
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49		0.14	4.15	4.99	9.14
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32		0.36	10.89	13.80	24.69
Peanut Seed	lb	130.50					4.49	134.99		134.99
Optimize LIFT	oz	2.22					0.08	2.30		2.30
Admire Pro	oz	23.04					0.79	23.83		23.83
Abound	oz	22.44					0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75					0.37	11.12		11.12
Valor SX	oz	9.18					0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13					0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Convoy	oz	34.56					0.95	35.51		35.51
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Storm	pt	25.61					0.70	26.31		26.31
Cadre	oz	7.48					0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22					0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Elatus	oz	35.05					0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Select Max	pt	15.01					0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Provost Silver	oz	19.76					0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22					0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05	143.42
Dry Peanuts	ton	31.68					0.22	31.90		31.90
Cleaning Peanuts	ton	33.66					0.23	33.89		33.89
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62	49.88
Irrigate Peanuts	acre	7.92	36.14	7.96	4.94		1.50	58.46	80.72	139.18
TOTALS		490.71	85.91	32.70	48.35	0.00	16.16	673.83	238.63	912.46

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.

Table 52.E Estimated monthly income and expense flows per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1375.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.66
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.68
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.68	0.00	0.00	0.00	0.00	0.00	0.66	7.77	1.52	2.18	1.34	34.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.28	0.00	0.00	0.00	0.00	0.00	0.51	6.34	9.94	18.86	9.48	39.50
REPAIR & MAINTENANCE	0.39	0.00	0.00	0.00	0.00	0.00	0.21	8.13	1.68	2.94	1.45	17.90
INTEREST ON OP. CAP.	0.19	0.00	0.00	0.00	0.00	0.00	1.75	7.89	2.79	2.23	0.23	1.08
TOTAL DIRECT EXPENSES	2.54	0.00	0.00	0.00	0.00	0.00	44.23	237.31	103.86	111.15	16.72	158.02
NET INCOME	-2.54	0.00	0.00	0.00	0.00	0.00	-44.23	-237.31	-103.86	-111.15	-16.72	1216.98
NET INCOME TO DATE	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54	-46.77	-284.08	-387.94	-499.09	-515.81	701.17

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.
* Lease costs are based on hourly usage costs.

Table 52.F Estimated returns for various price/yield combinations, per acre
Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.25	ton	-125	-90	-56	-22	12	46	80	115	149	184	218
			-363	-329	-295	-260	-226	-192	-157	-123	-88	-54	-20
60	1.50	ton	-28	12	53	94	136	177	218	259	301	342	383
			-267	-226	-184	-143	-102	-61	-19	21	62	103	145
70	1.75	ton	67	115	164	212	260	308	356	404	452	500	549
			-170	-122	-74	-26	21	69	117	166	214	262	310
80	2.00	ton	164	219	274	329	384	439	494	549	604	659	714
			-74	-19	35	90	145	200	255	310	365	420	475
90	2.25	ton	260	322	384	446	508	570	632	693	755	817	879
			22	84	145	207	269	331	393	455	517	579	640
100	2.50	ton	357	426	494	563	632	701	769	838	907	976	1044
			118	187	256	325	393	462	531	600	668	737	806
110	2.75	ton	453	529	605	680	756	832	907	983	1058	1134	1210
			215	290	366	442	517	593	669	744	820	895	971
120	3.00	ton	550	633	715	798	880	963	1045	1128	1210	1293	1375
			311	394	476	559	641	724	806	889	971	1054	1136
130	3.25	ton	647	736	825	915	1004	1093	1183	1272	1362	1451	1540
			408	497	587	676	765	855	944	1034	1123	1212	1302
140	3.50	ton	743	839	936	1032	1128	1224	1321	1417	1513	1609	1706
			504	601	697	793	889	986	1082	1178	1274	1371	1467
150	3.75	ton	840	943	1046	1149	1252	1355	1458	1562	1665	1768	1871
			601	704	807	910	1014	1117	1220	1323	1426	1529	1632

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 2023 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, 2024

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	463,000	300	8	13.64	17.94	46.92	48.22	113.09	230.93	344.02
Combine (300-349 hp)	325 hp	530,000	300	8	16.73	17.94	57.55	55.20	130.69	264.34	395.04
Combine (350-399 hp)	355 hp	549,000	300	8	18.27	17.94	62.84	57.18	137.97	273.82	411.80
Combine (400-449 hp)	425 hp	560,000	300	8	21.87	17.94	75.25	58.33	151.52	279.31	430.83
Combine (450-499hp)	475 hp	586,000	300	8	24.44	17.94	84.10	61.04	163.08	292.28	455.36
Tractor(20-39hp)CB	MFWD 30	37,100	600	8	1.54	17.94	5.31	1.15	24.41	8.68	33.09
Tractor(20-39hp)RB	MFWD 30	27,200	600	8	1.54	17.94	5.31	0.85	24.10	6.36	30.46
Tractor(40-59hp)CB	2WD 50	39,900	600	8	2.57	17.94	8.85	1.24	28.04	9.33	37.37
Tractor(40-59hp)CB	MFWD 50	50,300	600	8	2.57	17.94	8.85	1.57	28.36	11.77	40.13
Tractor(40-59hp)RB	2WD 50	28,100	600	8	2.57	17.94	8.85	0.87	27.67	6.57	34.24
Tractor(40-59hp)RB	MFWD 50	33,900	600	8	2.57	17.94	8.85	1.05	27.85	7.93	35.78
Tractor(60-89hp)CB	2WD 75	64,000	600	8	3.86	17.94	13.27	2.00	33.21	14.97	48.19
Tractor(60-89hp)CB	MFWD 75	74,900	600	8	3.86	17.94	13.27	2.34	33.56	17.52	51.08
Tractor(60-89hp)RB	2WD 75	59,800	600	8	3.86	17.94	13.27	1.86	33.08	13.99	47.08
Tractor(60-89hp)RB	MFWD 75	53,500	600	8	3.86	17.94	13.27	1.67	32.89	12.51	45.41
Tractor(90-119hp)CB	2WD 105	94,400	600	8	5.40	17.94	18.59	2.95	39.48	22.08	61.57
Tractor(90-119hp)CB	MFWD 105	102,500	600	8	5.40	17.94	18.59	3.20	39.73	23.98	63.71
Tractor(90-119hp)RB	2WD 105	84,000	600	8	5.40	17.94	18.59	2.62	39.15	19.65	58.81
Tractor(90-119hp)RB	MFWD 105	90,700	600	8	5.40	17.94	18.59	2.83	39.36	21.22	60.58
Tractor(120-139hp)CB	2WD 130	135,400	600	8	6.69	17.94	23.01	4.23	45.18	31.68	76.87
Tractor(120-139hp)CB	MFWD 130	170,900	600	8	6.69	17.94	23.01	5.34	46.29	39.99	86.28
Tractor(140-159hp)	2WD 150	137,500	600	8	7.72	17.94	26.55	4.29	48.79	32.17	80.97
Tractor(140-159hp)CB	MFWD 150	171,000	600	8	7.72	17.94	26.55	5.34	49.84	40.01	89.85
Tractor(160-179hp)CB	MFWD 170	201,000	600	8	8.75	17.94	30.10	6.28	54.32	48.58	102.90
Tractor(180-199hp)CB	MFWD 190	246,000	600	8	9.77	17.94	33.64	7.68	59.27	59.45	118.72
Tractor(200-249hp)CB	MFWD 225	309,000	600	8	11.58	17.94	39.83	9.65	67.43	74.68	142.11
Tractor(250-349hp)CB	4WD 300	432,000	600	8	15.44	17.94	53.11	13.50	84.55	104.41	188.97
Tractor(250-349hp)CB	MFWD 300	357,000	600	8	15.44	17.94	53.11	11.15	82.21	86.28	168.49
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	17.94	53.11	10.28	81.34	79.51	160.85
Tractor(350-449hp)	Track 400	625,000	600	8	20.58	17.94	70.82	19.53	108.29	151.05	259.35
Tractor(350-449hp)CB	4WD 400	480,000	600	8	20.58	17.94	70.82	15.00	103.76	116.01	219.77
Tractor(450-550hp)CB	4WD 500	426,000	600	8	25.73	17.94	88.53	13.31	119.78	102.96	222.74
Tractor(450-550hp)CB	Track 500	653,000	600	8	25.73	17.94	88.53	20.40	126.87	157.82	284.70
Utility Vehicle	800 CC	12,200	200	8	0.70	17.94	2.24	1.90	22.09	9.12	31.22
Utility Vehicle	900 CC	18,700	200	8	1.00	17.94	3.21	2.92	24.07	13.99	38.06

Notes:
Labor: Includes allocated labor from power unit.
Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2024

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	----------$/acre----------					
Cotton Picker	4R-38(250)	268,000	200	8	12.86	0.257	6.96	11.41	10.79	29.16	51.68	80.85
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	6.96	15.97	14.13	37.07	67.69	104.76
Cotton Picker	4R2x1(350)	357,000	200	8	18.01	0.172	4.65	10.67	9.61	24.94	46.02	70.96
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	5.89	13.71	15.85	35.46	75.92	111.39
Cotton Picker	6R-38(355)	465,000	200	8	18.27	0.172	4.65	10.83	12.51	28.00	59.94	87.94
Cotton Picker/Modu	4R-38(365)	536,000	200	8	20.58	0.257	6.96	18.25	21.58	46.80	103.37	150.17
Cotton Picker/Module	6R-30(500)	936,000	200	8	25.73	0.218	5.89	19.32	31.91	57.13	152.83	209.96
Cotton Picker/Module	6R-38(500)	941,000	200	8	25.73	0.172	4.65	15.25	25.33	45.24	121.30	166.55
Dry Applicator SP	70'300cuft	469,000	350	8	16.98	0.015	0.33	0.88	0.37	1.60	3.02	4.63
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.39	0.54	0.20	1.14	1.62	2.77
Sprayer 600-825gal	80' 175hp	268,000	350	8	11.81	0.013	0.29	0.53	0.18	1.02	1.51	2.53
Sprayer 600-825gal	90' 250hp	331,000	350	8	12.73	0.011	0.26	0.51	0.20	0.98	1.66	2.65
Sprayer 800gal	100' 250hp	364,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 800gal	80' 250hp	294,000	350	8	12.86	0.013	0.29	0.58	0.20	1.09	1.66	2.75
Sprayer 1000-1400gal	90' 275hp	363,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 1000gal	100' 300hp	492,000	350	8	15.44	0.010	0.23	0.56	0.27	1.07	2.22	3.30
Sprayer 1200+gal	120' 300hp	472,000	350	8	15.44	0.008	0.19	0.46	0.22	0.88	1.77	2.66

