

**RICE
2025
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2024-04**

November 2024

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 2025 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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

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Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2025 Budget Committees.....	ii
2025 Planning Budgets	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures	1
Production Practices	1
Machinery	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns	3
Irrigation Costs	3
Net Returns	3
 Enterprise Budgets	
Table	
1 Contour levee rice Flood irrigated, 33 ac-in,.....	6
2 Straight levee rice Flood irrigated, 27 ac-in,.....	12
3 Straight levee rice Multi inlet flood irrigated, 23 ac-in,.....	18
4 Straight levee rice – zero grade Flood irrigated, 19 ac-in,.....	24
5 Conventional hybrid contour levee rice Flood irrigated, 33 ac-in,.....	30
6 Conventional hybrid straight levee rice Flood irrigated, 27 ac-in,.....	36
7 Conventional hybrid straight levee multi inlet rice Flood irrigated, 23 ac-in,.....	42
8 Conventional hybrid straight levee-zero grade rice Flood irrigated, 19 ac-in,.....	48
9 Clearfield contour levee rice Flood irrigated, 33 ac-in,.....	54
10 Clearfield straight levee rice Flood irrigated, 27 ac-in,.....	60
11 Clearfield straight levee multi inlet rice Flood irrigated, 23 ac-in,.....	66
12 Clearfield straight levee-zero grade rice Flood irrigated, 19 ac-in,.....	72

13	Fullpage hybrid contour levee rice Flood irrigated, 33 ac-in,.....	78
14	Fullpage hybrid straight levee rice Flood irrigated, 27 ac-in,.....	84
15	Fullpage hybrid straight levee multi inlet rice Flood irrigated, 23 ac-in,.....	90
16	Fullpage hybrid straight levee-zero grade rice Flood irrigated, 19 ac-in,.....	96
17	Max-Ace hybrid contour levee rice Flood irrigated, 33 ac-in,.....	102
18	Max-Ace hybrid straight levee rice Flood irrigated, 27 ac-in,.....	108
19	Max-Ace hybrid straight levee multi inlet rice Flood irrigated, 23 ac-in,.....	114
20	Max-Ace hybrid straight levee-zero grade rice Flood irrigated, 19 ac-in,.....	120
21	Provisia contour levee rice Flood irrigated, 33 ac-in,.....	126
22	Provisia straight levee rice Flood irrigated, 27 ac-in,.....	132
23	Provisia straight levee multi inlet rice Flood irrigated, 23 ac-in,.....	138
24	Provisia straight levee-zero grade rice Flood irrigated, 19 ac-in,.....	144
25	Conventional Row Rice	150

Appendix Table

1	Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour	157
2	Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per acre.....	158
3	Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre	159
4	Operating inputs: estimated prices	164
5	Estimated fuel prices and interest rates	167
6	Labor types, wage rates and unallocated labor multipliers for crop enterprises.....	167
7	Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets	168
8	Contour levee rice flood irrigation system 80-acre system, 33 ac-in., Delta Area.....	169
9	Straight levee rice flood irrigation system 80-acre system, 27 ac-in., Delta Area	170
10	Straight levee rice multi-inlet flood irrigation system 80-acre system, 23 ac-in., Delta Area	171
11	Straight levee rice - zero grade flood irrigation system 80-acre system, 19 ac-in., Delta Area	172
	Literature Cited	174

2025 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 2024. (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 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.5000	44.28	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.0000	3.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1269	2.37	_____
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	18.69	0.4947	9.25	_____
DIESEL FUEL					
Tractors	gal	2.86	7.5785	21.65	_____
Harvesters	gal	2.86	2.7765	7.94	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.95	1.0000	10.95	_____
Tractors	acre	6.00	1.0000	6.00	_____
Harvesters	acre	7.43	1.0000	7.43	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	27.97	1.0000	27.97	_____
TOTAL DIRECT EXPENSES				964.37	_____
FIXED EXPENSES					
Implements	acre	30.81	1.0000	30.81	_____
Tractors	acre	46.44	1.0000	46.44	_____
Harvesters	acre	35.58	1.0000	35.58	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				172.27	_____
TOTAL SPECIFIED EXPENSES				1136.64	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	54.03	1.0000	54.03	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	9.56	1.0000	9.56	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6745	12.60	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	18.69	0.4947	9.25	_____
DIESEL FUEL	gal	2.86	37.2377	106.48	_____
REPAIR & MAINTENANCE	acre	38.69	1.0000	38.69	_____
INTEREST ON OP. CAP.	acre	27.97	1.0000	27.97	_____

TOTAL DIRECT EXPENSES				964.37	_____
RETURNS ABOVE DIRECT EXPENSES				-4.37	_____
TOTAL FIXED EXPENSES				172.27	_____

TOTAL SPECIFIED EXPENSES				1136.64	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-176.64	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
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'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
Class Act NG	pt	2.50						0.10	2.60		2.60
MSO	pt	1.75						0.07	1.82		1.82
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	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Regiment	oz	24.09						0.83	24.92		24.92
Dyne-A-Pak	pt	2.09						0.07	2.16		2.16
App Fert by Air	cwt	34.00						1.17	35.17		35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18		67.18
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	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Permit	oz	15.69						0.54	16.23		16.23
Crop Oil Conc.(Pet.)	pt	1.14						0.04	1.18		1.18
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	1.75						0.05	1.80		1.80
Rice Management											
RICE MGT. LABOR	hour				4.53			0.12	4.65		4.65
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				4.53			0.09	4.62		4.62
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Ameristar Top	oz	27.60						0.57	28.17		28.17
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		7.94	10.20	4.50			0.31	22.95	41.05	64.00
Grain Cart Rice	700 bu		0.36	0.27	0.40			0.01	1.04	1.22	2.26
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	48.00						0.66	48.66		48.66
Dry Rice	bu	64.00						0.88	64.88		64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53	205.88
TOTALS		720.85	106.48	38.69	70.38	0.00	27.97	964.37	172.27	1136.64	

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	1.75	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	9.52	11.33	11.33	10.74	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	9.44	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	10.86	5.05
INTEREST ON OP. CAP.	1.15	0.00	0.00	0.00	1.01	0.00	6.72	10.18	4.02	2.80	1.95	0.14
TOTAL DIRECT EXPENSES	15.06	0.00	0.00	0.00	19.28	0.00	169.72	306.29	150.46	137.99	144.99	20.58
NET INCOME	-15.06	0.00	0.00	0.00	-19.28	0.00	-169.72	-306.29	-150.46	-137.99	815.01	-20.58
NET INCOME TO DATE	-15.06	-15.06	-15.06	-15.06	-34.34	-34.34	-204.06	-510.35	-660.81	-798.80	16.21	-4.37

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-547 -719	-523 -695	-499 -671	-475 -647	-451 -623	-427 -599	-403 -575	-379 -551	-355 -527	-331 -503	-307 -479
60	96.00	bu	-486 -659	-458 -630	-429 -601	-400 -572	-371 -544	-342 -515	-314 -486	-285 -457	-256 -428	-227 -400	-198 -371
70	112.00	bu	-426 -598	-392 -564	-359 -531	-325 -497	-291 -464	-258 -430	-224 -396	-191 -363	-157 -329	-123 -296	-90 -262
80	128.00	bu	-365 -537	-327 -499	-288 -461	-250 -422	-212 -384	-173 -345	-135 -307	-96 -269	-58 -230	-20 -192	18 -153
90	144.00	bu	-305 -477	-261 -434	-218 -390	-175 -347	-132 -304	-89 -261	-45 -218	-2 -174	40 -131	83 -88	126 -45
100	160.00	bu	-244 -416	-196 -368	-148 -320	-100 -272	-52 -224	-4 -176	43 -128	91 -80	139 -32	187 15	235 63
110	176.00	bu	-183 -355	-130 -303	-78 -250	-25 -197	27 -144	80 -91	133 -39	185 13	238 66	291 119	344 172
120	192.00	bu	-123 -295	-65 -237	-7 -180	49 -122	107 -64	164 -7	222 50	280 107	337 165	395 223	452 280
130	208.00	bu	-62 -234	-0 -172	62 -109	124 -47	187 14	249 77	311 139	374 202	436 264	499 326	561 389
140	224.00	bu	-1 -174	65 -106	132 -39	199 27	267 94	334 161	401 229	468 296	535 363	603 430	670 497
150	240.00	bu	58 -113	130 -41	202 30	274 102	346 174	418 246	490 318	562 390	634 462	706 534	778 606

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2024 input prices.

Table 2.A Estimated costs per acre
Straight levee rice
Flood irrigated, 27 ac-in, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.5000	44.28	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1269	2.37	_____
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	18.69	0.4947	9.25	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.7765	7.94	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.85	1.0000	10.85	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	7.43	1.0000	7.43	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	27.22	1.0000	27.22	_____
TOTAL DIRECT EXPENSES				929.12	_____
FIXED EXPENSES					
Implements	acre	30.11	1.0000	30.11	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	35.58	1.0000	35.58	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				202.17	_____
TOTAL SPECIFIED EXPENSES				1131.29	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	54.03	1.0000	54.03	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	11.31	1.0000	11.31	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6268	11.72	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.69	0.4947	9.25	_____
DIESEL FUEL	gal	2.86	31.9758	91.45	_____
REPAIR & MAINTENANCE	acre	38.29	1.0000	38.29	_____
INTEREST ON OP. CAP.	acre	27.22	1.0000	27.22	_____

TOTAL DIRECT EXPENSES				929.12	_____
RETURNS ABOVE DIRECT EXPENSES				30.88	_____
TOTAL FIXED EXPENSES				202.17	_____

TOTAL SPECIFIED EXPENSES				1131.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-171.29	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
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'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
MSO	pt	1.75						0.07	1.82		1.82
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	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Regiment	oz	24.09						0.83	24.92		24.92
Dyne-A-Pak	pt	2.09						0.07	2.16		2.16
App Fert by Air	cwt	34.00						1.17	35.17		35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18		67.18
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	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Permit	oz	15.69						0.54	16.23		16.23
Crop Oil Conc.(Pet.)	pt	1.14						0.04	1.18		1.18
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	3.50						0.10	3.60		3.60
Rice Management											
RICE MGT. LABOR	hour				1.81			0.05	1.86		1.86
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				1.81			0.04	1.85		1.85
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Ameristar Top	oz	27.60						0.57	28.17		28.17
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		7.94	10.20	4.50			0.31	22.95	41.05	64.00
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	48.00						0.66	48.66		48.66
Dry Rice	bu	64.00						0.88	64.88		64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	2.25	64.84	14.99	22.96			3.28	108.32	97.26	205.58
TOTALS		720.35	91.45	38.29	51.81	0.00	27.22	929.12	202.17	1131.29	

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	10.36	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	9.06	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	10.71	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	6.43	9.89	3.80	2.60	1.95	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	162.46	297.15	142.23	128.03	144.08	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-162.46	-297.15	-142.23	-128.03	815.92	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-200.40	-497.55	-639.78	-767.81	48.11	30.88

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
Rice	PRODUCT PRICE												
	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-512 -714	-488 -690	-464 -666	-440 -642	-416 -618	-392 -594	-368 -570	-344 -546	-320 -522	-296 -498	-272 -474
60	96.00	bu	-451 -653	-422 -625	-394 -596	-365 -567	-336 -538	-307 -509	-278 -481	-250 -452	-221 -423	-192 -394	-163 -365
70	112.00	bu	-391 -593	-357 -559	-323 -526	-290 -492	-256 -458	-223 -425	-189 -391	-155 -358	-122 -324	-88 -290	-55 -257
80	128.00	bu	-330 -532	-292 -494	-253 -455	-215 -417	-176 -378	-138 -340	-100 -302	-61 -263	-23 -225	15 -186	53 -148
90	144.00	bu	-269 -471	-226 -428	-183 -385	-140 -342	-96 -299	-53 -255	-10 -212	32 -169	75 -126	119 -83	162 -39
100	160.00	bu	-209 -411	-161 -363	-113 -315	-65 -267	-17 -219	30 -171	78 -123	126 -75	174 -27	222 20	270 68
110	176.00	bu	-148 -350	-95 -297	-42 -245	9 -192	62 -139	115 -86	168 -33	221 18	273 71	326 124	379 177
120	192.00	bu	-87 -289	-30 -232	27 -174	84 -117	142 -59	200 -1	257 55	315 113	372 170	430 228	488 286
130	208.00	bu	-27 -229	35 -166	97 -104	160 -42	222 20	284 82	347 145	409 207	472 269	534 332	596 394
140	224.00	bu	33 -168	100 -101	167 -34	235 32	302 100	369 167	436 234	503 301	571 368	638 436	705 503
150	240.00	bu	94 -108	166 -36	238 35	310 107	382 179	454 251	526 323	598 395	670 467	742 539	814 611

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 2024 input prices.

Table 3.A Estimated costs per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.5000	44.28	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	26.94	1.0000	26.94	_____
TOTAL DIRECT EXPENSES				914.88	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1113.72	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____
TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	54.03	1.0000	54.03	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	54.93	1.0000	54.93	_____
ADJUVANTS	acre	11.60	1.0000	11.60	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	26.94	1.0000	26.94	_____
TOTAL DIRECT EXPENSES				914.88	_____
RETURNS ABOVE DIRECT EXPENSES				45.12	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1113.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-153.72	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
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'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
Class Act NG	pt	2.50						0.10	2.60		2.60
MSO	pt	1.75						0.07	1.82		1.82
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	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Regiment	oz	24.09						0.83	24.92		24.92
Dyne-A-Pak	pt	2.09						0.07	2.16		2.16
App Fert by Air	cwt	34.00						1.17	35.17		35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18		67.18
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	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Permit	oz	15.69						0.54	16.23		16.23
Crop Oil Conc.(Pet.)	pt	1.43						0.05	1.48		1.48
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	3.50						0.10	3.60		3.60
Rice Management											
RICE MGT. LABOR	hour				1.81			0.05	1.86		1.86
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				1.81			0.04	1.85		1.85
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Ameristar Top	oz	27.60						0.57	28.17		28.17
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	48.00						0.66	48.66		48.66
Dry Rice	bu	64.00						0.88	64.88		64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41	196.24
TOTALS		728.56	81.77	36.86	40.75	0.00	26.94	914.88	198.84	1113.72	

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.52	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	6.60	9.71	3.66	2.50	1.92	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	166.79	292.13	136.96	122.80	141.03	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-166.79	-292.13	-136.96	-122.80	818.97	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-204.73	-496.86	-633.82	-756.62	62.35	45.12

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
Rice	PRODUCT PRICE												
	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-498 -696	-474 -672	-450 -648	-426 -624	-402 -600	-378 -576	-354 -552	-330 -528	-306 -504	-282 -480	-258 -456
60	96.00	bu	-437 -636	-408 -607	-379 -578	-351 -549	-322 -521	-293 -492	-264 -463	-235 -434	-207 -405	-178 -377	-149 -348
70	112.00	bu	-376 -575	-343 -542	-309 -508	-276 -474	-242 -441	-208 -407	-175 -374	-141 -340	-108 -306	-74 -273	-40 -239
80	128.00	bu	-316 -515	-277 -476	-239 -438	-200 -399	-162 -361	-124 -323	-85 -284	-47 -246	-8 -207	29 -169	67 -131
90	144.00	bu	-255 -454	-212 -411	-169 -367	-125 -324	-82 -281	-39 -238	3 -195	46 -151	90 -108	133 -65	176 -22
100	160.00	bu	-194 -393	-146 -345	-98 -297	-50 -249	-2 -201	45 -153	93 -105	141 -57	189 -9	237 38	285 86
110	176.00	bu	-134 -333	-81 -280	-28 -227	24 -174	76 -121	129 -69	182 -16	235 36	288 89	340 142	393 194
120	192.00	bu	-73 -272	-15 -214	41 -157	99 -99	156 -42	214 15	272 73	329 130	387 188	444 245	502 303
130	208.00	bu	-12 -211	49 -149	111 -86	174 -24	236 37	299 100	361 162	423 225	486 287	548 349	611 412
140	224.00	bu	47 -151	114 -83	182 -16	249 50	316 117	383 184	450 252	518 319	585 386	652 453	719 520
150	240.00	bu	108 -90	180 -18	252 53	324 125	396 197	468 269	540 341	612 413	684 485	756 557	828 629

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 2024 input prices.

