

**RICE
2024
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2023-04**

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.

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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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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:

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 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, 9, 10, and 11.

Net Returns

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

Enterprise Budgets

Table 1.A Estimated costs per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., 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 1.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 1.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 1.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-----								FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL				
-----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 1.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.

Soil test cost is prorated for a test every 3rd year.

* Lease costs are based on hourly usage costs

Table 1.F Estimated returns for various price/yield combinations, per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., 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 -769	-579 -746	-557 -724	-534 -701	-511 -678	-489 -656	-466 -633	-444 -610	-421 -588	-398 -565	-376 -543
60	96.00	bu	-546 -713	-519 -686	-492 -659	-465 -632	-438 -605	-410 -577	-383 -550	-356 -523	-329 -496	-302 -469	-275 -442
70	112.00	bu	-491 -657	-459 -626	-427 -594	-395 -562	-364 -531	-332 -499	-300 -467	-269 -436	-237 -404	-205 -372	-174 -340
80	128.00	bu	-435 -602	-399 -565	-362 -529	-326 -493	-290 -457	-254 -421	-217 -384	-181 -348	-145 -312	-109 -276	-73 -239
90	144.00	bu	-379 -546	-338 -505	-298 -464	-257 -424	-216 -383	-175 -342	-135 -301	-94 -261	-53 -220	-12 -179	27 -138
100	160.00	bu	-323 -490	-278 -445	-233 -400	-187 -354	-142 -309	-97 -264	-52 -219	-6 -173	38 -128	83 -83	129 -37
110	176.00	bu	-268 -434	-218 -385	-168 -335	-118 -285	-68 -235	-18 -185	30 -136	80 -86	130 -36	180 13	230 63
120	192.00	bu	-212 -379	-157 -324	-103 -270	-49 -216	5 -161	59 -107	113 -53	168 1	222 55	276 109	331 164
130	208.00	bu	-156 -323	-97 -264	-38 -205	20 -146	78 -87	137 -29	196 29	255 88	314 147	373 206	432 265
140	224.00	bu	-100 -267	-37 -204	26 -140	89 -77	152 -14	216 49	279 112	342 176	406 239	469 302	533 366
150	240.00	bu	-44 -211	22 -143	90 -76	158 -8	226 59	294 127	362 195	430 263	498 331	566 399	634 467

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

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 3.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 3.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 3.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 3.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-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----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 3.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 3.F Estimated returns for various price/yield combinations, per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 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	-546 -740	-524 -717	-501 -695	-478 -672	-456 -649	-433 -627	-410 -604	-388 -582	-365 -559	-343 -536	-320 -514
60	96.00	bu	-491 -684	-463 -657	-436 -630	-409 -603	-382 -576	-355 -548	-328 -521	-300 -494	-273 -467	-246 -440	-219 -413
70	112.00	bu	-435 -628	-403 -597	-371 -565	-340 -533	-308 -502	-276 -470	-245 -438	-213 -407	-181 -375	-150 -343	-118 -312
80	128.00	bu	-379 -573	-343 -537	-307 -500	-270 -464	-234 -428	-198 -392	-162 -355	-125 -319	-89 -283	-53 -247	-17 -211
90	144.00	bu	-323 -517	-283 -476	-242 -435	-201 -395	-160 -354	-120 -313	-79 -272	-38 -232	2 -191	42 -150	83 -109
100	160.00	bu	-268 -461	-222 -416	-177 -371	-132 -325	-86 -280	-41 -235	3 -190	48 -144	94 -99	139 -54	184 -8
110	176.00	bu	-212 -405	-162 -356	-112 -306	-62 -256	-13 -206	36 -156	86 -107	136 -57	186 -7	235 42	285 92
120	192.00	bu	-156 -350	-102 -295	-47 -241	6 -187	60 -132	115 -78	169 -24	223 30	278 84	332 138	386 193
130	208.00	bu	-100 -294	-41 -235	16 -176	75 -117	134 -59	193 -0	252 58	311 117	370 176	429 235	487 294
140	224.00	bu	-45 -238	18 -175	81 -111	145 -48	208 14	271 78	335 141	398 205	462 268	525 331	588 395
150	240.00	bu	10 -182	78 -115	146 -47	214 20	282 88	350 156	418 224	486 292	554 360	622 428	689 496