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, 2024

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------$/acre----------							
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.66	8.14	2.05	1.97	15.83	4.57	15.25	35.66
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.92	4.28	1.47	1.03	8.72	3.29	8.03	20.05
Bed-Rip/Disk Fold.	8R-38	MFWD 190	71,000	300	20	0.073	1.31	2.45	0.25	0.56	4.59	1.72	4.34	10.65
Bed-Rip/Disk Fold.	12R-30	MFWD 225	100,200	300	20	0.061	1.10	2.45	0.30	0.59	4.46	2.04	4.60	11.11
Bed-Rip/Disk Fold.	12R-38	MFWD 225	100,200	300	20	0.046	0.82	1.84	0.23	0.44	3.34	1.53	3.45	8.33
Bed-Rip/Disk Rigid	4R-30	MFWD 190	31,500	300	20	0.184	3.31	6.21	0.29	1.42	11.24	1.93	10.99	24.17
Bed-Rip/Disk Rigid	4R-38	MFWD 190	31,500	300	20	0.146	2.63	4.93	0.23	1.12	8.92	1.53	8.72	19.18
Bed-Rip/Disk Rigid	6R-30	MFWD 190	43,600	300	20	0.123	2.21	4.14	0.26	0.94	7.57	1.78	7.32	16.68
Bed-Rip/Disk Rigid	6R-38	MFWD 190	43,600	300	20	0.097	1.74	3.27	0.21	0.74	5.97	1.40	5.78	13.17
Bed-Rip/Disk Rigid	8R-30	MFWD 190	57,800	300	20	0.139	2.49	4.67	0.40	1.06	8.64	2.66	8.26	19.56
Bed-Rip/Disk Rigid	8R-38	MFWD 190	57,800	300	20	0.073	1.31	2.45	0.21	0.56	4.54	1.40	4.34	10.28
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	43,600	150	12	0.107	1.92	4.28	1.69	1.03	8.94	3.77	8.03	20.75
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.44	3.21	1.43	0.77	6.88	3.20	6.03	16.12
Bed-Subsoil Fold	8R-38	MFWD 225	71,000	150	12	0.080	1.44	3.21	2.07	0.77	7.51	4.61	6.03	18.16
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Fold	12R-38	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.66	8.14	1.92	1.97	15.70	4.29	15.25	35.26
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.44	5.42	1.78	1.31	10.97	3.98	10.17	25.12
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.92	4.28	1.46	1.03	8.71	3.26	8.03	20.01
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.83	4.07	1.78	0.98	8.67	3.99	7.63	20.30
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.44	3.21	1.46	0.77	6.90	3.25	6.03	16.19
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.64	3.92	0.57	0.78	7.93	1.91	5.90	15.76
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.77	2.97	0.58	0.61	5.95	1.94	4.79	12.69
Bed/Disk (Hipper)	8R-30	MFWD 190	33,100	160	10	0.093	1.68	3.15	0.77	0.72	6.33	2.56	5.57	14.47
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	114,000	160	10	0.049	0.88	1.65	1.40	0.37	4.33	4.64	2.93	11.91
Bed/Disk (Hipper)	12R-30	MFWD 225	87,500	160	10	0.062	1.12	2.48	1.36	0.60	5.58	4.51	4.66	14.76
Bed/Disk (Hipper)	12R-38	MFWD 225	114,000	160	10	0.049	0.88	1.96	1.40	0.47	4.73	4.64	3.68	13.06
Bed/Disk (Hipper)	16R40	MFWD 300	135,000	160	10	0.035	0.63	1.87	1.19	0.39	4.10	3.94	3.05	11.10
Bed/Disk (Hipper)Fl	8R-38	MFWD 190	45,800	160	10	0.074	1.32	2.49	0.84	0.56	5.24	2.80	4.40	12.45
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	36,100	160	10	0.074	1.32	2.49	0.66	0.56	5.06	2.21	4.40	11.67
Bed/Disk w/roller	8R-30	MFWD 190	59,900	160	10	0.093	1.68	3.15	1.40	0.72	6.96	4.63	5.57	17.17
Bed/Disk w/roller	8R-38	MFWD 190	68,500	160	10	0.074	1.32	2.49	1.26	0.56	5.66	4.19	4.40	14.26
Bed/Disk w/roller	12R-30/40	MFWD 225	113,000	160	10	0.062	1.12	2.48	1.76	0.60	5.98	5.83	4.66	16.48
Bed/Lister	4R-38	MFWD 150	31,900	160	8	0.228	4.09	6.06	1.70	1.22	13.09	6.60	9.13	28.83
Bed/Lister	6R-38	MFWD 150	36,000	160	8	0.120	2.15	3.19	1.01	0.64	7.00	3.92	4.80	15.73
Bed/Lister	8R-30	MFWD 190	48,300	160	8	0.114	2.04	3.84	1.29	0.87	8.06	4.99	6.78	19.84
Bed/Lister	8R-38	MFWD 190	48,700	160	8	0.090	1.61	3.03	1.03	0.69	6.38	3.98	5.36	15.73
Bed/Lister	8R-38 2x1	MFWD 190	81,500	160	8	0.060	1.07	2.02	1.14	0.46	4.71	4.43	3.57	12.72
Bed/Lister	12R-38	MFWD 225	81,500	160	8	0.060	1.07	2.39	1.14	0.58	5.20	4.43	4.48	14.12
Bed/Lister	16R-30	MFWD 225	94,300	160	8	0.035	0.63	1.39	0.77	0.33	3.14	3.00	2.62	8.77
Bed/Lister	16R40	MFWD 300	99,200	160	8	0.043	0.77	2.28	1.00	0.48	4.54	3.87	3.71	12.13
Bed/Lister-Roll-Fo	8R-38	MFWD 190	30,100	160	10	0.095	1.72	3.22	0.72	0.73	6.40	2.38	5.70	14.49
Bed/Lister-Roll-Fo	12R-30	MFWD 225	65,100	160	10	0.080	1.45	3.22	1.31	0.78	6.77	4.34	6.04	17.16
Bed/Lister-Roll-Fo	12R-38	MFWD 225	48,400	160	10	0.063	1.14	2.54	0.77	0.61	5.07	2.55	4.76	12.39
Bed/Lister-Roll-Fo	16R-30	MFWD 225	56,800	160	10	0.060	1.08	2.41	0.86	0.58	4.95	2.84	4.53	12.32
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.72	3.22	0.59	0.73	6.28	1.98	5.70	13.96
Blade-Box	6'-7'	MFWD 105	2,080	200	20	0.020	0.35	0.37	0.01	0.05	0.80	0.02	0.42	1.25
Boll Buggy	4R-38(250)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R-38(350)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Boll Buggy	6R-30(355)	MFWD 190	30,500	200	10	0.218	3.91	7.34	1.66	1.67	14.59	4.28	12.97	31.86
Boll Buggy	6R-38(355)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Chisel Plow-Folding	24'	MFWD 190	57,300	150	12	0.076	1.37	2.57	1.58	0.58	6.11	3.52	4.54	14.18
Chisel Plow-Folding	32'	MFWD 225	72,800	150	12	0.057	1.03	2.30	1.51	0.55	5.41	3.38	4.31	13.11
Chisel Plow-Folding	42'	MFWD 225	86,400	150	12	0.044	0.78	1.75	1.37	0.42	4.34	3.06	3.28	10.69
Chisel Plow-Folding	50'	MFWD 225	108,100	150	12	0.036	0.66	1.47	1.44	0.35	3.93	3.21	2.76	9.91
Chisel Plow-Folding	61'	MFWD 225	135,400	150	12	0.030	0.54	1.20	1.48	0.29	3.52	3.30	2.26	9.09
Chisel Plow-Rigid	10'	MFWD 170	15,300	150	12	0.184	3.31	5.56	1.02	1.16	11.06	2.27	8.98	22.32
Chisel Plow-Rigid	15'	2WD 130	20,300	150	12	0.123	2.21	2.83	0.90	0.52	6.47	2.01	3.90	12.39
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.84	4.09	0.49	0.99	7.42	1.10	7.67	16.20
Cultivate	4R-30	2WD 105	21,500	150	10	0.206	3.70	3.83	1.18	0.60	9.32	3.90	4.55	17.78
Cultivate	4R-38	2WD 105	21,500	150	10	0.162	2.91	3.01	0.93	0.42	7.29	3.07	3.19	13.55
Cultivate	6R-30	MFWD 150	28,100	150	10	0.137	2.46	3.65	1.03	0.73	7.88	3.40	5.50	16.79
Cultivate	6R-38	MFWD 150	28,000	150	10	0.108	1.94	2.88	0.81	0.58	6.22	2.67	4.34	13.24
Cultivate	8R-30	MFWD 190	38,400	150	10	0.103	1.85	3.46	1.05	0.79	7.16	3.48	6.13	16.79
Cultivate	8R-38	MFWD 190	38,300	150	10	0.073	1.32	2.47	0.75	0.56	5.11	2.48	4.37	11.98
Cultivate	8R-38 2x1	MFWD 190	59,100	150	10	0.054	0.97	1.82	0.85	0.41	4.07	2.82	3.22	10.12
Cultivate	12R-30	MFWD 225	62,000	150	10	0.068	1.23	2.73	1.13	0.66	5.77	3.75	5.13	14.66
Cultivate	12R-38	MFWD 225	59,100	150	10	0.054	0.97	2.16	0.85	0.52	4.51	2.82	4.05	11.39
Cultivate	16R-30	MFWD 225	83,400	150	10	0.051	0.92	2.05	1.14	0.49	4.62	3.78	3.85	12.26
Cultivate & Post	4R-30	2WD 105	27,300	150	10	0.220	4.94	4.09	1.60	0.57	11.21	5.29	4.32	20.82
Cultivate & Post	4R-38	2WD 105	27,300	150	10	0.173	3.89	3.22	1.26	0.45	8.82	4.16	3.40	16.40
Cultivate & Post	6R-30	MFWD 150	33,900	150	10	0.146	3.29	3.89	1.32	0.78	9.30	4.38	5.86	19.55
Cultivate & Post	6R-38	MFWD 150	33,800	150	10	0.115	2.60	3.07	1.04	0.61	7.33	3.44	4.63	15.42
Cultivate & Post	8R-30	MFWD 190	44,200	150	10	0.110	2.47	3.70	1.29	0.84	8.31	4.28	6.54	19.13
Cultivate & Post	8R-38	MFWD 190	44,100	150	10	0.086	1.95	2.92	1.02	0.66	6.57	3.37	5.17	15.12
Cultivate & Post	8R-38 2x1	MFWD 190	64,900	150	10	0.057	1.30	1.94	1.00	0.44	4.69	3.31	3.44	11.44