Table 4.A Estimated costs per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.5000	44.28	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	25.58	1.0000	25.58	_____
TOTAL DIRECT EXPENSES				876.89	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1067.99	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	54.03	1.0000	54.03	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	46.50	1.0000	46.50	_____
ADJUVANTS	acre	11.60	1.0000	11.60	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	25.58	1.0000	25.58	_____

TOTAL DIRECT EXPENSES				876.89	_____
RETURNS ABOVE DIRECT EXPENSES				83.11	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1067.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-107.99	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
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'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
Class Act NG	pt	2.50						0.10	2.60		2.60
MSO	pt	1.75						0.07	1.82		1.82
Rice Consultant	acre	8.00						0.28	8.28		8.28
App Fert by Air	cwt	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Regiment	oz	24.09						0.83	24.92		24.92
Dyne-A-Pak	pt	2.09						0.07	2.16		2.16
App Fert by Air	cwt	34.00						1.17	35.17		35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18		67.18
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	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Permit	oz	15.69						0.54	16.23		16.23
Crop Oil Conc.(Pet.)	pt	1.43						0.05	1.48		1.48
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	3.50						0.10	3.60		3.60
Rice Management											
RICE MGT. LABOR	hour				1.81			0.05	1.86		1.86
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				1.81			0.04	1.85		1.85
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Ameristar Top	oz	27.60						0.57	28.17		28.17
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	48.00						0.66	48.66		48.66
Dry Rice	bu	64.00						0.88	64.88		64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67	159.29
TOTALS		709.96	69.82	33.74	37.79	0.00	25.58	876.89	191.10	1067.99	

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.52	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	5.48	9.63	3.59	2.45	1.88	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	138.52	289.63	134.47	120.33	138.77	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-138.52	-289.63	-134.47	-120.33	821.23	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-176.46	-466.09	-600.56	-720.89	100.34	83.11

Note: Cost of production estimates are based on 2024 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, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-460 -651	-436 -627	-412 -603	-388 -579	-364 -555	-340 -531	-316 -507	-292 -483	-268 -459	-244 -435	-220 -411
60	96.00	bu	-399 -590	-370 -561	-341 -532	-313 -504	-284 -475	-255 -446	-226 -417	-197 -388	-169 -360	-140 -331	-111 -302
70	112.00	bu	-338 -529	-305 -496	-271 -462	-238 -429	-204 -395	-170 -361	-137 -328	-103 -294	-70 -261	-36 -227	-2 -193
80	128.00	bu	-278 -469	-239 -430	-201 -392	-162 -354	-124 -315	-86 -277	-47 -238	-9 -200	29 -162	67 -123	105 -85
90	144.00	bu	-217 -408	-174 -365	-131 -322	-87 -279	-44 -235	-1 -192	41 -149	84 -106	128 -63	171 -19	214 23
100	160.00	bu	-156 -347	-108 -299	-60 -251	-12 -203	35 -155	83 -107	131 -59	179 -11	227 36	275 84	323 132
110	176.00	bu	-96 -287	-43 -234	9 -181	62 -128	114 -76	167 -23	220 29	273 82	326 135	378 187	431 240
120	192.00	bu	-35 -226	22 -169	79 -111	137 -53	194 3	252 61	310 118	367 176	425 234	482 291	540 349
130	208.00	bu	25 -166	87 -103	149 -41	212 21	274 83	337 145	399 208	461 270	524 333	586 395	649 457
140	224.00	bu	85 -105	152 -38	220 28	287 96	354 163	421 230	488 297	556 364	623 432	690 499	757 566
150	240.00	bu	146 -44	218 27	290 99	362 171	434 243	506 315	578 387	650 459	722 531	794 603	866 675

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2024 input prices.

Table 5.A Estimated costs per acre
 Conventional hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
Crop Oil Conc. (Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.6209	21.78	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	6.02	1.0000	6.02	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	31.88	1.0000	31.88	_____
TOTAL DIRECT EXPENSES				1045.20	_____
FIXED EXPENSES					
Implements	acre	30.08	1.0000	30.08	_____
Tractors	acre	46.61	1.0000	46.61	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				166.96	_____
TOTAL SPECIFIED EXPENSES				1212.16	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.98	1.0000	45.98	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	10.98	1.0000	10.98	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6575	12.29	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	36.9100	105.55	_____
REPAIR & MAINTENANCE	acre	37.35	1.0000	37.35	_____
INTEREST ON OP. CAP.	acre	31.88	1.0000	31.88	_____

TOTAL DIRECT EXPENSES				1045.20	_____
RETURNS ABOVE DIRECT EXPENSES				34.80	_____
TOTAL FIXED EXPENSES				166.96	_____

TOTAL SPECIFIED EXPENSES				1212.16	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-132.16	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Conv Hyb Trt	lb	145.13						5.99	151.12	151.12
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App by Air (5 gal)	appl	8.05						0.28	8.33	8.33
Regiment	oz	24.09						0.83	24.92	24.92
Dyne-A-Pak	pt	2.09						0.07	2.16	2.16
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
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	8.05						0.28	8.33	8.33
Facet L	pt	34.72						1.19	35.91	35.91
Permit	oz	15.69						0.54	16.23	16.23
Crop Oil Conc. (Pet.)	pt	1.14						0.04	1.18	1.18
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53
TOTALS		807.88	105.55	37.35	62.54	0.00	31.88	1045.20	166.96	1212.16

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	7.71	8.61	8.61	10.15	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	8.51	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	9.52	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	10.83	10.39	4.00	2.00	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	273.46	312.32	149.47	98.49	156.29	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-273.46	-312.32	-149.47	-98.49	923.71	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-311.40	-623.72	-773.19	-871.68	52.03	34.80

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
Rice	PRODUCT PRICE												
	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-576 -743	-549 -716	-522 -689	-495 -662	-468 -635	-441 -608	-414 -581	-387 -554	-360 -527	-333 -500	-306 -473
60	108.00	bu	-508 -675	-475 -642	-443 -610	-410 -577	-378 -545	-346 -513	-313 -480	-281 -448	-248 -415	-216 -383	-184 -351
70	126.00	bu	-439 -606	-402 -569	-364 -531	-326 -493	-288 -455	-250 -417	-213 -380	-175 -342	-137 -304	-99 -266	-61 -228
80	144.00	bu	-371 -538	-328 -495	-285 -452	-242 -409	-198 -365	-155 -322	-112 -279	-69 -236	-26 -193	17 -149	60 -106
90	162.00	bu	-303 -470	-254 -421	-206 -373	-157 -324	-109 -275	-60 -227	-11 -178	36 -130	85 -81	133 -32	182 15
100	180.00	bu	-235 -402	-181 -348	-127 -294	-73 -240	-19 -186	34 -132	88 -78	142 -24	196 29	250 83	304 137
110	198.00	bu	-166 -333	-107 -274	-48 -215	11 -155	70 -96	130 -36	189 22	248 81	308 141	367 200	427 260
120	216.00	bu	-98 -265	-33 -200	30 -136	95 -71	160 -6	225 58	290 123	354 187	419 252	484 317	549 382
130	234.00	bu	-30 -197	39 -127	109 -57	180 13	250 83	320 153	390 223	460 293	531 364	601 434	671 504
140	252.00	bu	37 -129	113 -53	188 21	264 97	340 173	415 248	491 324	566 399	642 475	718 551	793 626
150	270.00	bu	105 -61	186 19	267 100	348 181	429 262	510 343	591 424	672 505	753 586	834 667	915 748

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 2024 input prices.

Table 6.A Estimated costs per acre
 Conventional hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
Crop Oil Conc. (Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	31.00	1.0000	31.00	_____
TOTAL DIRECT EXPENSES				1015.17	_____
FIXED EXPENSES					
Implements	acre	29.38	1.0000	29.38	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				196.69	_____
TOTAL SPECIFIED EXPENSES				1211.86	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.98	1.0000	45.98	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	10.98	1.0000	10.98	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6099	11.41	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	31.6056	90.39	_____
REPAIR & MAINTENANCE	acre	36.93	1.0000	36.93	_____
INTEREST ON OP. CAP.	acre	31.00	1.0000	31.00	_____

TOTAL DIRECT EXPENSES				1015.17	_____
RETURNS ABOVE DIRECT EXPENSES				64.83	_____
TOTAL FIXED EXPENSES				196.69	_____

TOTAL SPECIFIED EXPENSES				1211.86	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-131.86	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Conv Hyb Trt	lb	145.13						5.99	151.12	151.12
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App by Air (5 gal)	appl	8.05						0.28	8.33	8.33
Regiment	oz	24.09						0.83	24.92	24.92
Dyne-A-Pak	pt	2.09						0.07	2.16	2.16
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
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	8.05						0.28	8.33	8.33
Facet L	pt	34.72						1.19	35.91	35.91
Permit	oz	15.69						0.54	16.23	16.23
Crop Oil Conc. (Pet.)	pt	1.14						0.04	1.18	1.18
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	2.25	64.84	14.99	22.96			3.28	108.32	97.26
TOTALS		805.63	90.39	36.93	51.22	0.00	31.00	1015.17	196.69	1211.86

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	9.77	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	8.00	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	9.35	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	10.54	10.16	3.80	1.85	2.10	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	266.20	305.05	142.23	91.30	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-266.20	-305.05	-142.23	-91.30	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-304.14	-609.19	-751.42	-842.72	82.06	64.83

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-546 -742	-519 -715	-492 -688	-465 -661	-438 -634	-411 -607	-384 -580	-357 -553	-330 -526	-303 -499	-276 -472
60	108.00	bu	-478 -674	-445 -642	-413 -609	-380 -577	-348 -545	-316 -512	-283 -480	-251 -447	-218 -415	-186 -383	-154 -350
70	126.00	bu	-409 -606	-372 -568	-334 -530	-296 -493	-258 -455	-220 -417	-183 -379	-145 -341	-107 -304	-69 -266	-31 -228
80	144.00	bu	-341 -538	-298 -495	-255 -451	-212 -408	-168 -365	-125 -322	-82 -279	-39 -235	3 -192	47 -149	90 -106
90	162.00	bu	-273 -470	-224 -421	-176 -372	-127 -324	-78 -275	-30 -227	18 -178	66 -129	115 -81	164 -32	212 15
100	180.00	bu	-205 -401	-151 -347	-97 -293	-43 -239	10 -185	64 -131	118 -77	172 -23	226 30	280 84	334 138
110	198.00	bu	-136 -333	-77 -274	-18 -214	41 -155	100 -96	160 -36	219 22	278 82	338 141	397 200	457 260
120	216.00	bu	-68 -265	-3 -200	60 -135	125 -71	190 -6	255 58	320 123	384 188	449 252	514 317	579 382
130	234.00	bu	-0 -197	69 -126	139 -56	210 13	280 83	350 153	420 224	490 294	561 364	631 434	701 504
140	252.00	bu	67 -128	143 -53	218 22	294 97	370 173	445 249	521 324	596 400	672 475	748 551	823 627
150	270.00	bu	135 -60	216 20	297 101	378 182	459 263	540 344	621 425	702 506	783 587	864 668	945 749

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 2024 input prices.

Table 7.A Estimated costs per acre
 Conventional hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
Crop Oil Conc. (Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	30.75	1.0000	30.75	_____
TOTAL DIRECT EXPENSES				1003.68	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1202.52	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.98	1.0000	45.98	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	10.98	1.0000	10.98	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	30.75	1.0000	30.75	_____

TOTAL DIRECT EXPENSES				1003.68	_____
RETURNS ABOVE DIRECT EXPENSES				76.32	_____

TOTAL FIXED EXPENSES				198.84	_____

TOTAL SPECIFIED EXPENSES				1202.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-122.52	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
Rice Conv Hyb Trt	lb	145.13						5.99	151.12		151.12
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
MSO	pt	1.75						0.07	1.82		1.82
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	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
Rice Consultant	acre	8.00						0.28	8.28		8.28
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Regiment	oz	24.09						0.83	24.92		24.92
Dyne-A-Pak	pt	2.09						0.07	2.16		2.16
App Fert by Air	cwt	36.31						1.25	37.56		37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75		71.75
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	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Permit	oz	15.69						0.54	16.23		16.23
Crop Oil Conc. (Pet.)	pt	1.14						0.04	1.18		1.18
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	3.50						0.10	3.60		3.60
Rice Management											
RICE MGT. LABOR	hour				1.81			0.05	1.86		1.86
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				1.81			0.04	1.85		1.85
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	54.00						0.74	54.74		54.74
Dry Rice	bu	72.00						0.99	72.99		72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41	196.24
TOTALS		813.55	81.77	36.86	40.75	0.00	30.75	1003.68	198.84	1202.52	

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	10.71	9.97	3.66	1.75	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	270.53	299.73	136.96	86.07	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-270.53	-299.73	-136.96	-86.07	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-308.47	-608.20	-745.16	-831.23	93.55	76.32

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-534 -733	-507 -706	-480 -679	-453 -652	-426 -625	-399 -598	-372 -571	-345 -544	-318 -517	-291 -490	-264 -463
60	108.00	bu	-466 -665	-434 -633	-401 -600	-369 -568	-336 -535	-304 -503	-272 -471	-239 -438	-207 -406	-174 -373	-142 -341
70	126.00	bu	-398 -597	-360 -559	-322 -521	-284 -483	-247 -446	-209 -408	-171 -370	-133 -332	-95 -294	-58 -257	-20 -219
80	144.00	bu	-330 -528	-286 -485	-243 -442	-200 -399	-157 -356	-114 -312	-70 -269	-27 -226	15 -183	58 -140	101 -96
90	162.00	bu	-261 -460	-213 -412	-164 -363	-116 -314	-67 -266	-18 -217	29 -169	78 -120	126 -71	175 -23	224 25
100	180.00	bu	-193 -392	-139 -338	-85 -284	-31 -230	22 -176	76 -122	130 -68	184 -14	238 39	292 93	346 147
110	198.00	bu	-125 -324	-66 -264	-6 -205	52 -146	112 -86	171 -27	230 32	290 91	349 150	409 210	468 269
120	216.00	bu	-57 -256	7 -191	72 -126	137 -61	201 3	266 67	331 132	396 197	461 262	525 327	590 391
130	234.00	bu	11 -187	81 -117	151 -47	221 22	291 92	362 163	432 233	502 303	572 373	642 443	713 514
140	252.00	bu	79 -119	154 -44	230 31	306 107	381 182	457 258	532 333	608 409	684 485	759 560	835 636
150	270.00	bu	147 -51	228 29	309 110	390 191	471 272	552 353	633 434	714 515	795 596	876 677	957 758

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 2024 input prices.