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

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 5.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 5.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 5.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 5.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	4.50	96.22	15.30	34.20			4.67	154.89	66.73
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 5.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 5.F Estimated returns for various price/yield combinations, per acre
 Conventional hybrid contour levee rice
 Flood irrigated, 33 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	-635 -797	-609 -771	-584 -746	-559 -720	-533 -695	-508 -669	-482 -644	-457 -618	-431 -593	-406 -567	-380 -542
60	108.00	bu	-572 -734	-542 -703	-511 -673	-481 -642	-450 -612	-419 -581	-389 -550	-358 -520	-328 -489	-297 -459	-267 -428
70	126.00	bu	-509 -671	-474 -635	-438 -600	-403 -564	-367 -528	-331 -493	-296 -457	-260 -421	-224 -386	-189 -350	-153 -315
80	144.00	bu	-447 -608	-406 -568	-365 -527	-325 -486	-284 -445	-243 -405	-202 -364	-162 -323	-121 -282	-80 -242	-39 -201
90	162.00	bu	-384 -546	-338 -500	-292 -454	-247 -408	-201 -362	-155 -316	-109 -271	-63 -225	-17 -179	28 -133	73 -87
100	180.00	bu	-321 -483	-270 -432	-219 -381	-169 -330	-118 -279	-67 -228	-16 -177	34 -126	85 -75	136 -24	187 25
110	198.00	bu	-259 -420	-203 -364	-147 -308	-90 -252	-34 -196	21 -140	77 -84	133 -28	189 27	245 83	301 139
120	216.00	bu	-196 -357	-135 -296	-74 -235	-12 -174	48 -113	109 -52	170 8	231 69	292 131	353 192	414 253
130	234.00	bu	-133 -295	-67 -229	-1 -162	65 -96	131 -30	197 35	263 102	329 168	396 234	462 300	528 366
140	252.00	bu	-70 -232	0 -161	71 -89	143 -18	214 52	285 124	356 195	428 266	499 338	570 409	642 480
150	270.00	bu	-8 -169	68 -93	144 -16	221 59	297 135	373 212	450 288	526 365	603 441	679 517	755 594

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

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 7.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 7.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 7.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 7.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	10.17	67.61	14.85	12.41			3.38	108.42	98.84
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 7.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 7.F Estimated returns for various price/yield combinations, per acre
 Conventional hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2024

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

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 8.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 8.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 8.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 8.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre		53.24	11.80	9.53			2.29	76.86	91.67
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 8.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 8.F Estimated returns for various price/yield combinations, per acre
 Conventional hybrid 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
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 -743	-531 -718	-506 -693	-481 -667	-455 -642	-430 -616	-404 -591	-379 -565	-353 -540	-328 -514	-302 -489
60	108.00	bu	-494 -681	-464 -650	-433 -620	-402 -589	-372 -558	-341 -528	-311 -497	-280 -467	-250 -436	-219 -406	-189 -375
70	126.00	bu	-431 -618	-396 -582	-360 -547	-324 -511	-289 -475	-253 -440	-218 -404	-182 -368	-146 -333	-111 -297	-75 -261
80	144.00	bu	-369 -555	-328 -515	-287 -474	-246 -433	-206 -392	-165 -352	-124 -311	-83 -270	-43 -229	-2 -189	38 -148
90	162.00	bu	-306 -493	-260 -447	-214 -401	-168 -355	-123 -309	-77 -263	-31 -217	14 -172	60 -126	106 -80	151 -34
100	180.00	bu	-243 -430	-192 -379	-141 -328	-90 -277	-40 -226	10 -175	61 -124	112 -73	163 -22	214 28	265 79
110	198.00	bu	-181 -367	-125 -311	-68 -255	-12 -199	43 -143	99 -87	155 -31	211 24	267 80	323 136	379 192
120	216.00	bu	-118 -304	-57 -243	3 -182	65 -121	126 -60	187 0	248 61	309 123	370 184	431 245	492 306
130	234.00	bu	-55 -242	10 -175	76 -109	143 -43	209 22	275 88	341 155	407 221	474 287	540 353	606 420
140	252.00	bu	7 -179	78 -108	149 -36	221 34	292 105	363 177	435 248	506 319	577 391	648 462	720 533
150	270.00	bu	69 -116	146 -40	222 36	299 112	375 188	451 265	528 341	604 418	681 494	757 570	833 647