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------$/acre----------							
Cultivate & Post	12R-30	MFWD 225	67,800	150	10	0.073	1.64	2.92	1.32	0.70	6.60	4.38	5.47	16.46
Cultivate & Post	12R-38	MFWD 225	64,900	150	10	0.057	1.30	2.30	1.00	0.55	5.16	3.31	4.32	12.80
Cultivate & Post	16R-30	MFWD 225	89,200	150	10	0.055	1.23	2.19	1.30	0.53	5.26	4.32	4.10	13.69
Disk & Incorporate	14'	2WD 130	45,300	200	10	0.149	3.36	3.44	2.03	0.63	9.47	4.48	4.74	18.69
Disk & Incorporate	20'	MFWD 190	96,900	200	10	0.092	2.07	3.10	2.68	0.71	8.58	5.92	5.49	20.00
Disk & Incorporate	24'	MFWD 190	77,700	200	10	0.087	1.96	2.93	2.03	0.67	7.60	4.48	5.19	17.27
Disk & Incorporate	28'	MFWD 225	80,500	200	10	0.074	1.68	2.98	1.80	0.72	7.19	3.98	5.58	16.76
Disk & Incorporate	32'	MFWD 225	95,100	200	10	0.065	1.47	2.60	1.86	0.63	6.58	4.11	4.89	15.58
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.51	3.22	1.53	0.59	7.87	4.05	4.44	16.38
Disk Harrow	20'	MFWD 190	91,100	180	10	0.098	1.76	3.30	2.48	0.75	8.30	6.57	5.83	20.71
Disk Harrow	24'	MFWD 190	71,900	180	10	0.081	1.46	2.75	1.63	0.62	6.48	4.32	4.86	15.67
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.25	2.79	1.45	0.67	6.18	3.84	5.23	15.27
Disk Harrow	32'	MFWD 225	89,300	180	10	0.061	1.10	2.44	1.52	0.59	5.66	4.02	4.58	14.27
Disk Harrow	42'	MFWD 225	145,000	180	10	0.046	0.83	1.86	1.88	0.45	5.03	4.98	3.49	13.51
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.51	1.86	0.90	0.26	5.54	2.38	1.96	9.88
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.61	3.87	1.59	0.77	8.87	4.22	5.83	18.93
Disk Heavy	20'	MFWD 190	91,100	180	10	0.097	1.74	3.27	2.46	0.74	8.22	6.50	5.78	20.52
Disk Heavy	28'	MFWD 225	74,700	180	10	0.075	1.35	3.01	1.57	0.73	6.67	4.15	5.65	16.47
Disk Ripper	15'	MFWD 225	60,400	180	10	0.136	2.44	5.42	2.28	1.31	11.47	6.04	10.17	27.68
Ditcher		2WD 130	8,760	200	10	0.020	0.35	0.46	0.07	0.08	0.97	0.11	0.63	1.72
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.16	0.21	0.03	0.03	0.45	0.05	0.29	0.80
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.47	4.10	2.61	0.82	11.02	3.67	6.18	20.89
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.94	3.94	2.20	0.82	9.91	3.10	6.36	19.37
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.32	3.11	1.74	0.64	7.82	2.44	5.02	15.29
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.20	3.30	1.72	0.75	7.98	2.41	5.83	16.24
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.74	2.61	1.52	0.59	6.48	2.14	4.61	13.24
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.16	1.73	1.13	0.39	4.43	1.59	3.07	9.09
Fert Appl (Liquid)	12R-30	MFWD 225	28,800	150	8	0.078	1.76	3.13	1.50	0.75	7.16	2.11	5.86	15.14
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.16	2.05	1.07	0.49	4.79	1.50	3.86	10.15
Field Cult & Inc	42'	MFWD 225	91,300	100	10	0.037	0.84	1.50	0.86	0.36	3.58	4.55	2.82	10.95
Field Cult & Inc	50'	MFWD 225	92,600	100	10	0.031	0.71	1.26	0.73	0.30	3.01	3.88	2.36	9.27
Field Cult & Inc Fld	24'	MFWD 170	44,400	100	10	0.066	1.48	1.98	0.73	0.41	4.62	3.88	3.21	11.71
Field Cult & Inc Fld	32'	MFWD 190	67,200	100	10	0.049	1.11	1.66	0.83	0.38	3.99	4.40	2.94	11.34
Field Cult & Inc Rdg	12'	2WD 150	23,000	100	10	0.132	2.97	3.51	0.76	0.56	7.81	4.01	4.25	16.08
Field Cultivate Fld	24'	MFWD 170	38,600	100	10	0.062	1.11	1.87	0.60	0.39	3.98	3.17	3.02	10.17
Field Cultivate Fld	32'	MFWD 190	61,400	100	10	0.046	0.83	1.56	0.71	0.35	3.48	3.78	2.77	10.04
Field Cultivate Fld	42'	MFWD 225	80,900	100	10	0.035	0.63	1.41	0.71	0.34	3.11	3.80	2.65	9.57
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.53	1.18	0.61	0.28	2.63	3.27	2.23	8.13
Field Cultivate Rdg	12'	2WD 150	17,200	100	10	0.124	2.23	3.30	0.53	0.53	6.60	2.82	4.00	13.43
Grain Cart Corn	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.74	0.53	1.50	3.78
Grain Cart Corn	700 bu	MFWD 190	54,400	200	12	0.025	0.45	0.85	0.37	0.19	1.87	0.83	1.50	4.20
Grain Cart Corn	1000 bu	MFWD 225	74,000	200	12	0.025	0.45	1.00	0.50	0.24	2.21	1.13	1.88	5.23
Grain Cart Rice	500 bu	MFWD 190	35,100	200	12	0.062	1.12	2.10	0.59	0.48	4.29	1.32	3.71	9.33
Grain Cart Rice	700 bu	MFWD 190	54,400	200	12	0.055	0.98	1.85	0.81	0.42	4.07	1.80	3.27	9.14
Grain Cart Rice	1000 bu	MFWD 190	74,000	200	12	0.045	0.82	1.54	0.91	0.35	3.63	2.04	2.72	8.40
Grain Cart Soybean	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Soybean	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Soybean	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Cart Wht/Sor	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Wht/Sor	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Wht/Sor	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Drill	10'	2WD 130	42,700	150	8	0.188	5.09	4.34	3.01	0.79	13.24	7.28	5.97	26.51
Grain Drill	12'	2WD 130	51,400	150	8	0.157	4.24	3.61	3.02	0.66	11.55	7.31	4.97	23.84
Grain Drill	15'	MFWD 150	46,800	150	8	0.125	3.39	3.33	2.20	0.67	9.61	5.32	5.03	19.96
Grain Drill	20'	MFWD 170	53,500	150	8	0.094	2.54	2.83	1.89	0.59	7.86	4.56	4.58	17.01
Grain Drill	24'	MFWD 190	80,300	150	8	0.078	2.12	2.64	2.36	0.60	7.73	5.71	4.67	18.11
Grain Drill	30'	MFWD 225	96,600	150	8	0.062	1.69	2.50	2.27	0.60	7.08	5.49	4.69	17.27
Grain Drill	35'	MFWD 225	114,000	150	8	0.053	1.45	2.14	2.30	0.52	6.42	5.56	4.02	16.00
Grain Drill & Pre	10'	2WD 130	48,500	150	8	0.203	5.48	4.67	3.69	0.85	14.71	8.91	6.43	30.06
Grain Drill & Pre	12'	2WD 130	57,200	150	8	0.169	4.56	3.89	3.62	0.71	12.81	8.76	5.36	26.93
Grain Drill & Pre	15'	MFWD 150	52,600	150	8	0.135	3.65	3.59	2.67	0.72	10.64	6.44	5.41	22.50
Grain Drill & Pre	20'	MFWD 170	59,300	150	8	0.101	2.74	3.05	2.25	0.63	8.69	5.45	4.93	19.07
Grain Drill & Pre	24'	MFWD 190	86,100	150	8	0.084	2.28	2.84	2.73	0.65	8.51	6.59	5.03	20.14
Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.067	1.82	2.69	2.58	0.65	7.76	6.24	5.05	19.07
Grain Drill & Pre	35'	MFWD 225	120,000	150	8	0.058	1.56	2.31	2.61	0.56	7.04	6.30	4.33	17.68
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.69	2.50	1.34	0.60	6.15	3.24	4.69	14.09
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.16	2.17	0.31	0.49	4.14	0.59	3.84	8.58
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.92	1.74	0.27	0.39	3.34	0.52	3.07	6.94
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.69	1.30	0.28	0.29	2.59	0.54	2.30	5.44
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.58	1.28	0.29	0.31	2.47	0.55	2.41	5.44
Header - Corn	6R-30	265 hp	72,300	300	8	0.170	3.05	7.98	3.07	8.21	22.33	5.76	39.32	67.41
Header - Corn	6R-38	265 hp	73,500	300	8	0.134	2.41	6.30	2.47	6.48	17.67	4.62	31.04	53.34
Header - Corn	8R-30	265 hp	99,100	300	8	0.127	2.29	5.99	3.16	6.15	17.60	5.92	29.49	53.02
Header - Corn	8R-38	325 hp	87,300	300	8	0.100	1.81	5.81	2.20	5.57	15.39	4.12	26.68	46.21
Header - Corn	12R-20	325 hp	148,000	300	8	0.127	2.29	7.34	4.72	7.05	21.41	8.84	33.76	64.02
Header - Corn	12R-30	325 hp	135,000	300	8	0.085	1.52	4.89	2.87	4.70	14.00	5.37	22.50	41.88
Header - Draper (CL)	25' Rigid	265 hp	83,200	300	8	0.203	3.64	9.52	3.87	9.79	26.83	7.64	46.89	81.38
Header - Draper (CL)	30' Rigid	325 hp	85,600	300	8	0.169	3.03	9.73	3.31	9.34	25.43	6.55	44.73	76.73