Table 8.A Estimated costs per acre
 Conventional hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Regiment	oz	48.18	0.5000	24.09	_____
Facet L	pt	17.36	2.0000	34.72	_____
Permit	oz	23.42	0.6700	15.69	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
Class Act NG	pt	5.00	0.5000	2.50	_____
Dyne-A-Pak	pt	4.17	0.5000	2.09	_____
Crop Oil Conc. (Pet.)	pt	2.86	0.4000	1.14	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	29.74	1.0000	29.74	_____
TOTAL DIRECT EXPENSES				974.47	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1165.57	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	45.98	1.0000	45.98	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	150.55	1.0000	150.55	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	154.56	1.0000	154.56	_____
ADJUVANTS	acre	10.98	1.0000	10.98	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	29.74	1.0000	29.74	_____

TOTAL DIRECT EXPENSES				974.47	_____
RETURNS ABOVE DIRECT EXPENSES				105.53	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1165.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-85.57	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Conv Hyb Trt	lb	145.13						5.99	151.12	151.12
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App by Air (5 gal)	appl	8.05						0.28	8.33	8.33
Regiment	oz	24.09						0.83	24.92	24.92
Dyne-A-Pak	pt	2.09						0.07	2.16	2.16
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
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	8.05						0.28	8.33	8.33
Facet L	pt	34.72						1.19	35.91	35.91
Permit	oz	15.69						0.54	16.23	16.23
Crop Oil Conc. (Pet.)	pt	1.14						0.04	1.18	1.18
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67
TOTALS		803.38	69.82	33.74	37.79	0.00	29.74	974.47	191.10	1165.57

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	8.05	16.10	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	74.50	20.18	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	11.33	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	4.25	3.23	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	9.94	9.89	3.59	1.70	2.07	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	251.04	297.23	134.47	83.60	152.96	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-251.04	-297.23	-134.47	-83.60	927.04	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-288.98	-586.21	-720.68	-804.28	122.76	105.53

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			PRODUCT PRICE										
			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-505 -696	-478 -669	-451 -642	-424 -615	-397 -588	-370 -561	-343 -534	-316 -507	-289 -480	-262 -453	-235 -426
60	108.00	bu	-437 -628	-404 -596	-372 -563	-340 -531	-307 -498	-275 -466	-242 -434	-210 -401	-178 -369	-145 -336	-113 -304
70	126.00	bu	-369 -560	-331 -522	-293 -484	-255 -446	-217 -409	-180 -371	-142 -333	-104 -295	-66 -257	-28 -220	8 -182
80	144.00	bu	-300 -492	-257 -448	-214 -405	-171 -362	-128 -319	-84 -276	-41 -232	1 -189	44 -146	87 -103	131 -60
90	162.00	bu	-232 -423	-184 -375	-135 -326	-86 -277	-38 -229	10 -180	58 -132	107 -83	156 -34	204 13	253 62
100	180.00	bu	-164 -355	-110 -301	-56 -247	-2 -193	51 -139	105 -85	159 -31	213 22	267 76	321 130	375 184
110	198.00	bu	-96 -287	-36 -227	22 -168	81 -109	141 -49	200 9	260 69	319 128	378 187	438 247	497 306
120	216.00	bu	-28 -219	36 -154	101 -89	166 -24	231 40	295 104	360 169	425 234	490 299	555 364	619 428
130	234.00	bu	40 -150	110 -80	180 -10	250 59	321 129	391 200	461 270	531 340	601 410	672 480	742 551
140	252.00	bu	108 -82	184 -7	259 68	335 144	410 219	486 295	562 370	637 446	713 522	788 597	864 673
150	270.00	bu	176 -14	257 66	338 147	419 228	500 309	581 390	662 471	743 552	824 633	905 714	986 795

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 2024 input prices.

Table 9.A Estimated costs per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Clearpath	oz	4.46	9.6000	42.82	_____
Newpath	oz	4.50	6.0000	27.00	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.28	65.0000	83.20	_____
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	3.50	1.5000	5.25	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1269	2.37	_____
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	18.69	0.4947	9.25	_____
DIESEL FUEL					
Tractors	gal	2.86	7.6209	21.78	_____
Harvesters	gal	2.86	2.7765	7.94	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.95	1.0000	10.95	_____
Tractors	acre	6.02	1.0000	6.02	_____
Harvesters	acre	7.43	1.0000	7.43	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	31.95	1.0000	31.95	_____
TOTAL DIRECT EXPENSES				1052.44	_____
FIXED EXPENSES					
Implements	acre	30.81	1.0000	30.81	_____
Tractors	acre	46.61	1.0000	46.61	_____
Harvesters	acre	35.58	1.0000	35.58	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				172.44	_____
TOTAL SPECIFIED EXPENSES				1224.88	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	156.88	1.0000	156.88	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	121.13	1.0000	121.13	_____
ADJUVANTS	acre	19.52	1.0000	19.52	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6745	12.60	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	18.69	0.4947	9.25	_____
DIESEL FUEL	gal	2.86	37.2802	106.61	_____
REPAIR & MAINTENANCE	acre	38.71	1.0000	38.71	_____
INTEREST ON OP. CAP.	acre	31.95	1.0000	31.95	_____

TOTAL DIRECT EXPENSES				1052.44	_____
RETURNS ABOVE DIRECT EXPENSES				-92.44	_____
TOTAL FIXED EXPENSES				172.44	_____

TOTAL SPECIFIED EXPENSES				1224.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-264.88	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Clearfield	lb	83.20						3.43	86.63	86.63
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
Class Act NG	pt	2.50						0.10	2.60	2.60
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Clearpath	oz	42.82						1.77	44.59	44.59
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Newpath	oz	27.00						0.93	27.93	27.93
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				2.72			0.09	2.81	2.81
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				4.53			0.12	4.65	4.65
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				4.53			0.09	4.62	4.62
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		7.94	10.20	4.50			0.31	22.95	41.05
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	48.00						0.66	48.66	48.66
Dry Rice	bu	64.00						0.88	64.88	64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53
TOTALS		804.79	106.61	38.71	70.38	0.00	31.95	1052.44	172.44	1224.88

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	88.47	38.01	20.18	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	121.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	9.52	11.33	11.33	10.74	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	9.57	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	10.88	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.78	8.79	4.07	2.80	1.96	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	297.57	264.30	152.26	137.99	145.15	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-297.57	-264.30	-152.26	-137.99	814.85	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-335.51	-599.81	-752.07	-890.06	-75.21	-92.44

Note: Cost of production estimates are based on 2024 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, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-635 -808	-611 -784	-587 -760	-563 -736	-539 -712	-515 -688	-491 -664	-467 -640	-443 -616	-419 -592	-395 -568
60	96.00	bu	-575 -747	-546 -718	-517 -689	-488 -661	-459 -632	-431 -603	-402 -574	-373 -545	-344 -517	-315 -488	-287 -459
70	112.00	bu	-514 -686	-480 -653	-447 -619	-413 -586	-379 -552	-346 -518	-312 -485	-279 -451	-245 -418	-211 -384	-178 -350
80	128.00	bu	-453 -626	-415 -587	-376 -549	-338 -510	-300 -472	-261 -434	-223 -395	-184 -357	-146 -318	-108 -280	-69 -242
90	144.00	bu	-393 -565	-349 -522	-306 -479	-263 -435	-220 -392	-177 -349	-133 -306	-90 -263	-47 -219	-4 -176	38 -133
100	160.00	bu	-332 -504	-284 -456	-236 -408	-188 -360	-140 -312	-92 -264	-44 -216	3 -168	51 -120	99 -72	147 -24
110	176.00	bu	-271 -444	-218 -391	-166 -338	-113 -285	-60 -233	-7 -180	45 -127	97 -74	150 -21	203 30	256 83
120	192.00	bu	-211 -383	-153 -325	-95 -268	-38 -210	19 -153	76 -95	134 -37	192 19	249 77	307 134	364 192
130	208.00	bu	-150 -322	-88 -260	-25 -198	36 -135	99 -73	161 -10	223 51	286 113	348 176	411 238	473 301
140	224.00	bu	-89 -262	-22 -195	44 -127	111 -60	178 6	246 73	313 140	380 208	447 275	514 342	582 409
150	240.00	bu	-29 -201	42 -129	114 -57	186 14	258 86	330 158	402 230	474 302	546 374	618 446	690 518

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 2024 input prices.

Table 10.A Estimated costs per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Clearpath	oz	4.46	9.6000	42.82	_____
Newpath	oz	4.50	6.0000	27.00	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.28	65.0000	83.20	_____
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	3.50	1.5000	5.25	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	30.85	1.0000	30.85	_____
TOTAL DIRECT EXPENSES				1011.93	_____
FIXED EXPENSES					
Implements	acre	29.38	1.0000	29.38	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				196.69	_____
TOTAL SPECIFIED EXPENSES				1208.62	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	156.88	1.0000	156.88	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	121.13	1.0000	121.13	_____
ADJUVANTS	acre	19.52	1.0000	19.52	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6099	11.41	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	31.6056	90.39	_____
REPAIR & MAINTENANCE	acre	36.93	1.0000	36.93	_____
INTEREST ON OP. CAP.	acre	30.85	1.0000	30.85	_____

TOTAL DIRECT EXPENSES				1011.93	_____
RETURNS ABOVE DIRECT EXPENSES				-51.93	_____
TOTAL FIXED EXPENSES				196.69	_____

TOTAL SPECIFIED EXPENSES				1208.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-248.62	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Clearfield	lb	83.20						3.43	86.63	86.63
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Clearpath	oz	42.82						1.77	44.59	44.59
Crop Oil Conc. (Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Newpath	oz	27.00						0.93	27.93	27.93
Crop Oil Conc. (Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	48.00						0.66	48.66	48.66
Dry Rice	bu	64.00						0.88	64.88	64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	2.25	64.84	14.99	22.96			3.28	108.32	97.26
TOTALS		802.54	90.39	36.93	51.22	0.00	30.85	1011.93	196.69	1208.62

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	88.47	38.01	20.18	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	121.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	9.77	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	8.00	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	9.35	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.49	8.50	3.80	2.60	1.91	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	290.31	255.16	142.23	128.03	141.03	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-290.31	-255.16	-142.23	-128.03	818.97	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-328.25	-583.41	-725.64	-853.67	-34.70	-51.93

Note: Cost of production estimates are based on 2024 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, 2025

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	-----dollars-----										
50	80.00	bu	-595 -791	-571 -767	-547 -743	-523 -719	-499 -695	-475 -671	-451 -647	-427 -623	-403 -599	-379 -575	-355 -551
60	96.00	bu	-534 -731	-505 -702	-476 -673	-448 -644	-419 -616	-390 -587	-361 -558	-332 -529	-304 -500	-275 -472	-246 -443
70	112.00	bu	-473 -670	-440 -636	-406 -603	-373 -569	-339 -536	-305 -502	-272 -468	-238 -435	-205 -401	-171 -368	-137 -334
80	128.00	bu	-413 -609	-374 -571	-336 -533	-298 -494	-259 -456	-221 -417	-182 -379	-144 -341	-106 -302	-67 -264	-29 -225
90	144.00	bu	-352 -549	-309 -506	-266 -462	-222 -419	-179 -376	-136 -333	-93 -290	-50 -246	-6 -203	36 -160	79 -117
100	160.00	bu	-291 -488	-243 -440	-195 -392	-147 -344	-99 -296	-51 -248	-3 -200	44 -152	92 -104	140 -56	188 -8
110	176.00	bu	-231 -427	-178 -375	-125 -322	-72 -269	-20 -216	32 -163	85 -111	138 -58	191 -5	243 47	296 100
120	192.00	bu	-170 -367	-113 -309	-55 -252	2 -194	59 -136	117 -79	174 -21	232 35	290 93	347 151	405 208
130	208.00	bu	-109 -306	-47 -244	14 -181	77 -119	139 -57	202 5	264 67	326 130	389 192	451 254	514 317
140	224.00	bu	-49 -246	17 -178	85 -111	152 -44	219 22	286 89	353 157	421 224	488 291	555 358	622 425
150	240.00	bu	11 -185	83 -113	155 -41	227 30	299 102	371 174	443 246	515 318	587 390	659 462	731 534

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 2024 input prices.

Table 11.A Estimated costs per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Clearpath	oz	4.46	9.6000	42.82	_____
Newpath	oz	4.50	6.0000	27.00	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	1.28	65.0000	83.20	_____
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	3.50	1.5000	5.25	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	30.60	1.0000	30.60	_____
TOTAL DIRECT EXPENSES				1000.44	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1199.28	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	156.88	1.0000	156.88	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	121.13	1.0000	121.13	_____
ADJUVANTS	acre	19.52	1.0000	19.52	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	30.60	1.0000	30.60	_____

TOTAL DIRECT EXPENSES				1000.44	_____
RETURNS ABOVE DIRECT EXPENSES				-40.44	_____
TOTAL FIXED EXPENSES				198.84	_____

TOTAL SPECIFIED EXPENSES				1199.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-239.28	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Clearfield	lb	83.20						3.43	86.63	86.63
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Clearpath	oz	42.82						1.77	44.59	44.59
Crop Oil Conc. (Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Newpath	oz	27.00						0.93	27.93	27.93
Crop Oil Conc. (Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	48.00						0.66	48.66	48.66
Dry Rice	bu	64.00						0.88	64.88	64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41
TOTALS		810.46	81.77	36.86	40.75	0.00	30.60	1000.44	198.84	1199.28

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	88.47	38.01	20.18	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	11.33	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	121.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.66	8.31	3.66	2.50	1.92	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	294.64	249.84	136.96	122.80	141.03	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-294.64	-249.84	-136.96	-122.80	818.97	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-332.58	-582.42	-719.38	-842.18	-23.21	-40.44

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-583 -782	-559 -758	-535 -734	-511 -710	-487 -686	-463 -662	-439 -638	-415 -614	-391 -590	-367 -566	-343 -542
60	96.00	bu	-523 -721	-494 -693	-465 -664	-436 -635	-407 -606	-379 -577	-350 -549	-321 -520	-292 -491	-263 -462	-235 -433
70	112.00	bu	-462 -661	-428 -627	-395 -594	-361 -560	-327 -526	-294 -493	-260 -459	-227 -426	-193 -392	-159 -358	-126 -325
80	128.00	bu	-401 -600	-363 -562	-324 -523	-286 -485	-248 -446	-209 -408	-171 -370	-132 -331	-94 -293	-56 -254	-17 -216
90	144.00	bu	-341 -539	-297 -496	-254 -453	-211 -410	-168 -367	-125 -323	-81 -280	-38 -237	4 -194	47 -151	90 -107
100	160.00	bu	-280 -479	-232 -431	-184 -383	-136 -335	-88 -287	-40 -239	7 -191	55 -143	103 -95	151 -47	199 0
110	176.00	bu	-219 -418	-166 -365	-114 -313	-61 -260	-8 -207	44 -154	97 -101	149 -49	202 3	255 56	308 109
120	192.00	bu	-159 -357	-101 -300	-43 -242	13 -185	71 -127	128 -69	186 -12	244 45	301 102	359 160	416 218
130	208.00	bu	-98 -297	-36 -234	26 -172	88 -110	151 -47	213 14	275 77	338 139	400 201	463 264	525 326
140	224.00	bu	-37 -236	29 -169	96 -102	163 -35	230 32	298 99	365 166	432 233	499 300	566 368	634 435
150	240.00	bu	22 -176	94 -104	166 -32	238 39	310 111	382 183	454 255	526 327	598 399	670 471	742 543

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 2024 input prices.