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 9.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 9.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 9.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 9.D Estimated costs for field operations, per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.27	3.60	3.60
Field Cultivate Fld	32'		4.96	2.47	3.18			0.88	11.49	15.62
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	4.50	96.22	15.30	34.20			4.67	154.89	66.73
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 9.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 9.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 -858	-669 -836	-646 -813	-623 -790	-601 -768	-578 -745	-555 -722	-533 -700	-510 -677	-487 -655	-465 -632
60	96.00	bu	-635 -803	-608 -775	-581 -748	-554 -721	-527 -694	-500 -667	-472 -640	-445 -612	-418 -585	-391 -558	-364 -531
70	112.00	bu	-580 -747	-548 -715	-516 -683	-485 -652	-453 -620	-421 -588	-390 -557	-358 -525	-326 -493	-294 -462	-263 -430
80	128.00	bu	-524 -691	-488 -655	-452 -619	-415 -582	-379 -546	-343 -510	-307 -474	-270 -437	-234 -401	-198 -365	-162 -329
90	144.00	bu	-468 -635	-427 -595	-387 -554	-346 -513	-305 -472	-264 -431	-224 -391	-183 -350	-142 -309	-101 -268	-61 -228
100	160.00	bu	-412 -580	-367 -534	-322 -489	-277 -444	-231 -398	-186 -353	-141 -308	-95 -263	-50 -217	-5 -172	39 -127
110	176.00	bu	-357 -524	-307 -474	-257 -424	-207 -374	-157 -325	-108 -275	-58 -225	-8 -175	41 -125	91 -75	140 -26
120	192.00	bu	-301 -468	-247 -414	-192 -359	-138 -305	-84 -251	-29 -196	24 -142	78 -88	133 -33	187 20	241 74
130	208.00	bu	-245 -412	-186 -353	-127 -295	-69 -236	-10 -177	48 -118	107 -59	166 -0	225 58	284 117	342 175
140	224.00	bu	-189 -356	-126 -293	-63 -230	0 -166	63 -103	127 -40	190 23	253 86	317 150	380 213	443 276
150	240.00	bu	-134 -301	-66 -233	1 -165	69 -97	137 -29	205 38	273 106	341 174	409 242	477 310	545 377

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 10.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 10.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 10.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 10.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	2.25	77.99	14.92	22.91			3.68	121.75	96.79
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 10.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 10.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2024