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (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----------							
Header - Draper (CL)	36' Rigid	355 hp	89,900	300	8	0.141	2.53	8.86	2.90	8.06	22.36	5.73	38.61	66.72
Header - Draper (CL)	40' Rigid	425 hp	95,200	300	8	0.126	2.27	9.55	2.76	7.40	22.00	5.46	35.45	62.91
Header - Draper (SL)	25' Rigid	325 hp	83,200	300	8	0.176	3.15	10.12	3.35	9.71	26.35	6.62	46.52	79.51
Header - Draper (SL)	30' Rigid	325 hp	85,600	300	8	0.146	2.63	8.44	2.87	8.09	22.04	5.68	38.77	66.50
Header - Draper (SL)	36' Rigid	355 hp	89,900	300	8	0.122	2.19	7.68	2.51	6.98	19.38	4.97	33.46	57.82
Header - Draper (SL)	40' Rigid	425 hp	95,200	300	8	0.110	1.97	8.27	2.39	6.41	19.06	4.73	30.72	54.53
Header -RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	4.55	11.91	3.21	12.24	31.91	6.01	58.62	96.55
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.79	12.17	2.85	11.67	30.50	5.34	55.92	91.77
Header -RiceStrp(CL)	32'	325 hp	70,800	300	8	0.158	2.84	9.13	2.80	8.75	23.54	5.25	41.93	70.73
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.94	10.32	2.78	10.61	27.66	5.20	50.80	83.67
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	3.28	10.55	2.47	10.12	26.43	4.63	48.46	79.53
Header -RiceStrp(SL)	32'	325 hp	70,800	300	8	0.137	2.46	7.91	2.43	7.59	20.40	4.55	36.34	61.30
Header -Soybean	22' Flex	265 hp	42,600	300	8	0.116	2.08	5.44	1.23	5.59	14.36	2.31	26.81	43.49
Header -Soybean	25' Flex	325 hp	42,000	300	8	0.102	1.83	5.88	1.07	5.64	14.42	2.00	27.00	43.44
Header -Soybean	30' Flex	325 hp	48,600	300	8	0.085	1.52	4.89	1.03	4.70	12.16	1.93	22.50	36.60
Header -Soybean	35' Flex	355 hp	58,300	300	8	0.072	1.30	4.58	1.06	4.17	11.13	1.99	19.98	33.10
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	2.08	5.44	0.57	5.59	13.70	1.07	26.81	41.59
Header Wheat/Sorghum	25' Rigid	325 hp	41,800	300	8	0.102	1.83	5.88	1.06	5.64	14.42	1.99	27.00	43.42
Header Wheat/Sorghum	30' Rigid	325 hp	55,100	300	8	0.085	1.52	4.89	1.17	4.70	12.30	2.19	22.50	37.00
Land Plane	50'x16'	MFWD 190	13,500	200	10	0.151	2.72	5.10	0.40	1.16	9.39	1.35	9.01	19.76
Levee Pull & Seed	8 Blade	MFWD 170	17,600	100	10	0.003	0.06	0.10	0.01	0.02	0.20	0.08	0.17	0.46
Levee Pull (1m/80a)	8 blade	MFWD 170	8,370	100	10	0.003	0.06	0.10	0.00	0.02	0.19	0.03	0.17	0.41
Levee Splitter (1/80	32"	MFWD 150	9,220	100	10	0.004	0.07	0.11	0.00	0.02	0.21	0.05	0.16	0.43
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	5.89	7.34	1.89	1.67	16.80	4.87	12.97	34.66
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
NT Grain Drill	10'	2WD 130	42,400	150	8	0.235	6.36	5.42	3.74	0.99	16.53	9.04	7.46	33.04
NT Grain Drill	12'	2WD 130	57,200	150	8	0.163	4.41	3.76	3.51	0.69	12.39	8.47	5.18	26.05
NT Grain Drill	15'	MFWD 150	73,300	150	8	0.130	3.53	3.47	3.59	0.69	11.31	8.68	5.23	25.24
NT Grain Drill	20'	MFWD 170	98,900	150	8	0.098	2.65	2.95	3.64	0.61	9.86	8.79	4.77	23.43
NT Grain Drill	24'	MFWD 190	111,300	150	8	0.081	2.20	2.75	3.41	0.62	9.00	8.24	4.86	22.12
NT Grain Drill	30'	MFWD 225	110,200	150	8	0.065	1.76	2.60	2.70	0.63	7.71	6.53	4.89	19.13
NT Grain Drill & Pre	10'	2WD 130	48,200	150	8	0.211	5.71	4.86	3.82	0.89	15.29	9.22	6.70	31.23
NT Grain Drill & Pre	12'	2WD 130	63,000	150	8	0.176	4.75	4.05	4.16	0.74	13.72	10.05	5.58	29.36
NT Grain Drill & Pre	15'	MFWD 150	79,100	150	8	0.141	3.80	3.74	4.18	0.75	12.49	10.09	5.64	28.23
NT Grain Drill & Pre	20'	MFWD 170	105,000	150	8	0.105	2.85	3.18	4.16	0.66	10.86	10.05	5.13	26.06
NT Grain Drill & Pre	24'	MFWD 190	117,000	150	8	0.088	2.37	2.96	3.86	0.67	9.88	9.33	5.24	24.46
NT Grain Drill & Pre	30'	MFWD 225	116,000	150	8	0.070	1.90	2.80	3.06	0.68	8.46	7.40	5.26	21.13
NT Plant&Pre-Folding	8R-38	MFWD 170	83,600	150	8	0.083	2.25	2.51	2.62	0.52	7.92	6.32	4.06	18.30
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	119,000	150	8	0.055	1.50	1.67	2.48	0.34	6.01	5.99	2.70	14.71
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.85	3.55	3.28	0.81	10.51	7.92	6.28	24.72
NT Plant&Pre-Folding	12R-30	MFWD 190	108,000	150	8	0.070	1.90	2.37	2.85	0.54	7.67	6.89	4.19	18.75
NT Plant&Pre-Folding	12R-38	MFWD 190	119,000	150	8	0.055	1.50	1.87	2.48	0.42	6.28	5.99	3.30	15.59
NT Plant&Pre-Folding	16R-30	MFWD 190	193,000	150	8	0.052	1.42	1.77	3.82	0.40	7.44	9.23	3.14	19.82
NT Plant&Pre-Folding	23R-15	MFWD 190	218,000	150	8	0.073	1.98	2.47	6.00	0.56	11.02	14.49	4.36	29.88
NT Plant&Pre-Folding	24R-20	MFWD 190	254,000	150	8	0.052	1.42	1.77	5.03	0.40	8.65	12.15	3.14	23.95
NT Plant&Pre-Folding	24R-30	MFWD 190	227,000	150	8	0.035	0.95	1.18	3.00	0.27	5.41	7.24	2.09	14.75
NT Plant&Pre-Folding	31R-15	MFWD 225	267,000	150	8	0.054	1.47	2.17	5.47	0.52	9.65	13.21	4.08	26.94
NT Plant&Pre-Folding	32R-15	MFWD 225	272,000	150	8	0.052	1.42	2.10	5.39	0.51	9.43	13.02	3.94	26.40
NT Plant&Pre-Rigid	4R-30	2WD 130	41,900	150	8	0.211	5.71	4.86	3.32	0.89	14.79	8.02	6.70	29.52
NT Plant&Pre-Rigid	4R-38	2WD 130	37,500	150	8	0.166	4.49	3.83	2.34	0.70	11.37	5.65	5.27	22.31
NT Plant&Pre-Rigid	6R-30	MFWD 150	50,800	150	8	0.141	3.80	3.74	2.68	0.75	10.99	6.48	5.64	23.12
NT Plant&Pre-Rigid	6R-38	MFWD 150	49,500	150	8	0.111	3.00	2.95	2.06	0.59	8.62	4.98	4.45	18.06
NT Plant&Pre-Rigid	8R-30	MFWD 170	65,200	150	8	0.105	2.85	3.18	2.58	0.66	9.29	6.24	5.13	20.67
NT Plant&Pre-Rigid	8R-38	MFWD 170	62,300	150	8	0.083	2.25	2.51	1.95	0.52	7.25	4.71	4.06	16.02
NT Plant&Pre-Rigid	11R-15	MFWD 170	70,000	150	8	0.143	3.88	4.33	3.77	0.90	12.89	9.11	6.99	29.00
NT Plant&Pre-Rigid	11R-20	MFWD 170	73,800	150	8	0.115	3.12	3.47	3.19	0.72	10.52	7.72	5.61	23.86
NT Plant&Pre-Rigid	12R-20	MFWD 190	78,700	150	8	0.105	2.85	3.55	3.12	0.81	10.34	7.53	6.28	24.17
NT Plant&Pre-Rigid	12R-30	MFWD 190	100,400	150	8	0.070	1.90	2.37	2.65	0.54	7.47	6.40	4.19	18.07
NT Plant&Pre-Rigid	15R-15	MFWD 190	96,800	150	8	0.113	3.05	3.80	4.10	0.86	11.83	9.91	6.72	28.47
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.50	2.21	3.61	0.53	7.87	8.71	4.15	20.74
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	135,300	150	8	0.083	2.25	3.33	4.24	0.80	10.63	10.24	6.24	27.12
NT Plant-Folding	8R-38	MFWD 170	77,700	150	8	0.077	2.09	2.33	2.26	0.48	7.18	5.46	3.77	16.41
NT Plant-Folding	8R-38 2x1	MFWD 170	109,000	150	8	0.051	1.39	1.55	2.11	0.32	5.38	5.10	2.51	13.00
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.65	3.30	2.85	0.75	9.56	6.88	5.83	22.29
NT Plant-Folding	12R-30	MFWD 190	97,600	150	8	0.065	1.76	2.20	2.39	0.50	6.87	5.78	3.89	16.54
NT Plant-Folding	12R-38	MFWD 190	109,000	150	8	0.051	1.39	1.73	2.11	0.39	5.64	5.10	3.07	13.81
NT Plant-Folding	16R-30	MFWD 190	182,000	150	8	0.049	1.32	1.65	3.35	0.37	6.70	8.09	2.91	17.71
NT Plant-Folding	23R-15	MFWD 190	207,000	150	8	0.068	1.84	2.29	5.29	0.52	9.95	12.77	4.05	26.78
NT Plant-Folding	24R-20	MFWD 190	244,000	150	8	0.049	1.32	1.65	4.49	0.37	7.84	10.84	2.91	21.61
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.88	1.10	2.55	0.25	4.79	6.16	1.94	12.90
NT Plant-Folding	31R-15	MFWD 225	256,000	150	8	0.050	1.37	2.02	4.87	0.49	8.75	11.76	3.79	24.30
NT Plant-Folding	32R-15	MFWD 225	261,000	150	8	0.049	1.32	1.95	4.80	0.47	8.56	11.60	3.66	23.83
NT Plant-Rigid	4R-30	2WD 130	36,100	150	8	0.196	5.30	4.52	2.65	0.83	13.31	6.41	6.22	25.95
NT Plant-Rigid	4R-38	2WD 130	31,600	150	8	0.154	4.17	3.56	1.83	0.65	10.22	4.42	4.90	19.54
NT Plant-Rigid	6R-30	MFWD 150	45,000	150	8	0.130	3.53	3.47	2.20	0.69	9.92	5.33	5.23	20.49
NT Plant-Rigid	6R-38	MFWD 150	43,600	150	8	0.103	2.79	2.74	1.69	0.55	7.77	4.08	4.13	15.99