Table 12.A Estimated costs per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Clearpath	oz	4.46	9.6000	42.82	_____
Newpath	oz	4.50	6.0000	27.00	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Clearfield	lb	1.28	65.0000	83.20	_____
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	3.50	1.5000	5.25	_____
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	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	160.0000	48.00	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	29.59	1.0000	29.59	_____
TOTAL DIRECT EXPENSES				971.23	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1162.33	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	160.0000	960.00	_____

TOTAL INCOME				960.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	156.88	1.0000	156.88	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	121.13	1.0000	121.13	_____
ADJUVANTS	acre	19.52	1.0000	19.52	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	48.00	1.0000	48.00	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	29.59	1.0000	29.59	_____

TOTAL DIRECT EXPENSES				971.23	_____
RETURNS ABOVE DIRECT EXPENSES				-11.23	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1162.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-202.33	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Clearfield	lb	83.20						3.43	86.63	86.63
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Clearpath	oz	42.82						1.77	44.59	44.59
Crop Oil Conc. (Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Newpath	oz	27.00						0.93	27.93	27.93
Crop Oil Conc. (Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	48.00						0.66	48.66	48.66
Dry Rice	bu	64.00						0.88	64.88	64.88
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67
TOTALS		800.29	69.82	33.74	37.79	0.00	29.59	971.23	191.10	1162.33

Note: Cost of production estimates are based on 2024 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, 2025

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	960.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	88.47	38.01	20.18	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	121.13	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	48.00	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	10.89	8.23	3.59	2.45	1.88	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	275.15	247.34	134.47	120.33	138.77	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-275.15	-247.34	-134.47	-120.33	821.23	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-313.09	-560.43	-694.90	-815.23	6.00	-11.23

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	80.00	bu	-554 -745	-530 -721	-506 -697	-482 -673	-458 -649	-434 -625	-410 -601	-386 -577	-362 -553	-338 -529	-314 -505
60	96.00	bu	-493 -684	-465 -656	-436 -627	-407 -598	-378 -569	-349 -540	-321 -512	-292 -483	-263 -454	-234 -425	-205 -396
70	112.00	bu	-433 -624	-399 -590	-365 -557	-332 -523	-298 -489	-265 -456	-231 -422	-197 -389	-164 -355	-130 -321	-97 -288
80	128.00	bu	-372 -563	-334 -525	-295 -486	-257 -448	-218 -410	-180 -371	-142 -333	-103 -294	-65 -256	-26 -218	11 -179
90	144.00	bu	-311 -502	-268 -459	-225 -416	-182 -373	-139 -330	-95 -286	-52 -243	-9 -200	33 -157	76 -114	120 -70
100	160.00	bu	-251 -442	-203 -394	-155 -346	-107 -298	-59 -250	-11 -202	36 -154	84 -106	132 -58	180 -10	228 37
110	176.00	bu	-190 -381	-137 -328	-84 -276	-32 -223	20 -170	73 -117	126 -64	179 -12	231 40	284 93	337 146
120	192.00	bu	-129 -321	-72 -263	-14 -205	42 -148	100 -90	158 -33	215 24	273 82	330 139	388 197	446 254
130	208.00	bu	-69 -260	-6 -197	55 -135	117 -73	180 -10	242 51	305 114	367 176	429 238	492 301	554 363
140	224.00	bu	-8 -199	58 -132	125 -65	192 1	260 69	327 136	394 203	461 270	528 337	596 405	663 472
150	240.00	bu	52 -139	124 -67	196 4	268 76	340 148	412 220	484 292	556 364	628 436	700 508	772 580

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 2024 input prices.

Table 13.A Estimated costs per acre
 Fullpage hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	2.1000	15.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Preface	oz	0.55	11.0000	6.05	_____
Facet L	pt	17.36	2.0000	34.72	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	14.4000	17.14	_____
Warrior II 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	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.6209	21.78	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	6.02	1.0000	6.02	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	32.86	1.0000	32.86	_____
TOTAL DIRECT EXPENSES				1066.18	_____
FIXED EXPENSES					
Implements	acre	30.08	1.0000	30.08	_____
Tractors	acre	46.61	1.0000	46.61	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				166.96	_____
TOTAL SPECIFIED EXPENSES				1233.14	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.43	1.0000	53.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	127.83	1.0000	127.83	_____
INSECTICIDES	acre	18.95	1.0000	18.95	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6575	12.29	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	36.9100	105.55	_____
REPAIR & MAINTENANCE	acre	37.35	1.0000	37.35	_____
INTEREST ON OP. CAP.	acre	32.86	1.0000	32.86	_____

TOTAL DIRECT EXPENSES				1066.18	_____
RETURNS ABOVE DIRECT EXPENSES				13.82	_____
TOTAL FIXED EXPENSES				166.96	_____

TOTAL SPECIFIED EXPENSES				1233.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-153.14	_____

Note: Cost of production estimates are based on 2024 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, 2025

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 II 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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Fullpage Hyb Tr	lb	145.82						6.02	151.84	151.84
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Preface	oz	2.75						0.11	2.86	2.86
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	13.50						0.28	13.78	13.78
Tenchu SG	oz	17.14						0.35	17.49	17.49
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53
TOTALS		827.88	105.55	37.35	62.54	0.00	32.86	1066.18	166.96	1233.14

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	15.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	83.12	14.31	20.18	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	18.95	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	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	7.71	8.61	8.61	10.15	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	8.51	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	9.52	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	13.74	8.18	4.00	2.28	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	347.05	245.81	149.47	112.39	156.29	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-347.05	-245.81	-149.47	-112.39	923.71	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-384.99	-630.80	-780.27	-892.66	31.05	13.82

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT YIELD UNIT			dollars										
50	90.00	bu	-597 -764	-570 -737	-543 -710	-516 -683	-489 -656	-462 -629	-435 -602	-408 -575	-381 -548	-354 -521	-327 -494
60	108.00	bu	-529 -696	-496 -663	-464 -631	-431 -598	-399 -566	-367 -534	-334 -501	-302 -469	-269 -436	-237 -404	-205 -372
70	126.00	bu	-460 -627	-423 -590	-385 -552	-347 -514	-309 -476	-271 -438	-234 -401	-196 -363	-158 -325	-120 -287	-82 -249
80	144.00	bu	-392 -559	-349 -516	-306 -473	-263 -429	-219 -386	-176 -343	-133 -300	-90 -257	-47 -213	-3 -170	39 -127
90	162.00	bu	-324 -491	-275 -442	-227 -394	-178 -345	-130 -296	-81 -248	-32 -199	15 -151	64 -102	112 -53	161 -5
100	180.00	bu	-256 -423	-202 -369	-148 -315	-94 -261	-40 -207	13 -153	67 -99	121 -45	175 8	229 62	283 116
110	198.00	bu	-187 -354	-128 -295	-69 -236	-9 -176	49 -117	109 -57	168 1	227 60	287 120	346 179	406 239
120	216.00	bu	-119 -286	-54 -221	9 -157	74 -92	139 -27	204 37	269 102	333 166	398 231	463 296	528 361
130	234.00	bu	-51 -218	18 -148	88 -78	159 -7	229 62	299 132	369 202	439 272	510 343	580 413	650 483
140	252.00	bu	16 -150	92 -74	167 0	243 76	319 152	394 227	470 303	545 378	621 454	697 530	772 605
150	270.00	bu	84 -82	165 -1	246 79	327 160	408 241	489 322	570 403	651 484	732 565	813 646	894 727

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 2024 input prices.

Table 14.A Estimated costs per acre
 Fullpage hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Preface	oz	0.55	11.0000	6.05	_____
Facet L	pt	17.36	2.0000	34.72	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	31.70	1.0000	31.70	_____
TOTAL DIRECT EXPENSES				1022.25	_____
FIXED EXPENSES					
Implements	acre	29.38	1.0000	29.38	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				196.69	_____
TOTAL SPECIFIED EXPENSES				1218.94	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	127.83	1.0000	127.83	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6099	11.41	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	31.6056	90.39	_____
REPAIR & MAINTENANCE	acre	36.93	1.0000	36.93	_____
INTEREST ON OP. CAP.	acre	31.70	1.0000	31.70	_____

TOTAL DIRECT EXPENSES				1022.25	_____
RETURNS ABOVE DIRECT EXPENSES				57.75	_____
TOTAL FIXED EXPENSES				196.69	_____

TOTAL SPECIFIED EXPENSES				1218.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-138.94	_____

Note: Cost of production estimates are based on 2024 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, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	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	0.08	
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		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	
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		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 II 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	
Grain Cart Rice	700 bu	MFWD 300	0.055	0.20	Aug		0.01	0.01	0.01	
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	
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 2024 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, 2025

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'		4.12	2.62	3.31				0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38				0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05							0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76							0.32	6.08		6.08
2,4-D Amine 4	pt	4.46							0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50				0.43	10.91	13.59	24.50
Rice Fullpage Hyb Tr	lb	145.82							6.02	151.84		151.84
Roller/Cultipacker	30'		2.20	0.86	1.77				0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05							0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84							0.16	4.00		4.00
Command 3ME	pt	19.43							0.80	20.23		20.23
Sharpen	oz	22.38							0.92	23.30		23.30
MSO	pt	1.75							0.07	1.82		1.82
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	8.05							0.33	8.38		8.38
Preface	oz	2.75							0.11	2.86		2.86
Facet L	pt	34.72							1.43	36.15		36.15
Crop Oil Conc. (Pet.)	pt	5.72							0.24	5.96		5.96
App Fert by Air	cwt	13.60							0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20							0.39	11.59		11.59
DAP	cwt	18.34							0.63	18.97		18.97
Rice Consultant	acre	8.00							0.28	8.28		8.28
App Fert by Air	cwt	36.31							1.25	37.56		37.56
Urea, Solid (46% N)	cwt	69.37							2.38	71.75		71.75
NBPT	pt	14.40							0.50	14.90		14.90
App by Air (10 gal)	appl	9.50							0.33	9.83		9.83
Preface	oz	3.30							0.11	3.41		3.41
Crop Oil Conc. (Pet.)	pt	5.72							0.20	5.92		5.92
Aim	oz	11.01							0.38	11.39		11.39
Rice Management												
RICE MGT. LABOR	hour				0.91				0.03	0.94		0.94
App by Air (5 gal)	appl	4.03							0.11	4.14		4.14
Clincher SF	oz	20.18							0.55	20.73		20.73
MSO	pt	3.50							0.10	3.60		3.60
Rice Management												
RICE MGT. LABOR	hour				1.81				0.05	1.86		1.86
App Fert by Air	cwt	29.51							0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38							1.55	57.93		57.93
App Fert by Air	cwt	14.96							0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58							0.59	29.17		29.17
Rice Management												
RICE MGT. LABOR	hour				1.81				0.04	1.85		1.85
App by Air (3 gal)	appl	7.50							0.15	7.65		7.65
Tenchu SG	oz	9.52							0.20	9.72		9.72
App by Air (3 gal)	appl	2.25							0.05	2.30		2.30
Warrior II 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		6.88	8.84	3.91				0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		0.49	0.29	0.40				0.02	1.20	1.39	2.59
Handling & Storage												
HAND LABOR	hour				2.27				0.03	2.30		2.30
Haul Rice	bu	54.00							0.74	54.74		54.74
Dry Rice	bu	72.00							0.99	72.99		72.99
Disk Heavy	28'		6.68	5.05	5.38				0.12	17.23	22.81	40.04
Flood Irr.	acre	2.25	64.84	14.99	22.96				3.28	108.32	97.26	205.58
TOTALS			812.01	90.39	36.93	51.22	0.00	31.70	1022.25	196.69	1218.94	

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	83.12	14.31	20.18	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	11.33	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	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	9.77	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	8.00	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	9.35	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	13.45	7.95	3.80	1.85	2.10	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	339.79	238.54	142.23	91.30	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-339.79	-238.54	-142.23	-91.30	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-377.73	-616.27	-758.50	-849.80	74.98	57.75

Note: Cost of production estimates are based on 2024 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, 2025

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT YIELD UNIT			-----dollars-----										
50	90.00	bu	-553 -750	-526 -723	-499 -696	-472 -669	-445 -642	-418 -615	-391 -588	-364 -561	-337 -534	-310 -507	-283 -480
60	108.00	bu	-485 -681	-452 -649	-420 -617	-387 -584	-355 -552	-323 -519	-290 -487	-258 -455	-225 -422	-193 -390	-161 -357
70	126.00	bu	-416 -613	-379 -575	-341 -538	-303 -500	-265 -462	-227 -424	-190 -386	-152 -349	-114 -311	-76 -273	-38 -235
80	144.00	bu	-348 -545	-305 -502	-262 -458	-219 -415	-175 -372	-132 -329	-89 -286	-46 -242	-3 -199	40 -156	83 -113
90	162.00	bu	-280 -477	-231 -428	-183 -379	-134 -331	-86 -282	-37 -234	11 -185	59 -136	108 -88	156 -39	205 8
100	180.00	bu	-212 -408	-158 -354	-104 -300	-50 -246	3 -192	57 -138	111 -84	165 -30	219 23	273 77	327 131
110	198.00	bu	-144 -340	-84 -281	-25 -221	34 -162	93 -103	152 -43	212 15	271 75	331 134	390 193	449 253
120	216.00	bu	-75 -272	-10 -207	53 -142	118 -78	183 -13	248 51	313 116	377 181	442 245	507 310	572 375
130	234.00	bu	-7 -204	62 -134	132 -63	203 6	273 76	343 146	413 216	483 287	554 357	624 427	694 497
140	252.00	bu	60 -136	136 -60	211 15	287 90	363 166	438 241	514 317	589 393	665 468	741 544	816 619
150	270.00	bu	128 -67	209 13	290 94	371 175	452 256	533 337	614 418	695 499	776 580	857 661	938 742

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 2024 input prices.