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

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 11.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 11.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 11.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 11.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	10.17	67.61	14.85	12.41			3.38	108.42	98.84
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 11.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 11.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 -828	-611 -805	-589 -783	-566 -760	-544 -737	-521 -715	-498 -692	-476 -669	-453 -647	-430 -624	-408 -601
60	96.00	bu	-578 -772	-551 -745	-524 -718	-497 -691	-470 -663	-442 -636	-415 -609	-388 -582	-361 -555	-334 -528	-307 -500
70	112.00	bu	-523 -716	-491 -685	-459 -653	-427 -621	-396 -589	-364 -558	-332 -526	-301 -494	-269 -463	-237 -431	-206 -399
80	128.00	bu	-467 -661	-431 -624	-394 -588	-358 -552	-322 -516	-286 -479	-249 -443	-213 -407	-177 -371	-141 -335	-105 -298
90	144.00	bu	-411 -605	-370 -564	-330 -523	-289 -483	-248 -442	-207 -401	-167 -360	-126 -320	-85 -279	-44 -238	-4 -197
100	160.00	bu	-355 -549	-310 -504	-265 -458	-219 -413	-174 -368	-129 -323	-84 -277	-38 -232	6 -187	51 -141	96 -96
110	176.00	bu	-300 -493	-250 -443	-200 -394	-150 -344	-100 -294	-51 -244	-1 -194	48 -145	98 -95	148 -45	198 4
120	192.00	bu	-244 -438	-189 -383	-135 -329	-81 -274	-26 -220	27 -166	81 -111	136 -57	190 -3	244 51	299 105
130	208.00	bu	-188 -382	-129 -323	-70 -264	-11 -205	46 -146	105 -87	164 -29	223 29	282 88	341 147	400 206
140	224.00	bu	-132 -326	-69 -263	-6 -199	57 -136	120 -72	184 -9	247 53	310 117	374 180	437 244	501 307
150	240.00	bu	-77 -270	-9 -202	58 -134	126 -66	194 0	262 68	330 136	398 204	466 272	534 340	602 408

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 12.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 12.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 12.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 12.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre		53.24	11.80	9.53			2.29	76.86	91.67
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 12.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 12.F Estimated returns for various price/yield combinations, per acre
 Clearfield 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	80.00	bu	-603 -789	-580 -766	-557 -744	-535 -721	-512 -698	-489 -676	-467 -653	-444 -631	-421 -608	-399 -585	-376 -563
60	96.00	bu	-547 -733	-520 -706	-492 -679	-465 -652	-438 -625	-411 -597	-384 -570	-357 -543	-329 -516	-302 -489	-275 -462
70	112.00	bu	-491 -678	-459 -646	-428 -614	-396 -582	-364 -551	-333 -519	-301 -487	-269 -456	-237 -424	-206 -392	-174 -361
80	128.00	bu	-435 -622	-399 -586	-363 -549	-327 -513	-290 -477	-254 -441	-218 -404	-182 -368	-145 -332	-109 -296	-73 -260
90	144.00	bu	-380 -566	-339 -525	-298 -485	-257 -444	-216 -403	-176 -362	-135 -322	-94 -281	-53 -240	-13 -199	27 -159
100	160.00	bu	-324 -510	-278 -465	-233 -420	-188 -374	-143 -329	-97 -284	-52 -239	-7 -193	37 -148	83 -103	128 -57
110	176.00	bu	-268 -455	-218 -405	-168 -355	-119 -305	-69 -255	-19 -205	30 -156	80 -106	129 -56	179 -6	229 43
120	192.00	bu	-212 -399	-158 -344	-104 -290	-49 -236	4 -181	58 -127	113 -73	167 -18	221 35	276 89	330 144
130	208.00	bu	-156 -343	-98 -284	-39 -225	19 -166	78 -108	137 -49	196 9	255 68	313 127	372 186	431 245
140	224.00	bu	-101 -287	-37 -224	25 -160	88 -97	152 -34	215 29	279 92	342 155	405 219	469 282	532 346
150	240.00	bu	-45 -232	22 -164	90 -96	158 -28	226 39	294 107	362 175	429 243	497 311	565 379	633 447