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (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	8R-30	MFWD 170	59,400	150	8	0.098	2.65	2.95	2.18	0.61	8.41	5.28	4.77	18.46
NT Plant-Rigid	8R-38	MFWD 170	56,500	150	8	0.077	2.09	2.33	1.64	0.48	6.56	3.97	3.77	14.30
NT Plant-Rigid	11R-15	MFWD 170	64,200	150	8	0.133	3.60	4.02	3.21	0.83	11.68	7.76	6.49	25.94
NT Plant-Rigid	11R-20	MFWD 170	68,000	150	8	0.107	2.89	3.23	2.73	0.67	9.54	6.60	5.21	21.36
NT Plant-Rigid	12R-20	MFWD 190	72,900	150	8	0.098	2.65	3.30	2.68	0.75	9.39	6.48	5.83	21.71
NT Plant-Rigid	12R-30	MFWD 190	90,000	150	8	0.065	1.76	2.20	2.20	0.50	6.68	5.33	3.89	15.91
NT Plant-Rigid	15R-15	MFWD 190	86,500	150	8	0.105	2.83	3.53	3.40	0.80	10.58	8.22	6.24	25.05
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.39	2.05	3.15	0.49	7.11	7.62	3.86	18.60
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	2.09	3.09	3.78	0.74	9.72	9.13	5.79	24.65
Peanut Cond.& Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.79	3.36	0.25	0.76	6.18	0.51	5.94	12.64
Peanut Conditioner	6-Row	MFWD 190	24,800	300	20	0.100	1.79	3.36	0.49	0.76	6.42	0.78	5.94	13.15
Peanut Dig/Invertor	4R-30	MFWD 190	45,300	300	15	0.235	4.23	7.93	2.65	1.81	16.63	4.09	14.02	34.75
Peanut Dig/Invertor	4R-38	MFWD 190	45,300	300	15	0.186	3.34	6.26	2.09	1.43	13.13	3.23	11.07	27.44
Peanut Dig/Invertor	6R-38	MFWD 190	64,100	300	15	0.124	2.22	4.17	1.39	0.95	8.74	3.05	7.37	19.17
Peanut Dump Cart	6-Row	MFWD 190	70,000	300	20	0.310	5.56	10.42	1.26	2.38	19.63	7.19	18.43	45.26
Peanut Harvester	4R-30	MFWD 225	175,000	300	20	0.849	15.24	33.86	8.42	8.20	65.74	47.27	63.48	176.50
Peanut Harvester	4R-38	MFWD 225	175,000	300	20	0.934	16.76	37.23	9.26	9.02	72.29	53.10	69.79	195.18
Peanut Harvester	6R-38	MFWD 225	194,000	300	20	0.625	11.21	24.89	5.86	6.03	48.00	39.36	46.67	134.05
Peanut Lifter	6-Row	MFWD 225	9,960	300	20	0.100	1.79	3.98	0.20	0.96	6.94	0.31	7.46	14.73
Peanut Plt&Pre Fold.	12R-38	MFWD 190	107,000	150	8	0.080	2.17	2.70	3.22	0.61	8.72	7.78	4.78	21.29
Peanut Plt&Pre Rigid	8R-30	MFWD 190	57,100	150	8	0.152	4.12	5.13	3.27	1.17	13.71	7.89	9.08	30.69
Peanut Plt&Pre Rigid	8R-38	MFWD 190	54,200	150	8	0.120	3.26	4.06	2.45	0.92	10.70	5.92	7.18	23.81
Peanut Ptlt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	3.26	4.06	5.75	0.92	14.00	13.88	7.18	35.06
Pipe Spool 160ac	1/4m roll	2WD 130	6,480	15	12	0.003	0.11	0.07	0.01	0.01	0.20	0.16	0.09	0.47
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.20	0.08	0.00	0.01	0.30	0.01	0.11	0.43
Plant & Pre-Folding	8R-38	MFWD 170	75,400	150	8	0.080	2.16	2.41	2.26	0.50	7.35	5.47	3.89	16.73
Plant & Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.053	1.44	1.60	2.14	0.33	5.53	5.17	2.59	13.30
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.74	3.41	2.68	0.78	9.62	6.48	6.03	22.15
Plant & Pre-Folding	12R-30	MFWD 190	95,700	150	8	0.067	1.82	2.27	2.42	0.52	7.05	5.86	4.02	16.94
Plant & Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.053	1.44	1.79	2.14	0.41	5.79	5.17	3.17	14.14
Plant & Pre-Folding	16R-30	MFWD 190	177,000	150	8	0.050	1.37	1.70	3.36	0.39	6.83	8.13	3.01	17.99
Plant & Pre-Folding	23R-15	MFWD 190	194,000	150	8	0.070	1.90	2.37	5.12	0.54	9.94	12.38	4.19	26.52
Plant & Pre-Folding	24R-20	MFWD 190	229,000	150	8	0.050	1.37	1.70	4.35	0.39	7.82	10.52	3.01	21.37
Plant & Pre-Folding	24R-30	MFWD 190	202,000	150	8	0.033	0.91	1.13	2.56	0.26	4.87	6.18	2.01	13.07
Plant & Pre-Folding	31R-15	MFWD 225	235,000	150	8	0.052	1.41	2.09	4.62	0.50	8.63	11.16	3.91	23.71
Plant & Pre-Folding	32R-15	MFWD 225	239,000	150	8	0.050	1.37	2.02	4.55	0.49	8.43	10.98	3.79	23.20
Plant & Pre-Rigid	4R-30	2WD 130	37,800	150	8	0.203	5.48	4.67	2.87	0.85	13.89	6.94	6.43	27.27
Plant & Pre-Rigid	4R-38	2WD 130	33,400	150	8	0.159	4.31	3.68	2.00	0.67	10.67	4.83	5.06	20.57
Plant & Pre-Rigid	6R-30	MFWD 150	44,700	150	8	0.135	3.65	3.59	2.26	0.72	10.24	5.47	5.41	21.13
Plant & Pre-Rigid	6R-38	MFWD 150	43,300	150	8	0.106	2.88	2.83	1.73	0.57	8.03	4.18	4.27	16.49
Plant & Pre-Rigid	8R-30	MFWD 170	57,100	150	8	0.101	2.74	3.05	2.17	0.63	8.61	5.24	4.93	18.79
Plant & Pre-Rigid	8R-38	MFWD 170	54,200	150	8	0.080	2.16	2.41	1.63	0.50	6.71	3.93	3.89	14.55
Plant & Pre-Rigid	11R-15	MFWD 170	58,800	150	8	0.148	4.00	4.46	3.26	0.93	12.66	7.88	7.20	27.75
Plant & Pre-Rigid	11R-20	MFWD 170	62,600	150	8	0.110	2.99	3.34	2.60	0.69	9.63	6.28	5.39	21.31
Plant & Pre-Rigid	12R-20	MFWD 190	66,500	150	8	0.101	2.74	3.41	2.53	0.78	9.47	6.11	6.03	21.61
Plant & Pre-Rigid	12R-30	MFWD 190	88,100	150	8	0.067	1.82	2.27	2.23	0.52	6.86	5.39	4.02	16.28
Plant & Pre-Rigid	15R-15	MFWD 190	81,500	150	8	0.108	2.93	3.65	3.31	0.83	10.73	8.01	6.45	25.20
Plant & Pre-TwinRow	12R-30/40	MFWD 225	161,000	150	8	0.053	1.44	2.12	3.22	0.51	7.31	7.78	3.99	19.09
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	2.16	3.19	3.82	0.77	9.96	9.22	5.99	25.18
Plant - Folding	8R-38	MFWD 170	69,600	150	8	0.074	2.01	2.24	1.94	0.46	6.66	4.69	3.62	14.98
Plant - Folding	8R-38 2x1	MFWD 170	96,500	150	8	0.049	1.33	1.49	1.79	0.31	4.94	4.33	2.41	11.68
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.54	3.17	2.30	0.72	8.74	5.56	5.60	19.91
Plant - Folding	12R-30	MFWD 190	85,400	150	8	0.062	1.69	2.11	2.01	0.48	6.30	4.85	3.73	14.90
Plant - Folding	12R-38	MFWD 190	96,500	150	8	0.049	1.33	1.66	1.79	0.38	5.18	4.33	2.95	12.47
Plant - Folding	16R-30	MFWD 190	166,000	150	8	0.047	1.27	1.58	2.93	0.36	6.15	7.08	2.80	16.04
Plant - Folding	23R-15	MFWD 190	184,000	150	8	0.065	1.76	2.20	4.51	0.50	8.99	10.90	3.89	23.79
Plant - Folding	24R-20	MFWD 190	219,000	150	8	0.047	1.27	1.58	3.87	0.36	7.09	9.34	2.80	19.24
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.84	1.05	2.16	0.24	4.31	5.23	1.86	11.41
Plant - Folding	31R-15	MFWD 225	225,000	150	8	0.048	1.31	1.94	4.11	0.47	7.83	9.92	3.63	21.40
Plant - Folding	32R-15	MFWD 225	229,000	150	8	0.047	1.27	1.87	4.04	0.45	7.65	9.77	3.52	20.94
Plant - Rigid	4R-30	2WD 130	32,000	150	8	0.188	5.09	4.34	2.26	0.79	12.49	5.46	5.97	23.92
Plant - Rigid	4R-38	2WD 130	27,600	150	8	0.148	4.00	3.41	1.53	0.62	9.59	3.70	4.70	18.00
Plant - Rigid	6R-30	MFWD 150	38,900	150	8	0.125	3.39	3.33	1.83	0.67	9.23	4.42	5.03	18.69
Plant - Rigid	6R-38	MFWD 150	37,500	150	8	0.099	2.67	2.63	1.39	0.53	7.24	3.36	3.97	14.58
Plant - Rigid	8R-30	MFWD 170	51,300	150	8	0.094	2.54	2.83	1.81	0.59	7.79	4.37	4.58	16.74
Plant - Rigid	8R-38	MFWD 170	48,400	150	8	0.074	2.01	2.24	1.35	0.46	6.07	3.26	3.62	12.96
Plant - Rigid	11R-15	MFWD 170	53,000	150	8	0.137	3.71	4.14	2.73	0.86	11.45	6.60	6.68	24.74
Plant - Rigid	11R-20	MFWD 170	56,800	150	8	0.103	2.78	3.10	2.19	0.64	8.72	5.29	5.00	19.02
Plant - Rigid	12R-20	MFWD 190	60,700	150	8	0.094	2.54	3.17	2.14	0.72	8.58	5.18	5.60	19.37
Plant - Rigid	12R-30	MFWD 190	77,800	150	8	0.062	1.69	2.11	1.83	0.48	6.12	4.42	3.73	14.29
Plant - Rigid	15R-15	2WD 150	71,200	150	8	0.094	2.54	2.50	2.51	0.40	7.97	6.07	3.03	17.08
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.33	1.97	2.79	0.47	6.58	6.73	3.70	17.03
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	2.01	2.96	3.38	0.71	9.08	8.16	5.56	22.81
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	2.23	2.86	0.21	0.52	5.84	0.38	3.94	10.16
Roller/Cultipacker	20'	MFWD 150	13,500	300	12	0.074	1.33	1.98	0.23	0.39	3.95	0.41	2.98	7.36
Roller/Cultipacker	30'	MFWD 170	21,100	300	12	0.049	0.89	1.49	0.24	0.31	2.95	0.43	2.41	5.80
Roller/Cultipacker	38'	MFWD 225	27,500	300	12	0.039	0.70	1.56	0.25	0.37	2.90	0.44	2.93	6.28
Roller/Stubble	20'	2WD 50	15,900	300	12	0.074	1.33	0.66	0.28	0.06	2.34	0.48	0.49	3.32
Roller/Stubble	32'	MFWD 225	23,700	300	12	0.046	0.83	1.85	0.26	0.45	3.40	0.45	3.48	7.34