Table 15.A Estimated costs per acre
 Fullpage hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Preface	oz	0.55	11.0000	6.05	_____
Facet L	pt	17.36	2.0000	34.72	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.					
	acre	31.45	1.0000	31.45	_____
TOTAL DIRECT EXPENSES				1010.76	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1209.60	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	127.83	1.0000	127.83	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	31.45	1.0000	31.45	_____

TOTAL DIRECT EXPENSES				1010.76	_____
RETURNS ABOVE DIRECT EXPENSES				69.24	_____
TOTAL FIXED EXPENSES				198.84	_____

TOTAL SPECIFIED EXPENSES				1209.60	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-129.60	_____

Note: Cost of production estimates are based on 2024 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, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	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	0.08
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		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
Rice Fullpage Hyb Tr	lb					23.0000			
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		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 II 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
Grain Cart Rice	700 bu	MFWD 300	0.055	0.20	Aug		0.01	0.01	0.01
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
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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Fullpage Hyb Tr	lb	145.82						6.02	151.84	151.84
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Preface	oz	2.75						0.11	2.86	2.86
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41
TOTALS		819.93	81.77	36.86	40.75	0.00	31.45	1010.76	198.84	1209.60

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	83.12	14.31	20.18	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	11.33	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	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	13.62	7.76	3.66	1.75	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	344.12	233.22	136.96	86.07	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-344.12	-233.22	-136.96	-86.07	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-382.06	-615.28	-752.24	-838.31	86.47	69.24

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-541 -740	-514 -713	-487 -686	-460 -659	-433 -632	-406 -605	-379 -578	-352 -551	-325 -524	-298 -497	-271 -470
60	108.00	bu	-473 -672	-441 -640	-408 -607	-376 -575	-344 -542	-311 -510	-279 -478	-246 -445	-214 -413	-182 -380	-149 -348
70	126.00	bu	-405 -604	-367 -566	-329 -528	-292 -490	-254 -453	-216 -415	-178 -377	-140 -339	-103 -301	-65 -264	-27 -226
80	144.00	bu	-337 -536	-294 -492	-250 -449	-207 -406	-164 -363	-121 -320	-78 -276	-34 -233	8 -190	51 -147	94 -104
90	162.00	bu	-268 -467	-220 -419	-171 -370	-123 -322	-74 -273	-25 -224	22 -176	71 -127	119 -79	168 -30	217 18
100	180.00	bu	-200 -399	-146 -345	-92 -291	-38 -237	15 -183	69 -129	123 -75	177 -21	231 32	285 86	339 140
110	198.00	bu	-132 -331	-73 -271	-13 -212	45 -153	105 -93	164 -34	223 25	283 84	342 143	402 203	461 262
120	216.00	bu	-64 -263	0 -198	65 -133	130 -68	194 -3	259 60	324 125	389 190	454 255	518 320	583 384
130	234.00	bu	3 -194	74 -124	144 -54	214 15	284 85	354 156	425 226	495 296	565 366	635 436	705 507
140	252.00	bu	72 -126	147 -51	223 24	298 100	374 175	450 251	525 326	601 402	676 478	752 553	828 629
150	270.00	bu	140 -58	221 22	302 103	383 184	464 265	545 346	626 427	707 508	788 589	869 670	950 751

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 2024 input prices.

Table 16.A Estimated costs per acre
 Fullpage hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Preface	oz	0.55	11.0000	6.05	_____
Facet L	pt	17.36	2.0000	34.72	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	30.44	1.0000	30.44	_____
TOTAL DIRECT EXPENSES				981.55	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1172.65	_____

Note: Cost of production estimates are based on 2024 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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	127.83	1.0000	127.83	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	174.00	1.0000	174.00	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	30.44	1.0000	30.44	_____

TOTAL DIRECT EXPENSES				981.55	_____
RETURNS ABOVE DIRECT EXPENSES				98.45	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1172.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-92.65	_____

Note: Cost of production estimates are based on 2024 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, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	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	0.08	
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		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	
Rice Fullpage Hyb Tr	lb					23.0000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		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 II 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	
Grain Cart Rice	700 bu	MFWD 300	0.055	0.20	Aug		0.01	0.01	0.01	
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	0.13	
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 2024 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, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Fullpage Hyb Tr	lb	145.82						6.02	151.84	151.84
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
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	8.05						0.33	8.38	8.38
Preface	oz	2.75						0.11	2.86	2.86
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67
TOTALS		809.76	69.82	33.74	37.79	0.00	30.44	981.55	191.10	1172.65

Note: Cost of production estimates are based on 2024 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, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	83.12	14.31	20.18	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	11.33	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	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	12.85	7.68	3.59	1.70	2.07	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	324.63	230.72	134.47	83.60	152.96	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-324.63	-230.72	-134.47	-83.60	927.04	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-362.57	-593.29	-727.76	-811.36	115.68	98.45

Note: Cost of production estimates are based on 2024 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, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-512 -703	-485 -676	-458 -649	-431 -622	-404 -595	-377 -568	-350 -541	-323 -514	-296 -487	-269 -460	-242 -433
60	108.00	bu	-444 -635	-412 -603	-379 -570	-347 -538	-314 -505	-282 -473	-250 -441	-217 -408	-185 -376	-152 -343	-120 -311
70	126.00	bu	-376 -567	-338 -529	-300 -491	-262 -453	-225 -416	-187 -378	-149 -340	-111 -302	-73 -264	-36 -227	1 -189
80	144.00	bu	-308 -499	-264 -455	-221 -412	-178 -369	-135 -326	-92 -283	-48 -239	-5 -196	37 -153	80 -110	123 -67
90	162.00	bu	-239 -430	-191 -382	-142 -333	-93 -285	-45 -236	3 -187	51 -139	100 -90	149 -42	197 6	246 55
100	180.00	bu	-171 -362	-117 -308	-63 -254	-9 -200	44 -146	98 -92	152 -38	206 15	260 69	314 123	368 177
110	198.00	bu	-103 -294	-43 -235	15 -175	74 -116	134 -56	193 2	253 61	312 121	371 180	431 240	490 299
120	216.00	bu	-35 -226	29 -161	94 -96	159 -31	224 33	288 97	353 162	418 227	483 292	548 357	612 421
130	234.00	bu	33 -157	103 -87	173 -17	243 52	313 122	384 193	454 263	524 333	594 403	664 473	735 544
140	252.00	bu	101 -89	176 -14	252 61	328 137	403 212	479 288	554 363	630 439	706 515	781 590	857 666
150	270.00	bu	169 -21	250 59	331 140	412 221	493 302	574 383	655 464	736 545	817 626	898 707	979 788

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 2024 input prices.

Table 17.A Estimated costs per acre
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	2.1000	15.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
HighCard	oz	1.14	15.5000	17.67	_____
Facet L	pt	17.36	2.0000	34.72	_____
Preface	oz	0.55	6.0000	3.30	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	14.4000	17.14	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Max-Ace	lb	8.89	26.7500	237.81	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.6209	21.78	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	6.02	1.0000	6.02	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	36.16	1.0000	36.16	_____
TOTAL DIRECT EXPENSES				1149.44	_____
FIXED EXPENSES					
Implements	acre	30.08	1.0000	30.08	_____
Tractors	acre	46.61	1.0000	46.61	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				166.96	_____
TOTAL SPECIFIED EXPENSES				1316.40	_____

Note: Cost of production estimates are based on 2024 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
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.43	1.0000	53.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	142.75	1.0000	142.75	_____
INSECTICIDES	acre	18.95	1.0000	18.95	_____
SEED/PLANTS	acre	239.04	1.0000	239.04	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6575	12.29	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	36.9100	105.55	_____
REPAIR & MAINTENANCE	acre	37.35	1.0000	37.35	_____
INTEREST ON OP. CAP.	acre	36.16	1.0000	36.16	_____

TOTAL DIRECT EXPENSES				1149.44	_____
RETURNS ABOVE DIRECT EXPENSES				-69.44	_____
TOTAL FIXED EXPENSES				166.96	_____

TOTAL SPECIFIED EXPENSES				1316.40	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-236.40	_____

Note: Cost of production estimates are based on 2024 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
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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 Max-Ace	lb					22.5000				
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 Max-Ace	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
HighCard	oz					15.5000				
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 II 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 2024 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
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Max-Ace	lb	200.03						8.25	208.28	208.28
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Max-Ace	lb	37.78						1.56	39.34	39.34
Rice Seed Trt/Insect	lbseed	1.23						0.05	1.28	1.28
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
HighCard	oz	17.67						0.73	18.40	18.40
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	13.50						0.28	13.78	13.78
Tenchu SG	oz	17.14						0.35	17.49	17.49
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53
TOTALS		907.84	105.55	37.35	62.54	0.00	36.16	1149.44	166.96	1316.40

Note: Cost of production estimates are based on 2024 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
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	15.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	98.04	14.31	20.18	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	18.95	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	239.04	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	7.71	8.61	8.61	10.15	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	8.51	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	9.52	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	17.04	8.18	4.00	2.28	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	430.31	245.81	149.47	112.39	156.29	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-430.31	-245.81	-149.47	-112.39	923.71	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-468.25	-714.06	-863.53	-975.92	-52.21	-69.44

Note: Cost of production estimates are based on 2024 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
 Max Ace hybrid contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			PRODUCT PRICE										
			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-680 -847	-653 -820	-626 -793	-599 -766	-572 -739	-545 -712	-518 -685	-491 -658	-464 -631	-437 -604	-410 -577
60	108.00	bu	-612 -779	-579 -746	-547 -714	-515 -682	-482 -649	-450 -617	-417 -584	-385 -552	-353 -520	-320 -487	-288 -455
70	126.00	bu	-544 -711	-506 -673	-468 -635	-430 -597	-392 -559	-355 -522	-317 -484	-279 -446	-241 -408	-203 -370	-166 -333
80	144.00	bu	-475 -642	-432 -599	-389 -556	-346 -513	-303 -470	-259 -426	-216 -383	-173 -340	-130 -297	-87 -254	-43 -210
90	162.00	bu	-407 -574	-359 -526	-310 -477	-261 -428	-213 -380	-164 -331	-116 -283	-67 -234	-18 -185	29 -137	78 -88
100	180.00	bu	-339 -506	-285 -452	-231 -398	-177 -344	-123 -290	-69 -236	-15 -182	38 -128	92 -74	146 -20	200 33
110	198.00	bu	-271 -438	-211 -378	-152 -319	-93 -259	-33 -200	25 -141	85 -81	144 -22	203 37	263 96	322 155
120	216.00	bu	-202 -369	-138 -305	-73 -240	-8 -175	56 -110	121 -45	185 18	250 83	315 148	380 213	445 278
130	234.00	bu	-134 -301	-64 -231	5 -161	75 -91	146 -20	216 49	286 119	356 189	426 259	497 330	567 400
140	252.00	bu	-66 -233	9 -157	84 -82	160 -6	235 68	311 144	387 220	462 295	538 371	613 446	689 522
150	270.00	bu	1 -165	82 -84	163 -3	244 77	325 158	406 239	487 320	568 401	649 482	730 563	811 644

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 2024 input prices.

Table 18.A Estimated costs per acre
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
HighCard	oz	1.14	15.5000	17.67	_____
Facet L	pt	17.36	2.0000	34.72	_____
Preface	oz	0.55	6.0000	3.30	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Max-Ace	lb	8.89	26.7500	237.81	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00	_____
TOTAL DIRECT EXPENSES				1105.51	_____
FIXED EXPENSES					
Implements	acre	29.38	1.0000	29.38	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				196.69	_____
TOTAL SPECIFIED EXPENSES				1302.20	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	142.75	1.0000	142.75	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	239.04	1.0000	239.04	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6099	11.41	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	31.6056	90.39	_____
REPAIR & MAINTENANCE	acre	36.93	1.0000	36.93	_____
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00	_____

TOTAL DIRECT EXPENSES				1105.51	_____
RETURNS ABOVE DIRECT EXPENSES				-25.51	_____
TOTAL FIXED EXPENSES				196.69	_____

TOTAL SPECIFIED EXPENSES				1302.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-222.20	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	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	0.08	
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		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	
Rice Seed Max-Ace	lb					22.5000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		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 Max-Ace	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
HighCard	oz					15.5000				
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 II 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	
Grain Cart Rice	700 bu	MFWD 300	0.055	0.20	Aug		0.01	0.01	0.01	
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	
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 2024 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
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
Rice Seed Max-Ace	lb	200.03						8.25	208.28		208.28
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
MSO	pt	1.75						0.07	1.82		1.82
Class Act NG	pt	2.50						0.10	2.60		2.60
Seed Levees											
Rice Seed Max-Ace	lb	37.78						1.56	39.34		39.34
Rice Seed Trt/Insect	lbseed	1.23						0.05	1.28		1.28
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
HighCard	oz	17.67						0.73	18.40		18.40
Facet L	pt	34.72						1.43	36.15		36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96		5.96
App Fert by Air	cwt	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
Rice Consultant	acre	8.00						0.28	8.28		8.28
App Fert by Air	cwt	36.31						1.25	37.56		37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75		71.75
NBPT	pt	14.40						0.50	14.90		14.90
App by Air (10 gal)	appl	9.50						0.33	9.83		9.83
Preface	oz	3.30						0.11	3.41		3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92		5.92
Aim	oz	11.01						0.38	11.39		11.39
Rice Management											
RICE MGT. LABOR	hour				0.91			0.03	0.94		0.94
App by Air (5 gal)	appl	4.03						0.11	4.14		4.14
Clincher SF	oz	20.18						0.55	20.73		20.73
MSO	pt	3.50						0.10	3.60		3.60
Rice Management											
RICE MGT. LABOR	hour				1.81			0.05	1.86		1.86
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				1.81			0.04	1.85		1.85
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	54.00						0.74	54.74		54.74
Dry Rice	bu	72.00						0.99	72.99		72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	2.25	64.84	14.99	22.96			3.28	108.32	97.26	205.58
TOTALS		891.97	90.39	36.93	51.22	0.00	35.00	1105.51	196.69	1302.20	

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	98.04	14.31	20.18	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	239.04	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	9.77	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	8.00	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	9.35	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	16.75	7.95	3.80	1.85	2.10	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	423.05	238.54	142.23	91.30	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-423.05	-238.54	-142.23	-91.30	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-460.99	-699.53	-841.76	-933.06	-8.28	-25.51

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-636 -833	-609 -806	-582 -779	-555 -752	-528 -725	-501 -698	-474 -671	-447 -644	-420 -617	-393 -590	-366 -563
60	108.00	bu	-568 -765	-536 -732	-503 -700	-471 -667	-438 -635	-406 -603	-374 -570	-341 -538	-309 -505	-276 -473	-244 -441
70	126.00	bu	-500 -696	-462 -659	-424 -621	-386 -583	-348 -545	-311 -507	-273 -470	-235 -432	-197 -394	-159 -356	-122 -318
80	144.00	bu	-431 -628	-388 -585	-345 -542	-302 -499	-259 -455	-215 -412	-172 -369	-129 -326	-86 -283	-43 -239	0 -196
90	162.00	bu	-363 -560	-315 -511	-266 -463	-217 -414	-169 -366	-120 -317	-72 -268	-23 -220	25 -171	73 -123	122 -74
100	180.00	bu	-295 -492	-241 -438	-187 -384	-133 -330	-79 -276	-25 -222	28 -168	82 -114	136 -60	190 -6	244 47
110	198.00	bu	-227 -423	-167 -364	-108 -305	-49 -245	10 -186	69 -126	129 -67	188 -8	247 51	307 110	366 170
120	216.00	bu	-159 -355	-94 -290	-29 -226	35 -161	100 -96	164 -31	229 33	294 97	359 162	424 227	488 292
130	234.00	bu	-90 -287	-20 -217	49 -147	119 -76	189 -6	260 63	330 133	400 203	470 274	540 344	611 414
140	252.00	bu	-22 -219	52 -143	128 -68	204 7	279 83	355 158	430 234	506 309	582 385	657 461	733 536
150	270.00	bu	45 -151	126 -70	207 10	288 91	369 172	450 253	531 334	612 415	693 496	774 577	855 658

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 2024 input prices.