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 13.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 13.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 13.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 13.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	4.50	96.22	15.30	34.20			4.67	154.89	66.73
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 13.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 13.F Estimated returns for various price/yield combinations, per acre
 Fullpage hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			PRODUCT PRICE										
			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 -872	-685 -847	-659 -821	-634 -796	-609 -770	-583 -745	-558 -719	-532 -694	-507 -668	-481 -643	-456 -617
60	108.00	bu	-648 -809	-617 -779	-587 -748	-556 -718	-525 -687	-495 -656	-464 -626	-434 -595	-403 -565	-373 -534	-342 -504
70	126.00	bu	-585 -747	-549 -711	-514 -675	-478 -640	-442 -604	-407 -568	-371 -533	-335 -497	-300 -461	-264 -426	-228 -390
80	144.00	bu	-522 -684	-482 -643	-441 -602	-400 -562	-359 -521	-318 -480	-278 -439	-237 -399	-196 -358	-155 -317	-115 -276
90	162.00	bu	-460 -621	-414 -575	-368 -529	-322 -484	-276 -438	-230 -392	-184 -346	-139 -300	-93 -254	-47 -209	-1 -163
100	180.00	bu	-397 -558	-346 -507	-295 -457	-244 -406	-193 -355	-142 -304	-91 -253	-40 -202	10 -151	61 -100	112 -49
110	198.00	bu	-334 -496	-278 -440	-222 -384	-166 -328	-110 -272	-54 -216	1 -159	57 -103	113 -47	169 8	225 64
120	216.00	bu	-271 -433	-210 -372	-149 -311	-88 -250	-27 -188	33 -127	94 -66	156 -5	217 55	278 116	339 177
130	234.00	bu	-209 -370	-142 -304	-76 -238	-10 -172	55 -105	121 -39	188 26	254 92	320 159	386 225	453 291
140	252.00	bu	-146 -308	-75 -236	-3 -165	67 -94	138 -22	210 48	281 119	352 191	424 262	495 333	566 405
150	270.00	bu	-83 -245	-7 -168	69 -92	145 -16	221 60	298 136	374 213	451 289	527 366	604 442	680 518

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 14.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 14.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 14.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 14.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	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----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 14.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 14.F Estimated returns for various price/yield combinations, per acre
 Fullpage 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	-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 15.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 15.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 15.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 15.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	10.17	67.61	14.85	12.41			3.38	108.42	98.84
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 15.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 15.F Estimated returns for various price/yield combinations, per acre
 Fullpage hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
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 -845	-625 -819	-600 -794	-575 -768	-549 -743	-524 -717	-498 -692	-473 -666	-447 -641	-422 -615	-396 -590
60	108.00	bu	-588 -782	-558 -751	-527 -721	-497 -690	-466 -660	-435 -629	-405 -599	-374 -568	-344 -537	-313 -507	-283 -476
70	126.00	bu	-526 -719	-490 -684	-454 -648	-419 -612	-383 -577	-347 -541	-312 -505	-276 -470	-240 -434	-205 -398	-169 -363
80	144.00	bu	-463 -656	-422 -616	-381 -575	-341 -534	-300 -493	-259 -453	-218 -412	-178 -371	-137 -330	-96 -290	-55 -249
90	162.00	bu	-400 -594	-354 -548	-308 -502	-263 -456	-217 -410	-171 -365	-125 -319	-79 -273	-33 -227	12 -181	57 -135
100	180.00	bu	-337 -531	-286 -480	-235 -429	-185 -378	-134 -327	-83 -276	-32 -225	18 -174	69 -124	120 -73	171 -22
110	198.00	bu	-275 -468	-219 -412	-163 -356	-107 -300	-50 -244	5 -188	61 -132	117 -76	173 -20	229 35	285 91
120	216.00	bu	-212 -406	-151 -344	-90 -283	-29 -222	32 -161	93 -100	154 -39	215 21	276 82	337 144	398 205
130	234.00	bu	-149 -343	-83 -277	-17 -210	48 -144	115 -78	181 -12	247 53	313 120	380 186	446 252	512 318
140	252.00	bu	-86 -280	-15 -209	55 -138	127 -66	198 4	269 75	340 147	412 218	483 289	554 361	626 432
150	270.00	bu	-24 -217	52 -141	128 -65	205 11	281 87	357 164	434 240	510 316	587 393	663 469	739 546