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (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----------							
Rotary Cutter	7'	MFWD 130	6580	185	10	0.168	3.02	3.87	0.89	0.89	8.69	0.79	6.73	16.21
Rotary Cutter	12'	2WD 150	20,200	185	10	0.098	1.76	2.60	1.60	0.42	6.40	1.41	3.15	10.97
Rotary Cutter-Flex	15'	MFWD 150	27,300	185	10	0.078	1.40	2.08	1.73	0.41	5.65	1.53	3.14	10.33
Rotary Cutter-Flex	20'	MFWD 150	40,500	185	10	0.058	1.05	1.56	1.93	0.31	4.87	1.70	2.35	8.93
Row Cond & Inc-Fold.	26'	MFWD 190	37,600	100	10	0.063	1.42	2.13	0.59	0.48	4.64	3.15	3.77	11.57
Row Cond & Inc-Fold.	38'	MFWD 225	49,800	100	10	0.043	0.97	1.72	0.54	0.41	3.66	2.85	3.24	9.76
Row Cond & Inc-Rigid	13'	2WD 130	18,700	100	10	0.126	2.85	2.92	0.59	0.53	6.90	3.13	4.02	14.06
Row Cond & Inc-Rigid	21'	2WD 170	26,900	100	10	0.078	1.76	2.36	0.52	0.29	4.95	2.79	2.25	10.00
Row Cond & Inc-Rigid	26'	MFWD 190	29,300	100	10	0.026	0.59	0.89	0.19	0.20	1.89	1.03	1.58	4.50
Row Cond Folding	26'	MFWD 225	31,900	100	10	0.059	1.07	2.37	0.47	0.57	4.50	2.51	4.46	11.48
Row Cond Folding	38'	MFWD 225	40,100	100	10	0.040	0.73	1.62	0.40	0.39	3.16	2.16	3.05	8.38
Row Cond Rigid	13'	2WD 130	12,900	100	10	0.119	2.14	2.74	0.38	0.50	5.78	2.03	3.78	11.60
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.32	2.22	0.39	0.27	4.21	2.07	2.12	8.41
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	1.07	2.00	0.35	0.45	3.89	1.86	3.55	9.30
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.12	2.10	1.07	0.48	4.78	3.56	3.71	12.06
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.29	2.42	0.68	0.55	4.95	2.26	4.28	11.51
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.84	1.86	0.66	0.45	3.83	2.21	3.50	9.54
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.60	3.00	0.85	0.68	6.14	2.83	5.30	14.29
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.29	2.42	0.76	0.55	5.03	2.52	4.28	11.84
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.13	1.41	0.34	0.32	3.21	0.85	2.50	6.57
Spray (ATV Ropewick)	75"	800 CC	730	200	8	0.260	5.85	0.58	0.08	0.49	7.02	0.13	2.37	9.53
Spray (ATV)	20'	800 CC	1,440	200	8	0.084	1.90	0.19	0.05	0.16	2.30	0.08	0.77	3.16
Spray (Band)	27' Fold	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16
Spray (Band)	40' Fold	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05
Spray (Band)	50' Fold	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01
Spray (Band)	60' Fold	MFWD 170	18,600	200	8	0.028	0.63	0.84	0.24	0.17	1.90	0.36	1.37	3.64
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,890	200	8	0.130	2.92	3.45	0.54	0.69	7.62	0.81	5.20	13.64
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,400	200	8	0.084	1.90	2.24	0.41	0.45	5.01	0.61	3.38	9.01
Spray (Bcast/HB)	27' Fold	MFWD 170	13,000	200	8	0.062	1.40	1.88	0.38	0.39	4.07	0.57	3.04	7.68
Spray (Bcast/HB)	27' Rigid	MFWD 170	12,200	200	8	0.062	1.40	1.88	0.35	0.39	4.04	0.53	3.04	7.62
Spray (Bcast/HB)	30' Fold	MFWD 170	18,700	200	8	0.056	1.26	1.69	0.49	0.35	3.81	0.74	2.74	7.29
Spray (Bcast/HB)	40' Fold	MFWD 170	22,600	200	8	0.042	0.95	1.27	0.44	0.26	2.93	0.67	2.05	5.66
Spray (Broadcast)	27'	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16
Spray (Broadcast)	40'	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05
Spray (Broadcast)	50'	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01
Spray (Broadcast)	60'	MFWD 170	18,600	200	8	0.028	0.63	0.84	0.24	0.17	1.90	0.36	1.37	3.64
Spray (Direct/Hood)	8R-30	MFWD 170	19,000	200	8	0.084	1.90	2.54	0.75	0.53	5.73	1.12	4.11	10.97
Spray (Direct/Hood)	8R-38	MFWD 170	19,800	200	8	0.066	1.50	2.01	0.62	0.42	4.55	0.92	3.24	8.73
Spray (Direct/Hood)	12R-30	MFWD 170	26,100	200	8	0.056	1.26	1.69	0.69	0.35	4.01	1.03	2.74	7.78
Spray (Direct/Hood)	12R-38	MFWD 170	27,200	200	8	0.044	1.00	1.34	0.56	0.27	3.18	0.85	2.16	6.20
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.90	2.54	0.77	0.53	5.75	1.15	4.11	11.02
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.50	2.01	0.61	0.42	4.54	0.91	3.24	8.71
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	1.00	1.34	0.61	0.27	3.23	0.92	2.16	6.32
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.26	1.69	0.78	0.35	4.09	1.16	2.74	8.00
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	1.00	1.34	0.61	0.27	3.23	0.92	2.16	6.32
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.40	2.49	1.01	0.60	5.52	1.52	4.68	11.73
Spray (Levee Leaper)	50'	MFWD 225	21,200	200	8	0.033	0.76	1.34	0.33	0.32	2.77	0.50	2.52	5.80
Spray (Pull Type)	60'	MFWD 225	75,100	200	8	0.028	0.63	1.12	0.99	0.27	3.02	1.48	2.10	6.61
Spray (Pull Type)	80'	MFWD 225	69,400	200	8	0.021	0.47	0.84	0.68	0.20	2.21	1.03	1.57	4.82
Spray (Pull Type)	90'	MFWD 225	70,400	200	8	0.018	0.42	0.74	0.62	0.18	1.97	0.92	1.40	4.30
Spray (Pull Type)	120'	MFWD 225	101,700	200	8	0.014	0.31	0.56	0.67	0.13	1.68	1.00	1.05	3.74
Spray (Ropewick)	20'	MFWD 190	3,630	200	8	0.084	1.90	2.84	0.14	0.65	5.54	0.21	5.03	10.78
Spray (Spot)	27'	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16
Spray (Spot)	40'	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05
Spray (Spot)	50'	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01
Spray (Spot)	60'	MFWD 225	18,600	200	8	0.028	0.63	1.12	0.24	0.27	2.27	0.36	2.10	4.75
Stalk Shredder	14'	MFWD 150	36,300	200	10	0.117	2.11	3.13	3.74	0.62	9.61	2.82	4.71	17.16
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.48	2.19	2.38	0.44	6.50	1.80	3.30	11.60
Stalk Shredder-Flail	12'	MFWD 150	30,000	200	10	0.137	2.46	3.65	3.60	0.73	10.46	2.72	5.50	18.69
Stalk Shredder-Flail	15'	MFWD 150	34,400	200	10	0.110	1.97	2.92	3.31	0.58	8.79	2.50	4.40	15.69
Stalk Shredder-Flail	18'	MFWD 150	53,400	200	10	0.091	1.64	2.43	4.28	0.48	8.85	3.23	3.66	15.75
Stalk Shredder-Flail	20'	MFWD 150	43,900	200	10	0.082	1.48	2.19	3.16	0.44	7.28	2.39	3.30	12.97
Stalk Shredder-Flail	25'	MFWD 150	69,600	200	10	0.066	1.18	1.75	4.01	0.35	7.30	3.03	2.64	12.98
Strip Till	8R-38	MFWD 225	66,000	150	10	0.061	1.10	2.45	1.76	0.59	5.91	3.58	4.60	14.10
Strip Till	12R-30	MFWD 225	112,000	150	10	0.061	1.10	2.45	2.99	0.59	7.14	6.08	4.60	17.82
Strip Till	12R-40	MFWD 225	113,000	150	10	0.046	0.82	1.84	2.26	0.44	5.38	4.60	3.45	13.43
Subsoiler	3 shank	MFWD 190	5,690	100	15	0.204	3.66	6.87	0.38	1.57	12.49	1.27	12.14	25.92
Subsoiler	4 shank	MFWD 225	14,800	100	15	0.153	2.75	6.12	0.75	1.48	11.11	2.49	11.47	25.08
Subsoiler	5 shank	MFWD 225	18,300	100	15	0.122	2.19	4.87	0.74	1.18	8.99	2.45	9.13	20.59
Subsoiler low-till	6 shank	MFWD 225	26,600	100	15	0.102	1.83	4.07	0.90	0.98	7.79	2.98	7.63	18.41
Subsoiler low-till	8 shank	MFWD 225	25,700	100	15	0.076	1.37	3.04	0.65	0.73	5.81	2.15	5.71	13.69

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

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024

ITEM NAME	UNIT	PRICE
		dollars
ADJUVANTS		
Agri-Dex	pt	3.00
AMS SuperMax	pt	3.81
Class Act NG	pt	5.00
Crop Oil Conc.(Pet.)	pt	2.86
Crop Oil Conc.(Veg.)	pt	2.90
Dyne-A-Pak	pt	6.88
Fire-Zone	pt	3.94
Herbimax	pt	2.75
Induce	pt	5.00
MSO	pt	1.34
Penetrator Plus	pt	2.32
Surfactant	pt	3.30
CLEANING		
Cleaning Peanuts	ton	18.00
CROP CONSULTANT		
Corn Consultant	acre	6.00
Cotton Consultant	acre	8.00
Peanut Consultant	acre	9.25
Rice Consultant	acre	8.00
Sorghum Consultant	acre	6.00
Soybeans Consultant	acre	6.50
Wheat Consultant	acre	5.50
CUSTOM FERTILIZE		
App Fert by Air	cwt	8.00
App Fert by Air(Mi	appl	8.00
Custom Apply Fert	acre	7.50
CUSTOM LIME		
Lime (Spread)	ton	65.00
CUSTOM PLANT		
Custom Plant	acre	7.50
Custom Plant Air	cwt	8.43
CUSTOM SPRAY		
App by Air (3 gal)	appl	6.87
App by Air (5 gal)	appl	8.11
App by Air (10 gal)	appl	10.57
Custom Spray Ground	acre	7.00
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		
Agrotain Ultra	pt	12.50
Amm Sulfate (21% N)	cwt	26.00
Boron Plus	pt	5.10
DAP	cwt	47.21
Fert 10-34-0	cwt	40.00
Fert 10-34-0	gal	4.66
Fert 11-37-0	cwt	41.25
Fert 41-0-0-4	cwt	38.00
Lime	ton	55.00
NBPT	pt	18.00
Phosphorus(46% P2O5)	cwt	39.25
Potash (60% K2O)	cwt	36.20
Sulfur Plus	pt	2.62
UAN (32% N)	cwt	36.15
UAN (32%)	gal	4.00
UAN + Sulfur (28%)	cwt	31.10
UAN + Sulfur (28%)	gal	3.46
Urea, Solid (46% N)	cwt	31.69
Zinc Plus	pt	3.50
FUNGICIDES		
Abound	oz	1.87
Alfa Guard	lb	1.62
Allegiance Flowabl	oz	6.33
Ameristar Top	oz	2.52
Approach Prima	pt	34.50
Apron Maxx RTA	oz	1.02
Artisan	oz	0.70
Avaris	oz	1.41
Avicta 500 Soybean	oz	2.14
Bravo Weather Stick	pt	5.62
Captan 4L	pt	4.50
Convoy	oz	1.44
Cotton Seed Trt.	acre	20.00
CruiserMaxx Vibrance	oz	7.63
Elatus	oz	3.81
Flint Extra	oz	10.11
Headline EC	oz	5.98
Miravis Ace	oz	1.78
Miravis Top	oz	1.52
Priaxor Xemium	oz	4.06
Propimax EC	pt	12.50
Prosaro	oz	1.89
Provost Optimum	oz	2.17
Provost Silver	oz	1.52
Quadris	oz	6.25
Quadris Top	oz	3.00
Quadris Top SBX	oz	3.13
Quilt	pt	4.00
Quilt XCEL	pt	21.75
Stratego	pt	22.50
Stratego YLD	oz	2.65
Tilt 3.6 EC	oz	1.02
Tilt/ Bravo SE	oz	0.81
Trivapro	oz	1.48
GINNING		
Gin & Haul	lb	0.11
GROWTH REGULATORS		
Mepex	oz	0.09
Mepichlor 4.2%	oz	0.17
Mepiquat	oz	0.07
Mepstar 6	oz	0.09
Palisade	oz	1.47
Pentia	oz	0.41
Pix WSG	oz	1.36
Stance	oz	1.40
Veto	oz	0.07
HARVEST AIDS		
Adios	oz	0.99
Boll Buster	oz	0.34
Def/Folex	pt	11.25
Defol 5	gal	8.61
Display	oz	10.59
Ethephon 6E	pt	3.38
Finish 6	pt	10.93
Folex 6EC	pt	11.25
Freefall SC	oz	0.89
Ginstar EC	pt	29.72
Gramoxone SL	oz	0.33
Sharpen	oz	7.91
Sodium Chlorate 5L	gal	8.61
SuperBoll	oz	0.18
Thidiazuron 4lb	oz	1.14
Tribufos 6lb	pt	11.25
Vacate	oz	1.39
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
HERBICIDES		
2,4-D Amine 4	pt	2.72
2,4-D Ester	pt	4.87
AAtrex 4L	pt	3.00
Accent Q	oz	23.39
Acuron	oz	0.56