Table 19.A Estimated costs per acre
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
HighCard	oz	1.14	15.5000	17.67	_____
Facet L	pt	17.36	2.0000	34.72	_____
Preface	oz	0.55	6.0000	3.30	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Seed Max-Ace	lb	8.89	26.7500	237.81	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	34.75	1.0000	34.75	_____
TOTAL DIRECT EXPENSES				1094.02	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1292.86	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	142.75	1.0000	142.75	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	239.04	1.0000	239.04	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	34.75	1.0000	34.75	_____

TOTAL DIRECT EXPENSES				1094.02	_____
RETURNS ABOVE DIRECT EXPENSES				-14.02	_____
TOTAL FIXED EXPENSES				198.84	_____

TOTAL SPECIFIED EXPENSES				1292.86	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-212.86	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	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	0.08	
Harrow - Folding	40'	MFWD 300	0.038	1.00	Oct		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	
Rice Seed Max-Ace	lb					22.5000				
Roller/Cultipacker	30'	MFWD 300	0.049	1.00	Apr		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 Max-Ace	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
HighCard	oz					15.5000				
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 II 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	
Grain Cart Rice	700 bu	MFWD 300	0.055	0.20	Aug		0.01	0.01	0.01	
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	
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 2024 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
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Max-Ace	lb	200.03						8.25	208.28	208.28
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Max-Ace	lb	37.78						1.56	39.34	39.34
Rice Seed Trt/Insect	lbseed	1.23						0.05	1.28	1.28
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
HighCard	oz	17.67						0.73	18.40	18.40
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41
TOTALS		899.89	81.77	36.86	40.75	0.00	34.75	1094.02	198.84	1292.86

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	98.04	14.31	20.18	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	11.33	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	239.04	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	16.92	7.76	3.66	1.75	2.11	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	427.38	233.22	136.96	86.07	155.22	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-427.38	-233.22	-136.96	-86.07	924.78	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-465.32	-698.54	-835.50	-921.57	3.21	-14.02

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT YIELD UNIT			dollars										
50	90.00	bu	-625 -823	-598 -796	-571 -769	-544 -742	-517 -715	-490 -688	-463 -661	-436 -634	-409 -607	-382 -580	-355 -553
60	108.00	bu	-556 -755	-524 -723	-492 -690	-459 -658	-427 -626	-394 -593	-362 -561	-330 -528	-297 -496	-265 -464	-232 -431
70	126.00	bu	-488 -687	-450 -649	-413 -611	-375 -574	-337 -536	-299 -498	-261 -460	-224 -422	-186 -385	-148 -347	-110 -309
80	144.00	bu	-420 -619	-377 -576	-334 -532	-290 -489	-247 -446	-204 -403	-161 -360	-118 -316	-74 -273	-31 -230	11 -187
90	162.00	bu	-352 -551	-303 -502	-255 -453	-206 -405	-157 -356	-109 -308	-60 -259	-12 -210	36 -162	85 -113	133 -65
100	180.00	bu	-284 -482	-230 -428	-176 -374	-122 -320	-68 -266	-14 -212	39 -158	93 -104	147 -50	201 3	255 57
110	198.00	bu	-215 -414	-156 -355	-96 -295	-37 -236	21 -177	81 -117	140 -58	200 1	259 60	318 119	378 179
120	216.00	bu	-147 -346	-82 -281	-17 -216	46 -152	111 -87	176 -22	241 42	306 107	370 171	435 236	500 301
130	234.00	bu	-79 -278	-9 -207	61 -137	131 -67	201 2	271 72	341 143	412 213	482 283	552 353	622 423
140	252.00	bu	-11 -209	64 -134	140 -58	215 16	291 92	366 168	442 243	518 319	593 394	669 470	744 546
150	270.00	bu	57 -141	138 -60	219 20	300 101	381 182	462 263	543 344	624 425	705 506	786 587	867 668

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 2024 input prices.

Table 20.A Estimated costs per acre
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.5000	28.18	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.9400	154.32	_____
NBPT	pt	18.00	0.8000	14.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
HighCard	oz	1.14	15.5000	17.67	_____
Facet L	pt	17.36	2.0000	34.72	_____
Preface	oz	0.55	6.0000	3.30	_____
Aim	oz	7.34	1.5000	11.01	_____
Clincher SF	oz	2.69	7.5000	20.18	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Max-Ace	lb	8.89	26.7500	237.81	_____
Rice Seed Trt/Insect	lbseed	0.29	4.2500	1.23	_____
ADJUVANTS					
MSO	pt	3.50	1.5000	5.25	_____
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	13.60	6.9400	94.38	_____
HAULING					
Haul Rice	bu	0.30	180.0000	54.00	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	33.74	1.0000	33.74	_____
TOTAL DIRECT EXPENSES				1064.81	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1255.91	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	47.43	1.0000	47.43	_____
FERTILIZERS	acre	198.27	1.0000	198.27	_____
HERBICIDES	acre	142.75	1.0000	142.75	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	239.04	1.0000	239.04	_____
ADJUVANTS	acre	19.19	1.0000	19.19	_____
CUSTOM FERTILIZE	acre	94.38	1.0000	94.38	_____
HAULING	acre	54.00	1.0000	54.00	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	33.74	1.0000	33.74	_____

TOTAL DIRECT EXPENSES				1064.81	_____
RETURNS ABOVE DIRECT EXPENSES				15.19	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1255.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-175.91	_____

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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 Max-Ace	lb					22.5000				
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 Max-Ace	lb					4.2500				
Rice Seed Trt/Insect	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
HighCard	oz					15.5000				
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 II 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 2024 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
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Max-Ace	lb	200.03						8.25	208.28	208.28
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Max-Ace	lb	37.78						1.56	39.34	39.34
Rice Seed Trt/Insect	lbseed	1.23						0.05	1.28	1.28
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
HighCard	oz	17.67						0.73	18.40	18.40
Facet L	pt	34.72						1.43	36.15	36.15
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	36.31						1.25	37.56	37.56
Urea, Solid (46% N)	cwt	69.37						2.38	71.75	71.75
NBPT	pt	14.40						0.50	14.90	14.90
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Preface	oz	3.30						0.11	3.41	3.41
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92	5.92
Aim	oz	11.01						0.38	11.39	11.39
Rice Management										
RICE MGT. LABOR	hour				0.91			0.03	0.94	0.94
App by Air (5 gal)	appl	4.03						0.11	4.14	4.14
Clincher SF	oz	20.18						0.55	20.73	20.73
MSO	pt	3.50						0.10	3.60	3.60
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	54.00						0.74	54.74	54.74
Dry Rice	bu	72.00						0.99	72.99	72.99
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67
TOTALS		889.72	69.82	33.74	37.79	0.00	33.74	1064.81	191.10	1255.91

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	9.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113.31	56.38	28.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	98.04	14.31	20.18	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	239.04	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	3.50	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.91	29.51	14.96	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	54.00	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	16.15	7.68	3.59	1.70	2.07	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	407.89	230.72	134.47	83.60	152.96	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-407.89	-230.72	-134.47	-83.60	927.04	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-445.83	-676.55	-811.02	-894.62	32.42	15.19

Note: Cost of production estimates are based on 2024 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
 Max-Ace hybrid straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	90.00	bu	-595 -787	-568 -760	-541 -733	-514 -706	-487 -679	-460 -652	-433 -625	-406 -598	-379 -571	-352 -544	-325 -517
60	108.00	bu	-527 -718	-495 -686	-462 -654	-430 -621	-398 -589	-365 -556	-333 -524	-300 -492	-268 -459	-236 -427	-203 -394
70	126.00	bu	-459 -650	-421 -612	-383 -574	-346 -537	-308 -499	-270 -461	-232 -423	-194 -385	-157 -348	-119 -310	-81 -272
80	144.00	bu	-391 -582	-348 -539	-304 -495	-261 -452	-218 -409	-175 -366	-132 -323	-88 -279	-45 -236	-2 -193	40 -150
90	162.00	bu	-323 -514	-274 -465	-225 -416	-177 -368	-128 -319	-80 -271	-31 -222	17 -173	65 -125	114 -76	162 -28
100	180.00	bu	-254 -445	-200 -391	-146 -337	-92 -283	-38 -229	15 -175	69 -121	123 -67	177 -13	231 40	285 94
110	198.00	bu	-186 -377	-127 -318	-67 -258	-8 -199	51 -140	110 -80	169 -21	229 38	288 97	348 156	407 216
120	216.00	bu	-118 -309	-53 -244	11 -179	76 -115	140 -50	205 14	270 79	335 144	400 208	464 273	529 338
130	234.00	bu	-50 -241	20 -171	90 -100	160 -30	230 39	300 109	371 179	441 250	511 320	581 390	651 460
140	252.00	bu	18 -173	93 -97	169 -21	244 53	320 129	396 204	471 280	547 356	622 431	698 507	774 582
150	270.00	bu	86 -104	167 -23	248 57	329 138	410 219	491 300	572 381	653 462	734 543	815 624	896 705

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 2024 input prices.

Table 21.A Estimated costs per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Provisia	oz	0.92	31.0000	28.52	_____
Aim	oz	7.34	1.0000	7.34	_____
Permit	oz	23.42	0.7500	17.57	_____
Regiment	oz	48.18	0.2500	12.05	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.32	77.0000	101.64	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
Class Act NG	pt	5.00	0.5000	2.50	_____
MSO	pt	3.50	0.5000	1.75	_____
Crop Oil Conc. (Pet.)	pt	2.86	4.0000	11.44	_____
Dyne-A-Pak	pt	4.17	0.2500	1.04	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	156.0000	46.80	_____
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	18.69	0.5475	10.23	_____
Harvesters	hour	18.69	0.1269	2.37	_____
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	18.69	0.4947	9.25	_____
DIESEL FUEL					
Tractors	gal	2.86	7.6209	21.78	_____
Harvesters	gal	2.86	2.7765	7.94	_____
Flood Irr.	gal	2.86	26.8827	76.89	_____
REPAIR & MAINTENANCE					
Implements	acre	10.95	1.0000	10.95	_____
Tractors	acre	6.02	1.0000	6.02	_____
Harvesters	acre	7.43	1.0000	7.43	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	30.76	1.0000	30.76	_____
TOTAL DIRECT EXPENSES				1013.30	_____
FIXED EXPENSES					
Implements	acre	30.81	1.0000	30.81	_____
Tractors	acre	46.61	1.0000	46.61	_____
Harvesters	acre	35.58	1.0000	35.58	_____
Flood Irr.	acre	59.44	1.0000	59.44	_____
TOTAL FIXED EXPENSES				172.44	_____
TOTAL SPECIFIED EXPENSES				1185.74	_____

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 21.B Summary of estimated costs and returns per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	156.0000	936.00	_____

TOTAL INCOME				936.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	121.35	1.0000	121.35	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	123.97	1.0000	123.97	_____
ADJUVANTS	acre	17.06	1.0000	17.06	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	46.80	1.0000	46.80	_____
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	18.69	0.6745	12.60	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	18.69	0.4947	9.25	_____
DIESEL FUEL	gal	2.86	37.2802	106.61	_____
REPAIR & MAINTENANCE	acre	38.71	1.0000	38.71	_____
INTEREST ON OP. CAP.	acre	30.76	1.0000	30.76	_____

TOTAL DIRECT EXPENSES				1013.30	_____
RETURNS ABOVE DIRECT EXPENSES				-77.30	_____
TOTAL FIXED EXPENSES				172.44	_____

TOTAL SPECIFIED EXPENSES				1185.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-249.74	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 21.C Estimated resource use for field operations, per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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 II 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 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 21.D Estimated costs for field operations, per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23	8.41
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
Rice Seed Provisia	lb	85.80						3.54	89.34		89.34
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63		19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15	10.18
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
Class Act NG	pt	2.50						0.10	2.60		2.60
MSO	pt	1.75						0.07	1.82		1.82
Seed Levees											
Rice Seed Provisia	lb	15.84						0.65	16.49		16.49
Rice Seed Trt/Insect	lbseed	3.48						0.14	3.62		3.62
App by Air (5 gal)	appl	8.05						0.33	8.38		8.38
Provisia	oz	14.26						0.59	14.85		14.85
Aim	oz	7.34						0.30	7.64		7.64
Permit	oz	17.57						0.72	18.29		18.29
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96		5.96
App Fert by Air	cwt	13.60						0.47	14.07		14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59		11.59
DAP	cwt	18.34						0.63	18.97		18.97
Rice Consultant	acre	8.00						0.28	8.28		8.28
App Fert by Air	cwt	34.00						1.17	35.17		35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18		67.18
NBPT	pt	13.50						0.46	13.96		13.96
App by Air (10 gal)	appl	9.50						0.33	9.83		9.83
Provisia	oz	14.26						0.49	14.75		14.75
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	4.03						0.11	4.14		4.14
Regiment	oz	12.05						0.33	12.38		12.38
Dyne-A-Pak	pt	1.04						0.03	1.07		1.07
Rice Management											
RICE MGT. LABOR	hour				4.53			0.12	4.65		4.65
App Fert by Air	cwt	29.51						0.81	30.32		30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93		57.93
App Fert by Air	cwt	14.96						0.31	15.27		15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17		29.17
Rice Management											
RICE MGT. LABOR	hour				4.53			0.09	4.62		4.62
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Ameristar Top	oz	27.60						0.57	28.17		28.17
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (3 gal)	appl	7.50						0.15	7.65		7.65
Tenchu SG	oz	9.52						0.20	9.72		9.72
App by Air (3 gal)	appl	2.25						0.05	2.30		2.30
Warrior II 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		7.94	10.20	4.50			0.31	22.95	41.05	64.00
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39	2.59
Handling & Storage											
HAND LABOR	hour				2.27			0.03	2.30		2.30
Haul Rice	bu	46.80						0.64	47.44		47.44
Dry Rice	bu	62.40						0.86	63.26		63.26
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81	40.04
Flood Irr.	acre	4.50	80.00	15.41	34.28			4.16	138.35	67.53	205.88
TOTALS		766.84	106.61	38.71	70.38	0.00	30.76	1013.30	172.44	1185.74	