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 16.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 16.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 16.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 16.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre		53.24	11.80	9.53			2.29	76.86	91.67
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 16.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 16.F Estimated returns for various price/yield combinations, per acre
 Fullpage hybrid 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
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 -806	-594 -780	-568 -755	-543 -730	-518 -704	-492 -679	-467 -653	-441 -628	-416 -602	-390 -577	-365 -551
60	108.00	bu	-557 -743	-526 -713	-496 -682	-465 -652	-434 -621	-404 -590	-373 -560	-343 -529	-312 -499	-282 -468	-251 -438
70	126.00	bu	-494 -680	-458 -645	-423 -609	-387 -574	-351 -538	-316 -502	-280 -467	-244 -431	-209 -395	-173 -360	-137 -324
80	144.00	bu	-431 -618	-390 -577	-350 -536	-309 -496	-268 -455	-227 -414	-187 -373	-146 -332	-105 -292	-64 -251	-24 -210
90	162.00	bu	-369 -555	-323 -509	-277 -463	-231 -417	-185 -372	-139 -326	-93 -280	-48 -234	-2 -188	43 -142	89 -97
100	180.00	bu	-306 -492	-255 -441	-204 -390	-153 -339	-102 -289	-51 -238	-0 -187	50 -136	101 -85	152 -34	203 16
110	198.00	bu	-243 -430	-187 -374	-131 -318	-75 -261	-19 -205	36 -149	92 -93	148 -37	204 18	260 74	316 130
120	216.00	bu	-180 -367	-119 -306	-58 -245	2 -183	63 -122	124 -61	185 -0	247 60	308 121	369 182	430 243
130	234.00	bu	-118 -304	-51 -238	14 -172	80 -105	146 -39	213 26	279 92	345 158	411 225	477 291	544 357
140	252.00	bu	-55 -241	15 -170	87 -99	158 -27	229 43	301 114	372 185	443 257	515 328	586 399	657 471
150	270.00	bu	7 -179	83 -102	160 -26	236 50	312 126	389 202	465 279	542 355	618 432	695 508	771 584

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 17.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 17.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 17.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 17.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-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----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 17.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 17.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 -836	-647 -814	-625 -792	-603 -770	-581 -748	-559 -726	-537 -704	-515 -682	-493 -660	-471 -638	-449 -616
60	93.60	bu	-615 -782	-588 -755	-562 -729	-535 -703	-509 -676	-482 -650	-456 -623	-430 -597	-403 -570	-377 -544	-350 -517
70	109.20	bu	-561 -728	-530 -697	-499 -666	-468 -635	-437 -604	-406 -573	-375 -542	-344 -511	-313 -480	-282 -449	-252 -419
80	124.80	bu	-506 -673	-471 -638	-436 -603	-400 -567	-365 -532	-330 -497	-294 -461	-259 -426	-224 -391	-188 -355	-153 -320
90	140.40	bu	-452 -619	-412 -579	-372 -539	-333 -500	-293 -460	-253 -420	-213 -380	-174 -341	-134 -301	-94 -261	-55 -222
100	156.00	bu	-397 -565	-353 -520	-309 -476	-265 -432	-221 -388	-177 -344	-133 -300	-88 -255	-44 -211	-0 -167	43 -123
110	171.60	bu	-343 -510	-295 -462	-246 -413	-197 -364	-149 -316	-100 -267	-52 -219	-3 -170	44 -122	93 -73	142 -25
120	187.20	bu	-289 -456	-236 -403	-183 -350	-130 -297	-77 -244	-24 -191	28 -138	81 -85	134 -32	187 20	240 73
130	202.80	bu	-234 -401	-177 -344	-120 -287	-62 -229	-5 -172	52 -114	109 -57	166 -0	224 57	281 114	339 171
140	218.40	bu	-180 -347	-118 -285	-56 -223	4 -162	66 -100	128 -38	190 23	252 85	313 146	375 208	437 270
150	234.00	bu	-126 -293	-59 -227	6 -160	72 -94	138 -28	204 37	271 104	337 170	403 236	469 302	536 368