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	8.13	Halomax	oz	21.11
Aim 2EC	oz	8.13	Harmony Extra SG	oz	11.00
Anthem Flex	oz	5.57	Helmet	oz	0.48
Anthem Maxx	oz	4.50	Huskie	oz	0.94
Armezon Pro	oz	1.12	Impact	oz	19.64
Atrazine 4L	pt	2.71	Intimidator	oz	0.64
Atrazine 90DF	lb	5.09	Leadoff	oz	7.96
Authority First	lb	37.75	League	oz	8.06
Authority Elite	pt	14.50	Lexar	pt	7.00
Authority Maxx	lb	68.82	Liberty 280	oz	0.64
Authority MTZ	lb	19.75	Loyant	oz	2.29
Avatar	pt	8.04	Makaze	oz	0.16
Avenger	pt	10.01	Metolachlor	pt	8.23
Axial XL	oz	1.71	Metribuzin 4L	pt	21.13
Axiom	oz	2.25	Metribuzin 75	lb	10.90
Banvel	pt	10.94	MSMA	pt	6.18
Barrage	pt	4.13	Newpath	oz	4.28
Basagran	pt	5.43	Obey	oz	1.08
Boundary	pt	12.00	Osprey	oz	3.58
Brake	oz	1.48	Outlook	pt	15.75
Broadaxe	pt	14.50	Panther Pro	oz	6.61
Broadhead	lb	58.21	Parallel	pt	7.76
Bucaneer Plus	pt	3.13	Paraquat	oz	0.23
Buctril	pt	4.28	Parazone 3SL	oz	0.61
Butyrac 200 (2,4-DB)	pt	3.52	Permit	oz	19.50
Cadre	oz	1.87	Permit Plus	oz	22.89
Callisto	oz	2.99	PowerFlex	oz	7.21
Canopy	oz	3.25	Preface	oz	4.99
Caparol	pt	4.97	Prefix	pt	7.81
Capreno	oz	4.00	Provisia	oz	0.88
Cinch	pt	14.18	Prowl 3.3 EC	pt	6.63
Cinch ATZ	pt	6.26	Quelex	oz	11.30
Clarity	pt	14.29	RealmQ	oz	4.63
Classic	oz	16.67	RebelEx	oz	2.00
Clearpath	oz	4.24	Reflex	pt	7.34
Clethodim 2E	oz	0.33	Regiment	oz	45.96
Clincher SF	oz	2.54	Resicore	oz	0.60
Cobra	oz	1.50	Resource	oz	2.07
Command 3ME	pt	17.50	RiceBeaux	pt	6.91
Corvus	oz	5.53	Riceshot	pt	4.68
Cotoran	pt	5.24	Ricestar HT	pt	26.01
Cotton Pro	pt	3.45	Ringside	pt	5.63
Dicamba	pt	5.32	Roundup Power Max	oz	0.28
Direx	pt	5.46	Roundup PowerMax	pt	4.50
Diuron	pt	4.25	Roundup PowerMax ii	oz	0.31
Dual II Magnum	pt	13.25	Roundup Pro	pt	0.20
Dual Magnum	pt	10.75	Scepter 70 DG	oz	4.64
Duet	pt	6.09	Select Max	pt	15.01
Engenia	oz	0.80	Sencor/Tricor.Metrib	lb	23.95
Enlist Duo	pt	5.92	Sequence	pt	7.14
Enlist One	pt	7.66	Sharpen	oz	7.91
Envive	oz	3.90	Sinister	pt	13.77
Envoke	oz	115.00	Sonic	oz	4.58
Facet L	pt	17.50	Stalwart	pt	6.39
Fierce	oz	7.75	Stam 80 EDF	lb	9.45
Fierce XLT	oz	4.47	Stam M4	qt	8.00
Finesse	oz	15.75	Staple LX	oz	3.95
Firestorm	pt	3.44	Storm	pt	17.07
First Rate	oz	34.50	Strada	oz	7.34
Flexstar	pt	9.75	Strada Pro	oz	8.20
Flexstar GT	pt	7.25	Strada XT2	oz	3.26
Fusilade DX	oz	1.33	Superwham	qt	9.82
Gambit	oz	16.50	Suprend	lb	13.52
Glyphosate 3lbs a.e	pt	4.03	SureStart II	oz	0.39
Glyphosate 3lbs a.e	oz	0.25	Surveil	oz	6.70
Goal 2XL	pt	10.75	Synchrony XP	oz	13.00
Gramoxone SL 2.0	oz	0.33	Tavium	gal	57.02
Grandstand R	pt	18.68	Tempest	pt	19.50
Grasp	oz	3.17	Touchdown Total	qt	10.21
Grasp Xtra	oz	1.61	Treflan	pt	4.36
Halex GT	pt	9.63			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	4.36	Mustang Max	oz	1.18
Triflurex	pt	3.47	Nuprid 4F	oz	1.04
Ultra Blazer	pt	7.50	Oberon	oz	3.28
Valor EZ	oz	5.23	Orthene 97	lb	29.33
Valor SX	oz	3.06	Permethrin	oz	0.79
Valor XLT	oz	3.59	Portal XLO	oz	0.74
Vamos	pt	6.49	Pounce 25WP	lb	19.96
Verdict	oz	1.61	Prevathon	oz	1.05
Veritas	pt	7.49	Python WDG	oz	19.25
Villain	pt	5.24	Radiant	oz	9.60
Volunteer	pt	10.63	Sevin SL	pt	12.25
Warrant	pt	4.00	Sevin XLR Plus	qt	21.50
XtendiMax	oz	0.48	Sivanto Prime	oz	3.01
Zidua SC	oz	5.58	Tempest	oz	1.70
Zidua WG	oz	8.76	Tenchu SG	oz	1.13
INOCULANT			Transform WG	oz	9.34
Inoculant -Soybean	acre	1.55	Up-Cyde	oz	0.49
Optimize LIFT	oz	0.15	Warrior ZT	oz	3.02
INSECTICIDES			Zeal	oz	8.42
Abamectin .15EC	oz	0.30	IRRIGATION SUPPLIES		
Acephate 90%	lb	8.25	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	8.25	SEED/PLANTS		
Admire Pro	oz	2.56	Corn Seed BtRR	thous	3.61
Agri-Mek	oz	3.44	Corn Seed Conv.	thous	3.80
Asana .66 XL	oz	0.62	Corn Seed Op Leptra	thous	4.95
Avenger	oz	0.28	Corn Seed RR2	thous	4.26
Baythroid XL	oz	1.32	Corn Seed VT2P	thous	4.80
Belt	oz	6.41	Cot. Seed B3XF/W3FE	thous	2.52
Besiege	oz	2.75	Cotton Seed B3XF	thous	2.60
Bidrin 8EC	oz	1.51	Cotton Seed GLB2	thous	1.89
Bifenthrin	oz	0.56	Cotton Seed W3FE	thous	2.43
Bifenture 2EC	oz	0.58	Cotton Seed W3RF	thous	1.50
Brigade EC	pt	20.27	Peanut Seed	lb	0.87
Capture LFR	oz	1.37	Rice Conv Hyb Trt	lb	6.31
Centric 40WG	oz	5.95	Rice Fullpage Hyb Tr	lb	6.34
Cypermethrin	oz	0.57	Rice Seed CF(Levees)	lb	1.30
Declare	oz	2.03	Rice Seed Clearfield	lb	1.30
Diamond .83EC	oz	1.26	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	13.50	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	1.63	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	1.76	Rice Seed FPH(Levee)	lb	6.34
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.40
Hero	oz	1.35	Rice Seed Trt/Insect	lbseed	0.29
Imidacloprid 4F	oz	0.79	Sorghum Concept	lb	2.84
Imidan 70 WSB	oz	1.13	Sorghum Concept+ Po	lb	4.16
IncidentalPestTrt $8	acre	8.00	Soybean Enlist E3	lb	1.07
IncidentalPestTrt$15	acre	15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt$22	acre	22.00	Soybean Seed RR2	lb	1.12
IncidentalPestTrt$30	acre	30.00	Soybean Seed RR2X	lb	1.15
Intrepid 2F	oz	1.99	Wheat Seed Private	lb	0.34
Intruder 70WSP	oz	1.13	SOIL TEST		
Lambda	oz	0.39	Soil Test	acre	10.00
Lannate LV	pt	8.33	SURVEY & MARK LEVEES		
Macho	oz	0.62	Survey & Mark Levees	acre	4.50
Malathion 8E	pt	9.84	Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2024

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	3.44
Gasoline	gal	3.21
INTEREST RATES		
Short-term	%	8.25
Intermediate-term	%	8.50

Appendix Table 6. Labor types, wage rates and unallocated labor Multipliers for crop enterprises, Mississippi, 2024

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	17.94
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, 2024

Crop	unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '24	5.17	-0.06	5.11	2.35	5.11
Cotton Lint	lb	Dec '24	0.8151	-0.0123	0.8028	0.52	0.8028
Cottonseed	lb						0.11[f]
Grain Sorghum	bu				4.85	4.09	4.85
Peanuts	ton				550.00	354.89	550.00
Soybeans	bu	Nov '24	12.61	0.06	12.67	6.41	12.67
Rice	bu	Nov '24	5.83	-0.17	5.66	3.21	5.66
Wheat	bu	Jul '24	6.32	-0.15	6.17	3.60	6.17

[a] Average of the daily closing futures contract prices during the first 5 trading days in October 2023 for the stated contract months.

[b] Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2023 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

[d] Average Mississippi County CCC Loan Rate for 2023 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2023 Farm-stored Loan Rate for long grain rough rice. National 2023 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

[e] Price used in MSU Extension Service Planning Budgets.

[f] Cottonseed price is the average marketing year price over the years 2008-2021.

Appendix Table 8 Estimated costs for field operations, per acre
Cotton irrigated with roll-out pipe
160-acre roll-out pipe system, 10.5 ac-in., Delta Area, Mississippi, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Land Plane	50'x16'		1.66	0.36	0.63		0.01	2.66	2.11	4.77
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.37	0.08	0.16		0.02	0.63	0.44	1.07
Roll-Out Pipe	ft	7.92					0.21	8.13		8.13
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.49	0.12	0.44		0.03	1.08	1.10	2.18
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.74	0.18	0.65		0.02	1.59	1.65	3.24
Land Forming ($450)	each								38.27	38.27
Well & Pump, Furrow	each			2.96			0.08	3.04	10.47	13.51
Main Line Pipe	each								5.79	5.79
Engine, RPF, 75	each								10.48	10.48
June Irrigation	ac-in		12.77	1.40			0.38	14.55		14.55
July Irrigation	ac-in		12.77	1.40			0.30	14.47		14.47
August Irrigation	ac-in		12.77	1.40			0.23	14.40		14.40
TOTALS		7.92	41.57	7.90	4.61	0.00	1.35	63.35	70.31	133.66

Note: Cost of production estimates are based on 2022 input prices..