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 21.E Estimated monthly income and expense flows per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

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	936.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	84.82	14.26	12.05	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	123.97	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	1.04	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	46.80	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	4.69	0.00	0.00	0.00	0.00	0.00	17.39	9.52	11.33	11.33	10.74	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	21.62	20.97	20.97	20.97	9.57	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.61	8.20	2.29	2.29	10.88	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.74	7.97	3.78	2.80	1.92	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	296.72	239.73	141.38	137.99	142.31	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-296.72	-239.73	-141.38	-137.99	793.69	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-334.66	-574.39	-715.77	-853.76	-60.07	-77.30

Note: Cost of production estimates are based on 2024 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 21.F Estimated returns for various price/yield combinations, per acre
 Provisia contour levee rice
 Flood irrigated, 33 ac-in., Mississippi, 2025

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-606 -779	-583 -755	-560 -732	-536 -709	-513 -685	-489 -662	-466 -638	-443 -615	-419 -592	-396 -568	-372 -545
60	93.60	bu	-547 -720	-519 -692	-491 -664	-463 -636	-435 -607	-407 -579	-379 -551	-351 -523	-323 -495	-295 -467	-267 -439
70	109.20	bu	-488 -661	-455 -628	-423 -595	-390 -562	-357 -530	-324 -497	-292 -464	-259 -431	-226 -399	-193 -366	-161 -333
80	124.80	bu	-429 -602	-392 -564	-354 -527	-317 -489	-279 -452	-242 -414	-204 -377	-167 -339	-130 -302	-92 -265	-55 -227
90	140.40	bu	-370 -542	-328 -500	-286 -458	-244 -416	-201 -374	-159 -332	-117 -290	-75 -248	-33 -205	8 -163	50 -121
100	156.00	bu	-311 -483	-264 -436	-217 -390	-170 -343	-124 -296	-77 -249	-30 -202	16 -156	63 -109	109 -62	156 -15
110	171.60	bu	-252 -424	-200 -373	-149 -321	-97 -270	-46 -218	5 -167	56 -115	108 -64	159 -12	211 38	262 90
120	187.20	bu	-193 -365	-136 -309	-80 -253	-24 -197	31 -140	87 -84	143 -28	200 27	256 83	312 139	368 196
130	202.80	bu	-133 -306	-73 -245	-12 -184	48 -123	109 -62	170 -2	231 58	291 119	352 180	413 241	474 302
140	218.40	bu	-74 -247	-9 -181	56 -116	121 -50	187 14	252 80	318 145	383 211	449 276	514 342	580 407
150	234.00	bu	-15 -188	54 -117	124 -47	194 22	265 92	335 162	405 233	475 303	545 373	616 443	686 513

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 2024 input prices.

Table 22.A Estimated costs per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Provisia	oz	0.92	31.0000	28.52	_____
Aim	oz	7.34	1.0000	7.34	_____
Permit	oz	23.42	0.7500	17.57	_____
Regiment	oz	48.18	0.2500	12.05	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.32	77.0000	101.64	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	3.50	0.5000	1.75	_____
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	4.17	0.2500	1.04	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	156.0000	46.80	_____
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	18.69	0.4999	9.35	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.2043	20.60	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	21.9949	62.91	_____
REPAIR & MAINTENANCE					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	5.70	1.0000	5.70	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	29.66	1.0000	29.66	_____
TOTAL DIRECT EXPENSES				972.79	_____
FIXED EXPENSES					
Implements	acre	29.38	1.0000	29.38	_____
Tractors	acre	44.11	1.0000	44.11	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.37	1.0000	92.37	_____
TOTAL FIXED EXPENSES				196.69	_____
TOTAL SPECIFIED EXPENSES				1169.48	_____

Note: Cost of production estimates are based on 2024 input prices.

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

Table 22.B Summary of estimated costs and returns per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	156.0000	936.00	_____

TOTAL INCOME				936.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	121.35	1.0000	121.35	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	123.97	1.0000	123.97	_____
ADJUVANTS	acre	17.06	1.0000	17.06	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	46.80	1.0000	46.80	_____
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	18.69	0.6099	11.41	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	31.6056	90.39	_____
REPAIR & MAINTENANCE	acre	36.93	1.0000	36.93	_____
INTEREST ON OP. CAP.	acre	29.66	1.0000	29.66	_____

TOTAL DIRECT EXPENSES				972.79	_____
RETURNS ABOVE DIRECT EXPENSES				-36.79	_____
TOTAL FIXED EXPENSES				196.69	_____

TOTAL SPECIFIED EXPENSES				1169.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-233.48	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 22.C Estimated resource use for field operations, per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

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 II 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 2024 input prices.

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

Table 22.D Estimated costs for field operations, per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Provisia	lb	85.80						3.54	89.34	89.34
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Provisia	lb	15.84						0.65	16.49	16.49
Rice Seed Trt/Insect	lbseed	3.48						0.14	3.62	3.62
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Provisia	oz	14.26						0.59	14.85	14.85
Aim	oz	7.34						0.30	7.64	7.64
Permit	oz	17.57						0.72	18.29	18.29
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Provisia	oz	14.26						0.49	14.75	14.75
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	4.03						0.11	4.14	4.14
Regiment	oz	12.05						0.33	12.38	12.38
Dyne-A-Pak	pt	1.04						0.03	1.07	1.07
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	46.80						0.64	47.44	47.44
Dry Rice	bu	62.40						0.86	63.26	63.26
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	2.25	64.84	14.99	22.96			3.28	108.32	97.26
TOTALS		764.59	90.39	36.93	51.22	0.00	29.66	972.79	196.69	1169.48

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 22.E Estimated monthly income and expense flows per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

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	936.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	84.82	14.26	12.05	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	123.97	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	1.04	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	46.80	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	4.69	0.00	0.00	0.00	0.00	0.00	13.26	5.44	6.34	6.34	9.77	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	20.95	16.31	16.31	16.31	8.00	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.69	8.09	2.18	2.18	9.35	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.45	7.68	3.51	2.60	1.87	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	289.46	230.59	131.35	128.03	138.19	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-289.46	-230.59	-131.35	-128.03	797.81	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-327.40	-557.99	-689.34	-817.37	-19.56	-36.79

Note: Cost of production estimates are based on 2024 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 22.F Estimated returns for various price/yield combinations, per acre
 Provisia straight levee rice
 Flood irrigated, 27 ac-in., Mississippi, 2025

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-566 -763	-543 -739	-519 -716	-496 -692	-472 -669	-449 -646	-426 -622	-402 -599	-379 -575	-355 -552	-332 -529
60	93.60	bu	-507 -704	-479 -675	-451 -647	-423 -619	-394 -591	-366 -563	-338 -535	-310 -507	-282 -479	-254 -451	-226 -423
70	109.20	bu	-448 -644	-415 -612	-382 -579	-349 -546	-317 -513	-284 -481	-251 -448	-218 -415	-186 -382	-153 -350	-120 -317
80	124.80	bu	-389 -585	-351 -548	-314 -510	-276 -473	-239 -435	-201 -398	-164 -361	-126 -323	-89 -286	-52 -248	-14 -211
90	140.40	bu	-329 -526	-287 -484	-245 -442	-203 -400	-161 -358	-119 -316	-77 -273	-35 -231	7 -189	49 -147	91 -105
100	156.00	bu	-270 -467	-223 -420	-177 -373	-130 -327	-83 -280	-36 -233	10 -186	56 -139	103 -93	150 -46	197 0
110	171.60	bu	-211 -408	-160 -356	-108 -305	-57 -253	-5 -202	45 -150	97 -99	148 -47	200 3	251 54	303 106
120	187.20	bu	-152 -349	-96 -293	-40 -236	15 -180	72 -124	128 -68	184 -12	240 43	296 100	352 156	409 212
130	202.80	bu	-93 -290	-32 -229	28 -168	89 -107	149 -46	210 14	271 74	332 135	393 196	454 257	515 318
140	218.40	bu	-34 -230	31 -165	96 -99	162 -34	227 31	293 96	358 162	424 227	489 293	555 358	620 424
150	234.00	bu	24 -171	95 -101	165 -31	235 38	305 108	375 179	446 249	516 319	586 389	656 459	726 530

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 2024 input prices.

Table 23.A Estimated costs per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Provisia	oz	0.92	31.0000	28.52	_____
Aim	oz	7.34	1.0000	7.34	_____
Permit	oz	23.42	0.7500	17.57	_____
Regiment	oz	48.18	0.2500	12.05	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II 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	1.32	77.0000	101.64	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	3.50	0.5000	1.75	_____
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	4.17	0.2500	1.04	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	156.0000	46.80	_____
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	18.69	0.5281	9.88	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	7.4504	21.30	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	18.7364	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.58	1.0000	10.58	_____
Tractors	acre	5.88	1.0000	5.88	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	13.96	1.0000	13.96	_____
INTEREST ON OP. CAP.	acre	29.41	1.0000	29.41	_____
TOTAL DIRECT EXPENSES				961.30	_____
FIXED EXPENSES					
Implements	acre	30.40	1.0000	30.40	_____
Tractors	acre	45.59	1.0000	45.59	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	92.02	1.0000	92.02	_____
TOTAL FIXED EXPENSES				198.84	_____
TOTAL SPECIFIED EXPENSES				1160.14	_____

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 23.B Summary of estimated costs and returns per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	156.0000	936.00	_____

TOTAL INCOME				936.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	121.35	1.0000	121.35	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	123.97	1.0000	123.97	_____
ADJUVANTS	acre	17.06	1.0000	17.06	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	46.80	1.0000	46.80	_____
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	18.69	0.6381	11.94	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	28.5932	81.77	_____
REPAIR & MAINTENANCE	acre	36.86	1.0000	36.86	_____
INTEREST ON OP. CAP.	acre	29.41	1.0000	29.41	_____

TOTAL DIRECT EXPENSES				961.30	_____
RETURNS ABOVE DIRECT EXPENSES				-25.30	_____
TOTAL FIXED EXPENSES				198.84	_____

TOTAL SPECIFIED EXPENSES				1160.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-224.14	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 23.C Estimated resource use for field operations, per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

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 II 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 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 23.D Estimated costs for field operations, per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Provisia	lb	85.80						3.54	89.34	89.34
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Provisia	lb	15.84						0.65	16.49	16.49
Rice Seed Trt/Insect	lbseed	3.48						0.14	3.62	3.62
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Provisia	oz	14.26						0.59	14.85	14.85
Aim	oz	7.34						0.30	7.64	7.64
Permit	oz	17.57						0.72	18.29	18.29
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Provisia	oz	14.26						0.49	14.75	14.75
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	4.03						0.11	4.14	4.14
Regiment	oz	12.05						0.33	12.38	12.38
Dyne-A-Pak	pt	1.04						0.03	1.07	1.07
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	46.80						0.64	47.44	47.44
Dry Rice	bu	62.40						0.86	63.26	63.26
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre	10.17	56.22	14.92	12.49			3.03	96.83	99.41
TOTALS		772.51	81.77	36.86	40.75	0.00	29.41	961.30	198.84	1160.14

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 23.E Estimated monthly income and expense flows per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

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	936.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	84.82	14.26	12.05	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	11.33	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	123.97	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	1.04	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	46.80	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	4.69	0.00	0.00	0.00	0.00	0.00	11.18	2.72	3.62	3.62	9.54	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	19.16	13.98	13.98	13.98	8.16	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	6.80	8.01	2.10	2.10	9.41	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	11.62	7.49	3.37	2.50	1.88	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	293.79	225.27	126.08	122.80	138.19	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-293.79	-225.27	-126.08	-122.80	797.81	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-331.73	-557.00	-683.08	-805.88	-8.07	-25.30

Note: Cost of production estimates are based on 2024 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 23.F Estimated returns for various price/yield combinations, per acre
 Provisia straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Mississippi, 2025

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-554 -753	-531 -730	-508 -706	-484 -683	-461 -660	-437 -636	-414 -613	-391 -589	-367 -566	-344 -543	-320 -519
60	93.60	bu	-495 -694	-467 -666	-439 -638	-411 -610	-383 -582	-355 -554	-327 -526	-299 -498	-271 -470	-243 -441	-215 -413
70	109.20	bu	-436 -635	-403 -602	-371 -570	-338 -537	-305 -504	-272 -471	-240 -438	-207 -406	-174 -373	-141 -340	-109 -307
80	124.80	bu	-377 -576	-340 -538	-302 -501	-265 -464	-227 -426	-190 -389	-152 -351	-115 -314	-78 -276	-40 -239	-3 -202
90	140.40	bu	-318 -517	-276 -475	-234 -433	-192 -390	-149 -348	-107 -306	-65 -264	-23 -222	18 -180	60 -138	102 -96
100	156.00	bu	-259 -458	-212 -411	-165 -364	-118 -317	-72 -270	-25 -224	21 -177	68 -130	115 -83	161 -36	208 9
110	171.60	bu	-200 -399	-148 -347	-97 -296	-45 -244	5 -193	57 -141	108 -90	160 -38	211 12	263 64	314 115
120	187.20	bu	-141 -339	-84 -283	-28 -227	27 -171	83 -115	139 -59	195 -2	252 53	308 109	364 165	420 221
130	202.80	bu	-81 -280	-21 -219	39 -159	100 -98	161 -37	222 23	283 84	343 145	404 205	465 266	526 327
140	218.40	bu	-22 -221	42 -156	108 -90	173 -25	239 40	304 105	370 171	435 237	501 302	566 368	632 433
150	234.00	bu	36 -162	106 -92	176 -22	246 48	317 118	387 188	457 258	527 328	597 399	668 469	738 539

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 2024 input prices.