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 18.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 18.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 18.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 18.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	2.25	77.99	14.92	22.91			3.68	121.75	96.79
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 18.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 18.F Estimated returns for various price/yield combinations, per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
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 -817	-603 -795	-581 -773	-559 -751	-537 -729	-515 -707	-493 -685	-471 -663	-449 -641	-427 -618	-405 -596
60	93.60	bu	-571 -763	-545 -736	-518 -710	-492 -683	-465 -657	-439 -630	-412 -604	-386 -577	-359 -551	-333 -524	-306 -498
70	109.20	bu	-517 -708	-486 -677	-455 -647	-424 -616	-393 -585	-362 -554	-331 -523	-300 -492	-270 -461	-239 -430	-208 -399
80	124.80	bu	-462 -654	-427 -619	-392 -583	-356 -548	-321 -513	-286 -477	-250 -442	-215 -407	-180 -371	-145 -336	-109 -301
90	140.40	bu	-408 -600	-368 -560	-329 -520	-289 -480	-249 -441	-209 -401	-170 -361	-130 -322	-90 -282	-50 -242	-11 -202
100	156.00	bu	-354 -545	-310 -501	-265 -457	-221 -413	-177 -369	-133 -325	-89 -280	-45 -236	-0 -192	43 -148	87 -104
110	171.60	bu	-299 -491	-251 -442	-202 -394	-154 -345	-105 -297	-56 -248	-8 -200	40 -151	88 -102	137 -54	185 -5
120	187.20	bu	-245 -437	-192 -384	-139 -331	-86 -278	-33 -225	19 -172	72 -119	125 -66	178 -13	231 39	284 92
130	202.80	bu	-191 -382	-133 -325	-76 -267	-18 -210	38 -153	95 -95	153 -38	210 19	268 76	325 133	382 191
140	218.40	bu	-136 -328	-74 -266	-13 -204	48 -142	110 -81	172 -19	234 42	295 104	357 166	419 227	481 289
150	234.00	bu	-82 -274	-16 -207	50 -141	116 -75	182 -9	248 57	314 123	381 189	447 255	513 321	579 388

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 19.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 19.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 19.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 19.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre	10.17	67.61	14.85	12.41			3.38	108.42	98.84
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 19.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 19.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 20.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 20.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 20.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 20.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-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----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
Harrow - Folding	40'		2.06	0.72	1.33			0.34	4.45	3.90
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
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
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
Grain Cart Rice	700 bu		0.58	0.28	0.38			0.02	1.26	1.31
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
Flood Irr.	acre		53.24	11.80	9.53			2.29	76.86	91.67
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 20.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 20.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.