Appendix Table 9 Estimated costs for field operations, per acre
Cotton irrigated with center pivot
135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Maintenance										
IRRIGATE LABOR	hour				1.07		0.04	1.11		1.11
Apply Water										
IRRIGATE LABOR	hour				0.15		0.01	0.16		0.16
Apply Water										
IRRIGATE LABOR	hour				0.20		0.01	0.21		0.21
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Pivot, 1/4 CP	each			13.48			0.46	13.94	71.23	85.17
Well & Pump, 1/4 CP	each			3.50			0.12	3.62	14.26	17.88
Engine, 1/4 CP, 65	each								14.01	14.01
June Irr. 3app@.75"	ac-in		11.56	1.49			0.45	13.50		13.50
July Irr. 4app@.75"	ac-in		15.41	1.99			0.48	17.88		17.88
Aug Irr. 3app@.75"	ac-in		11.56	1.49			0.27	13.32		13.32
TOTALS		0.00	38.53	21.95	1.84	0.00	1.85	64.17	99.50	163.67

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 10. Estimated costs for field operations, per acre
Full-season soybeans irrigated with roll-out pipe
160-acre system, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	DIRECT COST LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Land Plane	50'x16'		1.28	0.39	0.68		0.19	2.54	2.59	5.13
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17		0.01	0.55	0.51	1.06
Roll-Out Pipe	ft	7.92					0.22	8.14		8.14
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.56	0.19	0.68		0.01	1.44	1.89	3.33
Land Forming ($450)	each								43.97	43.97
Well & Pump, Furrow	each			2.96			0.08	3.04	12.03	15.07
Main Line Pipe	each								6.65	6.65
Engine, RPF, ESB	each								11.82	11.82
1st June Irrigation	ac-in		8.41	1.40			0.27	10.08		10.08
2nd June Irrigation	ac-in		8.41	1.40			0.27	10.08		10.08
July Irrigation	ac-in		8.41	1.40			0.20	10.01		10.01
TOTALS		7.92	27.73	7.96	4.71	0.00	1.36	49.68	80.72	130.40

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 11 Estimated costs for field operations, per acre
Irrigation with a contour flood system
80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.48	0.13	0.29		0.03	0.93	0.96	1.89
Survey & Mark Levees	acre	2.25					0.08	2.33		2.33
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.04	1.23	1.28	2.51
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.04	1.15	0.99	2.14
IRRIGATE LABOR	hour				0.68		0.02	0.70		0.70
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.50	0.13	0.30		0.03	0.96	1.01	1.97
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.03	1.22	1.28	2.50
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.03	1.14	0.99	2.13
IRRIGATE LABOR	hour				0.68		0.02	0.70		0.70
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.50	0.13	0.30		0.03	0.96	1.01	1.97
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.02	1.21	1.28	2.49
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.02	1.13	0.99	2.12
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.50	0.13	0.30		0.02	0.95	1.01	1.96
Tear Down Levees										
Levee Splitter (1/80	32"		0.38	0.10	0.22		0.01	0.71	0.76	1.47
Land Forming ($113)	each								11.04	11.04
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, CF, 75	each								23.64	23.64
June Irrigation	ac-in		12.61	2.80			0.53	15.94		15.94
July Irrigation	ac-in		12.61	2.80			0.42	15.83		15.83
August Irrigation	ac-in		12.61	2.80			0.32	15.73		15.73
TOTALS		2.25	43.91	15.89	6.45	0.00	1.92	70.42	70.30	140.72

Note: Cost of production estimates are based on 2023 input prices.
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Appendix Table 12 Estimated costs for field operations, per acre
Irrigation with a 1/2-mile center pivot system
530-acre system, 7.5 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.07			0.07		0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Pivot, 1/2 CP	each			8.60			0.30	8.90	45.46	54.36
Well & Pump, 1/2 CP	each			1.13			0.04	1.17	4.61	5.78
Engine, 1/2 CP, 174	each								6.38	6.38
June Irr. 3app@.75"	ac-in		16.93	0.68			0.61	18.22		18.22
July Irr. 4app@.75"	ac-in		22.57	0.91			0.65	24.13		24.13
Aug Irr. 3app@.75"	ac-in		16.93	0.68			0.36	17.97		17.97
TOTALS		0.00	56.43	12.00	0.47	0.00	1.97	70.87	56.45	127.32

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 13 Estimated costs for field operations, per acre
Corn irrigated with roll-out pipe
160-acre system, 13 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Land Plane	50'x16'		1.28	0.39	0.68		0.19	2.54	2.59	5.13
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17		0.01	0.55	0.51	1.06
Roll-Out Pipe	ft	7.92					0.22	8.14		8.14
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.56	0.19	0.68		0.02	1.45	1.89	3.34
Land Forming ($450)	each								43.97	43.97
Well & Pump, Furrow	each			2.96			0.08	3.04	12.03	15.07
Main Line Pipe	each								6.65	6.65
Engine, RPF, Corn	each								11.82	11.82
1st June Irrigation	ac-in		9.11	1.05			0.28	10.44		10.44
2nd June Irrigation	ac-in		9.11	1.05			0.28	10.44		10.44
3rd June Irrigation	ac-in		9.11	1.05			0.28	10.44		10.44
1st July Irrigation	ac-in		9.11	1.05			0.21	10.37		10.37
TOTALS		7.92	38.94	7.96	4.94	0.00	1.69	61.45	80.72	142.17

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 14 Estimated costs for field operations, per acre
Contour levee rice flood irrigation system
80-acre system, 33 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.48	0.13	0.29		0.04	0.94	0.96	1.90
Survey & Mark Levees	acre	4.50					0.19	4.69		4.69
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.29	0.34	0.77		0.10	2.50	2.55	5.05
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.05	1.16	0.99	2.15
IRRIGATE LABOR	hour				0.68		0.03	0.71		0.71
Install Gates										
IRRIGATE LABOR	hour				2.72		0.11	2.83		2.83
Apply Water										
IRRIGATE LABOR	hour				6.80		0.28	7.08		7.08
Apply Water										
IRRIGATE LABOR	hour				6.80		0.23	7.03		7.03
Apply Water										
IRRIGATE LABOR	hour				6.80		0.19	6.99		6.99
Apply Water										
IRRIGATE LABOR	hour				6.80		0.14	6.94		6.94
Remove Gates										
IRRIGATE LABOR	hour				0.91		0.01	0.92		0.92
Tear Down Levees										
Levee Splitter (1/80	32"		1.00	0.27	0.60		0.03	1.90	2.03	3.93
Tear Down Levees										
Levee Splitter (1/80	32"		0.38	0.10	0.22		0.01	0.71	0.76	1.47
Land Forming ($113)	each								11.04	11.04
Levee Gates	each								0.70	0.70
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, Rice CL, 75	each								23.64	23.64
May Irrigation	ac-in		16.81	1.53			0.76	19.10		19.10
June Irrigation	ac-in		25.22	2.29			0.95	28.46		28.46
July Irrigation	ac-in		25.22	2.29			0.76	28.27		28.27
August Irrigation	ac-in		25.22	2.29			0.57	28.08		28.08
TOTALS		4.50	96.22	15.30	34.20	0.00	4.67	154.89	66.73	221.62

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 15 Estimated costs for field operations, per acre
Straight levee rice flood irrigation system
80-acre system, 27 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Survey & Mark Levees	acre	2.25					0.09	2.34		2.34
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.97	0.25	0.58		0.07	1.87	1.92	3.79
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.05	1.16	0.99	2.15
IRRIGATE LABOR	hour				0.68		0.03	0.71		0.71
Install Gates										
IRRIGATE LABOR	hour				1.36		0.06	1.42		1.42
Apply Water										
IRRIGATE LABOR	hour				4.53		0.19	4.72		4.72
Apply Water										
IRRIGATE LABOR	hour				4.53		0.16	4.69		4.69
Apply Water										
IRRIGATE LABOR	hour				4.53		0.12	4.65		4.65
Apply Water										
IRRIGATE LABOR	hour				4.53		0.09	4.62		4.62
Remove Gates										
IRRIGATE LABOR	hour				0.91		0.01	0.92		0.92
Tear Down Levees										
Levee Splitter (1/80	32"		0.75	0.21	0.45		0.02	1.43	1.51	2.94
Land Forming ($450)	each								43.97	43.97
Levee Gates	each								0.70	0.70
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, Rice SL, 75	each								23.64	23.64
May Irrigation	ac-in		16.81	1.86			0.77	19.44		19.44
June Irrigation	ac-in		19.62	2.18			0.75	22.55		22.55
July Irrigation	ac-in		19.62	2.18			0.60	22.40		22.40
August Irrigation	ac-in		19.62	2.18			0.45	22.25		22.25
TOTALS		2.25	77.99	14.92	22.91	0.00	3.68	121.75	96.79	218.54

Note: Cost of production estimates are based on 2023 input prices.
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Appendix Table 16 Estimated costs for field operations, per acre
Straight levee rice multi inlet flood irrigation system
80-acre system, 23 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Survey & Mark Levees	acre	2.25					0.09	2.34		2.34
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.97	0.25	0.58		0.07	1.87	1.92	3.79
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.05	1.16	0.99	2.15
IRRIGATE LABOR	hour				0.68		0.03	0.71		0.71
Ditcher (1m/160a)			0.28	0.09	0.17		0.02	0.56	0.51	1.07
Roll-Out Pipe	ft	7.92					0.33	8.25		8.25
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.04	1.00	1.26	2.26
Install Gates										
IRRIGATE LABOR	hour				1.36		0.06	1.42		1.42
Apply Water										
IRRIGATE LABOR	hour				1.81		0.07	1.88		1.88
Apply Water										
IRRIGATE LABOR	hour				1.81		0.06	1.87		1.87
Apply Water										
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				1.81		0.04	1.85		1.85
Remove Gates										
IRRIGATE LABOR	hour				0.45		0.01	0.46		0.46
Tear Down Levees										
Levee Splitter (1/80	32"		0.75	0.21	0.45		0.02	1.43	1.51	2.94
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.19	0.06	0.22		0.01	0.48	0.63	1.11
Land Forming ($450)	each								43.97	43.97
Levee Gates	each								0.35	0.35
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, Mult In Rice	each								23.64	23.64
May Irrigation	ac-in		14.01	1.75			0.65	16.41		16.41
June Irrigation	ac-in		16.81	2.10			0.65	19.56		19.56
July Irrigation	ac-in		16.81	2.10			0.52	19.43		19.43
August Irrigation	ac-in		16.81	2.10			0.39	19.30		19.30
TOTALS		10.17	67.61	14.85	12.41	0.00	3.38	108.42	98.84	207.26

Note: Cost of production estimates are based on 2023 input prices.

Appendix Table 17 Estimated costs for field operations, per acre
Straight levee rice - zero grade flood irrigation
80-acre system, 19 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Apply Water										
IRRIGATE LABOR	hour				2.27		0.09	2.36		2.36
Apply Water										
IRRIGATE LABOR	hour				2.27		0.08	2.35		2.35
Apply Water										
IRRIGATE LABOR	hour				2.27		0.06	2.33		2.33
Apply Water										
IRRIGATE LABOR	hour				2.27		0.05	2.32		2.32
Land Forming ($450)	each								43.97	43.97
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, Rice SL, 75	each								23.64	23.64
May Irrigation	ac-in		11.21	1.24			0.51	12.96		12.96
June Irrigation	ac-in		14.01	1.55			0.53	16.09		16.09
July Irrigation	ac-in		14.01	1.55			0.43	15.99		15.99
August Irrigation	ac-in		14.01	1.55			0.32	15.88		15.88
TOTALS		0.00	53.24	11.80	9.53	0.00	2.29	76.86	91.67	168.53

Note: Cost of production estimates are based on 2023 input prices.
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Appendix Table 18 Estimated costs for field operations, per acre
Peanuts irrigated with roll-out pipe
160-acre system, 12 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Land Plane	50'x16'		1.28	0.39	0.68		0.19	2.54	2.59	5.13
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17		0.02	0.56	0.51	1.07
Roll-Out Pipe	ft	7.92					0.27	8.19		8.19
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81		0.06	1.87		1.87
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.56	0.19	0.68		0.02	1.45	1.89	3.34
Land Forming ($450)	each								43.97	43.97
Well & Pump, Furrow	each			2.96			0.10	3.06	12.03	15.09
Main Line Pipe	each								6.65	6.65
Engine, RPF, PNUT	each								11.82	11.82
1st July Irrigation	ac-in		8.41	1.05			0.26	9.72		9.72
1st Aug Irrigation	ac-in		8.41	1.05			0.20	9.66		9.66
2nd Aug Irrigation	ac-in		8.41	1.05			0.20	9.66		9.66
1st Sep Irrigation	ac-in		8.41	1.05			0.13	9.59		9.59
TOTALS		7.92	36.14	7.96	4.94	0.00	1.50	58.46	80.72	139.18

Note: Cost of production estimates are based on 2023 input prices.

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