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---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			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---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			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	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total	
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	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---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			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 Ptl&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	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total	
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	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	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Avaris	oz	1.41
Agri-Dex	pt	3.00	Avicta 500 Soybean	oz	2.14
AMS SuperMax	pt	3.81	Bravo Weather Stick	pt	5.62
Class Act NG	pt	5.00	Captan 4L	pt	4.50
Crop Oil Conc. (Pet.)	pt	2.86	Convoy	oz	1.44
Crop Oil Conc. (Veg.)	pt	2.90	Cotton Seed Trt.	acre	20.00
Dyne-A-Pak	pt	6.88	CruiserMaxx Vibrance	oz	7.63
Fire-Zone	pt	3.94	Elatus	oz	3.81
Herbimax	pt	2.75	Flint Extra	oz	10.11
Induce	pt	5.00	Headline EC	oz	5.98
MSO	pt	1.34	Miravis Ace	oz	1.78
Penetrator Plus	pt	2.32	Miravis Top	oz	6.09
Surfactant	pt	3.30	Priaxor Xemium	oz	4.06
CLEANING			Propimax EC	pt	12.50
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.89
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.52
Cotton Consultant	acre	8.00	Quadris	oz	6.25
Peanut Consultant	acre	9.25	Quadris Top	oz	3.00
Rice Consultant	acre	8.00	Quadris Top SBX	oz	3.13
Sorghum Consultant	acre	6.00	Quilt	pt	4.00
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	21.75
Wheat Consultant	acre	5.50	Stratego	pt	22.50
CUSTOM FERTILIZE			Stratego YLD	oz	2.65
App Fert by Air	cwt	8.00	Tilt 3.6 EC	oz	1.02
App Fert by Air (Mi)	appl	8.00	Tilt/ Bravo SE	oz	0.81
Custom Apply Fert	acre	7.50	Trivapro	oz	1.48
CUSTOM LIME			GINNING		
Lime (Spread)	ton	65.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	8.43	Mepichlor 4.2%	oz	0.17
CUSTOM SPRAY			Mepiquat	oz	0.07
App by Air (3 gal)	appl	6.87	Mepstar 6	oz	0.09
App by Air (5 gal)	appl	8.11	Palisade	oz	1.47
App by Air (10 gal)	appl	10.57	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSG	oz	1.36
DRYING			Stance	oz	1.40
Dry Corn	bu	0.19	Veto	oz	0.07
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.99
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.25
Eradication	acre	1.00	Defol 5	gal	8.61
FERTILIZERS			Display	oz	10.59
Agrotain Ultra	pt	12.50	Ethephon 6E	pt	3.38
Amm Sulfate (21% N)	cwt	26.00	Finish 6	pt	10.93
Boron Plus	pt	5.10	Folex 6EC	pt	11.25
DAP	cwt	47.21	Freefall SC	oz	0.89
Fert 10-34-0	cwt	40.00	Ginstar EC	pt	29.72
Fert 10-34-0	gal	4.66	Gramoxone SL	oz	0.33
Fert 11-37-0	cwt	41.25	Sharpen	oz	7.91
Fert 41-0-0-4	cwt	38.00	Sodium Chlorate 5L	gal	8.61
Lime	ton	55.00	SuperBoll	oz	0.18
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.14
Phosphorus (46% P2O5)	cwt	39.25	Tribufos 6lb	pt	11.25
Potash (60% K2O)	cwt	36.20	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	36.15	Haul Corn	bu	0.23
UAN (32%)	gal	4.00	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	31.10	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	3.46	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	31.69	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.50	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.87	2,4-D Amine 4	pt	2.72
Alfa Guard	lb	1.62	2,4-D Ester	pt	4.87
Allegiance Flowabl	oz	6.33	AAtrex 4L	pt	3.00
Ameristar Top	oz	2.52	Accent Q	oz	23.39
Approach Prima	pt	34.50	Acuron	oz	0.56
Apron Maxx RTA	oz	1.02			
Artisan	oz	0.70			

(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 ⁵	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
 Contour levee rice flood irrigation system
 80-acre system, 33 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.02	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
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
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36			0.05	1.16	0.99
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
Tear Down Levees										
Levee Splitter (1/80)	32"		0.38	0.10	0.22			0.01	0.71	0.76
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
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

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

Appendix Table 9 Estimated costs for field operations, per acre
 Straight levee rice flood irrigation system
 80-acre system, 27 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.02	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	3.79
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36			0.05	1.16	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	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	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	218.54

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

Appendix Table 10 Estimated costs for field operations, per acre
 Straight levee rice multi inlet flood irrigation system
 80-acre system, 23 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.02	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	3.79
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36			0.05	1.16	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	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	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	2.94
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.19	0.06	0.22			0.01	0.48	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	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

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

Appendix Table 11 Estimated costs for field operations, per acre
 Straight levee rice - zero grade flood irrigation
 80-acre system, 19 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----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
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

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

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