Table 24.A Estimated costs per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.5000	36.23	_____
App by Air (10 gal)	appl	9.50	1.0000	9.50	_____
App by Air (3 gal)	appl	7.50	1.3000	9.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	22.40	0.5000	11.20	_____
DAP	cwt	36.68	0.5000	18.34	_____
Urea, Solid (46% N)	cwt	25.98	5.7700	149.90	_____
NBPT	pt	18.00	0.7500	13.50	_____
FUNGICIDES					
Ameristar Top	oz	2.76	10.0000	27.60	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
Provisia	oz	0.92	31.0000	28.52	_____
Aim	oz	7.34	1.0000	7.34	_____
Permit	oz	23.42	0.7500	17.57	_____
Regiment	oz	48.18	0.2500	12.05	_____
INSECTICIDES					
Tenchu SG	oz	1.19	8.0000	9.52	_____
Warrior II ZT	oz	3.02	0.6000	1.81	_____
SEED/PLANTS					
Rice Seed Provisia	lb	1.32	77.0000	101.64	_____
Rice Seed Trt/Insect	lbseed	0.29	77.0000	22.33	_____
ADJUVANTS					
MSO	pt	3.50	0.5000	1.75	_____
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	4.17	0.2500	1.04	_____
Surfactant	pt	3.30	0.1000	0.33	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	6.7700	92.07	_____
HAULING					
Haul Rice	bu	0.30	156.0000	46.80	_____
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	18.69	0.4228	7.91	_____
Harvesters	hour	18.69	0.1100	2.06	_____
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	18.70	0.4795	8.97	_____
DIESEL FUEL					
Tractors	gal	2.86	6.5294	18.67	_____
Harvesters	gal	2.86	2.4063	6.88	_____
Flood Irr.	gal	2.86	15.4779	44.27	_____
REPAIR & MAINTENANCE					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	5.17	1.0000	5.17	_____
Harvesters	acre	6.44	1.0000	6.44	_____
Flood Irr.	acre	11.80	1.0000	11.80	_____
INTEREST ON OP. CAP.	acre	28.40	1.0000	28.40	_____
TOTAL DIRECT EXPENSES				932.09	_____
FIXED EXPENSES					
Implements	acre	28.54	1.0000	28.54	_____
Tractors	acre	40.06	1.0000	40.06	_____
Harvesters	acre	30.83	1.0000	30.83	_____
Flood Irr.	acre	91.67	1.0000	91.67	_____
TOTAL FIXED EXPENSES				191.10	_____
TOTAL SPECIFIED EXPENSES				1123.19	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 24.B Summary of estimated costs and returns per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	156.0000	936.00	_____

TOTAL INCOME				936.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.48	1.0000	55.48	_____
FERTILIZERS	acre	192.95	1.0000	192.95	_____
FUNGICIDES	acre	27.60	1.0000	27.60	_____
HERBICIDES	acre	121.35	1.0000	121.35	_____
INSECTICIDES	acre	11.33	1.0000	11.33	_____
SEED/PLANTS	acre	123.97	1.0000	123.97	_____
ADJUVANTS	acre	17.06	1.0000	17.06	_____
CUSTOM FERTILIZE	acre	92.07	1.0000	92.07	_____
HAULING	acre	46.80	1.0000	46.80	_____
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	18.69	0.5328	9.97	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	18.70	0.4795	8.97	_____
DIESEL FUEL	gal	2.86	24.4137	69.82	_____
REPAIR & MAINTENANCE	acre	33.74	1.0000	33.74	_____
INTEREST ON OP. CAP.	acre	28.40	1.0000	28.40	_____

TOTAL DIRECT EXPENSES				932.09	_____
RETURNS ABOVE DIRECT EXPENSES				3.91	_____
TOTAL FIXED EXPENSES				191.10	_____

TOTAL SPECIFIED EXPENSES				1123.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-187.19	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 24.C Estimated resource use for field operations, per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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 II 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 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 24.D Estimated costs for field operations, per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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'		4.12	2.62	3.31			0.83	10.88	16.69
Harrow - Folding	40'		1.71	0.77	1.38			0.32	4.18	4.23
App by Air (5 gal)	appl	8.05						0.44	8.49	8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08	6.08
2,4-D Amine 4	pt	4.46						0.25	4.71	4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59
Rice Seed Provisia	lb	85.80						3.54	89.34	89.34
Rice Seed Trt/Insect	lbseed	18.85						0.78	19.63	19.63
Roller/Cultipacker	30'		2.20	0.86	1.77			0.20	5.03	5.15
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00	4.00
Command 3ME	pt	19.43						0.80	20.23	20.23
Sharpen	oz	22.38						0.92	23.30	23.30
MSO	pt	1.75						0.07	1.82	1.82
Class Act NG	pt	2.50						0.10	2.60	2.60
Seed Levees										
Rice Seed Provisia	lb	15.84						0.65	16.49	16.49
Rice Seed Trt/Insect	lbseed	3.48						0.14	3.62	3.62
App by Air (5 gal)	appl	8.05						0.33	8.38	8.38
Provisia	oz	14.26						0.59	14.85	14.85
Aim	oz	7.34						0.30	7.64	7.64
Permit	oz	17.57						0.72	18.29	18.29
Crop Oil Conc.(Pet.)	pt	5.72						0.24	5.96	5.96
App Fert by Air	cwt	13.60						0.47	14.07	14.07
Amm Sulfate (21% N)	cwt	11.20						0.39	11.59	11.59
DAP	cwt	18.34						0.63	18.97	18.97
Rice Consultant	acre	8.00						0.28	8.28	8.28
App Fert by Air	cwt	34.00						1.17	35.17	35.17
Urea, Solid (46% N)	cwt	64.95						2.23	67.18	67.18
NBPT	pt	13.50						0.46	13.96	13.96
App by Air (10 gal)	appl	9.50						0.33	9.83	9.83
Provisia	oz	14.26						0.49	14.75	14.75
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	4.03						0.11	4.14	4.14
Regiment	oz	12.05						0.33	12.38	12.38
Dyne-A-Pak	pt	1.04						0.03	1.07	1.07
Rice Management										
RICE MGT. LABOR	hour				1.81			0.05	1.86	1.86
App Fert by Air	cwt	29.51						0.81	30.32	30.32
Urea, Solid (46% N)	cwt	56.38						1.55	57.93	57.93
App Fert by Air	cwt	14.96						0.31	15.27	15.27
Urea, Solid (46% N)	cwt	28.58						0.59	29.17	29.17
Rice Management										
RICE MGT. LABOR	hour				1.81			0.04	1.85	1.85
App by Air (5 gal)	appl	8.05						0.17	8.22	8.22
Ameristar Top	oz	27.60						0.57	28.17	28.17
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (3 gal)	appl	7.50						0.15	7.65	7.65
Tenchu SG	oz	9.52						0.20	9.72	9.72
App by Air (3 gal)	appl	2.25						0.05	2.30	2.30
Warrior II 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		6.88	8.84	3.91			0.27	19.90	35.57
Grain Cart Rice	700 bu		0.49	0.29	0.40			0.02	1.20	1.39
Handling & Storage										
HAND LABOR	hour				2.27			0.03	2.30	2.30
Haul Rice	bu	46.80						0.64	47.44	47.44
Dry Rice	bu	62.40						0.86	63.26	63.26
Disk Heavy	28'		6.68	5.05	5.38			0.12	17.23	22.81
Flood Irr.	acre		44.27	11.80	9.53			2.02	67.62	91.67
TOTALS		762.34	69.82	33.74	37.79	0.00	28.40	932.09	191.10	1123.19

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 24.E Estimated monthly income and expense flows per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

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	936.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	16.10	9.50	4.03	17.80	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.99	56.38	28.58	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	84.82	14.26	12.05	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	11.33	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	123.97	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	9.97	5.72	1.04	0.33	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.60	29.51	14.96	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	46.80	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	4.69	0.00	0.00	0.00	0.00	0.00	7.99	3.18	4.08	4.08	8.39	5.38
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	14.99	11.65	11.65	11.65	7.37	6.68
REPAIR & MAINTENANCE	3.39	0.00	0.00	0.00	0.00	0.00	5.61	7.46	1.55	1.55	9.13	5.05
INTEREST ON OP. CAP.	1.42	0.00	0.00	0.00	1.01	0.00	10.85	7.41	3.30	2.45	1.84	0.12
TOTAL DIRECT EXPENSES	18.66	0.00	0.00	0.00	19.28	0.00	274.30	222.77	123.59	120.33	135.93	17.23
NET INCOME	-18.66	0.00	0.00	0.00	-19.28	0.00	-274.30	-222.77	-123.59	-120.33	800.07	-17.23
NET INCOME TO DATE	-18.66	-18.66	-18.66	-18.66	-37.94	-37.94	-312.24	-535.01	-658.60	-778.93	21.14	3.91

Note: Cost of production estimates are based on 2024 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 24.F Estimated returns for various price/yield combinations, per acre
 Provisia straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Mississippi, 2025

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50		
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-525 -716	-502 -693	-478 -670	-455 -646	-432 -623	-408 -599	-385 -576	-361 -553	-338 -529	-315 -506	-291 -482
60	93.60	bu	-466 -657	-438 -629	-410 -601	-382 -573	-354 -545	-326 -517	-298 -489	-270 -461	-241 -433	-213 -404	-185 -376
70	109.20	bu	-407 -598	-374 -565	-341 -533	-309 -500	-276 -467	-243 -434	-210 -402	-178 -369	-145 -336	-112 -303	-79 -270
80	124.80	bu	-348 -539	-310 -502	-273 -464	-236 -427	-198 -389	-161 -352	-123 -314	-86 -277	-48 -239	-11 -202	26 -165
90	140.40	bu	-289 -480	-247 -438	-204 -396	-162 -353	-120 -311	-78 -269	-36 -227	5 -185	47 -143	89 -101	131 -59
100	156.00	bu	-230 -421	-183 -374	-136 -327	-89 -280	-42 -233	3 -187	50 -140	97 -93	144 -46	191 0	237 46
110	171.60	bu	-170 -362	-119 -310	-68 -259	-16 -207	34 -156	86 -104	137 -53	189 -1	240 49	292 101	343 152
120	187.20	bu	-111 -302	-55 -246	0 -190	56 -134	112 -78	168 -22	225 34	281 90	337 146	393 202	449 258
130	202.80	bu	-52 -243	8 -182	68 -122	129 -61	190 -0	251 60	312 121	373 182	434 242	494 303	555 364
140	218.40	bu	6 -184	71 -119	137 -53	202 11	268 77	334 142	399 208	465 273	530 339	596 405	661 470
150	234.00	bu	65 -125	135 -55	205 14	276 85	346 155	416 225	486 295	556 365	627 436	697 506	767 576

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 2024 input prices.

Table 25.A Estimated costs per acre
Conventional Row Rice
Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	6.0000	48.30	_____
FERTILIZERS					
Urea, Solid (46% N)	cwt	25.98	4.8000	124.70	_____
NBPT	pt	18.00	1.5200	27.36	_____
FUNGICIDES					
Quadris	oz	1.70	12.5000	21.25	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	80.0000	9.60	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Command 3ME	pt	14.95	1.3000	19.43	_____
Sharpen	oz	7.46	3.0000	22.38	_____
RiceBeaux	pt	6.72	8.0000	53.76	_____
Facet L	pt	17.36	2.0000	34.72	_____
Gambit	oz	18.07	2.0000	36.14	_____
Grandstand R	pt	21.42	1.0000	21.42	_____
INSECTICIDES					
Tenchu SG	oz	1.19	10.5000	12.50	_____
Warrior II ZT	oz	3.02	2.5600	7.73	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.33	80.0000	26.40	_____
Rice Conv Hyb Trt	lb	6.31	30.0000	189.30	_____
Rice Seed Trt/Insect	lbseed	0.29	110.0000	31.90	_____
ADJUVANTS					
MSO	pt	3.50	3.0000	10.50	_____
Class Act NG	pt	5.00	1.0000	5.00	_____
Crop Oil Conc. (Pet.)	pt	2.86	2.0000	5.72	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	13.60	4.8000	65.28	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	18.69	0.2661	4.97	_____
Harvesters	hour	18.69	0.1100	2.06	_____
HAND LABOR					
Implements	hour	9.06	0.0785	0.71	_____
HAND. & STOR. LABOR					
Special Labor	hour	9.06	0.2000	1.81	_____
UNALLOCATED LABOR	hour	18.69	0.3385	6.33	_____
DIESEL FUEL					
Tractors	gal	2.86	3.8981	11.15	_____
Harvesters	gal	2.86	2.4063	6.88	_____
REPAIR & MAINTENANCE					
Implements	acre	7.47	1.0000	7.47	_____
Tractors	acre	3.14	1.0000	3.14	_____
Harvesters	acre	6.44	1.0000	6.44	_____
INTEREST ON OP. CAP.	acre	29.10	1.0000	29.10	_____
TOTAL DIRECT EXPENSES				869.23	_____
FIXED EXPENSES					
Implements	acre	20.92	1.0000	20.92	_____
Tractors	acre	24.35	1.0000	24.35	_____
Harvesters	acre	30.83	1.0000	30.83	_____
TOTAL FIXED EXPENSES				76.10	_____
TOTAL SPECIFIED EXPENSES				945.33	_____

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 25.B Summary of estimated costs and returns per acre
 Conventional Row Rice
 Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	180.0000	1080.00	_____

TOTAL INCOME				1080.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	48.30	1.0000	48.30	_____
FERTILIZERS	acre	152.08	1.0000	152.08	_____
FUNGICIDES	acre	21.25	1.0000	21.25	_____
HERBICIDES	acre	201.91	1.0000	201.91	_____
INSECTICIDES	acre	20.23	1.0000	20.23	_____
SEED/PLANTS	acre	247.60	1.0000	247.60	_____
ADJUVANTS	acre	21.22	1.0000	21.22	_____
CUSTOM FERTILIZE	acre	65.28	1.0000	65.28	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0785	0.71	_____
HAND. & STOR. LABOR	hour	9.06	0.2000	1.81	_____
OPERATOR LABOR	hour	18.69	0.3761	7.03	_____
UNALLOCATED LABOR	hour	18.69	0.3385	6.33	_____
DIESEL FUEL	gal	2.86	6.3044	18.03	_____
REPAIR & MAINTENANCE	acre	17.05	1.0000	17.05	_____
INTEREST ON OP. CAP.	acre	29.10	1.0000	29.10	_____

TOTAL DIRECT EXPENSES				869.23	_____
RETURNS ABOVE DIRECT EXPENSES				210.77	_____
TOTAL FIXED EXPENSES				76.10	_____

TOTAL SPECIFIED EXPENSES				945.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				134.67	_____

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 25.C Estimated resource use for field operations, per acre
 Conventional Row Rice
 Mississippi, 2025

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	0.3300				
Field Cultivate Fld	32'	MFWD 300	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Roller/Cultipacker	38'	MFWD 300	0.039	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					80.0000				
Rice Conv Hyb Trt	lb					30.0000				
Rice Seed Trt/Insect	lbseed					110.0000				
App by Air (5 gal)	appl			1.00	Apr					
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.3000				
Sharpen	oz					3.0000				
MSO	pt					1.0000				
Class Act NG	pt					1.0000				
Rice Consultant	acre			1.00	May	1.0000				
App Fert by Air	cwt			1.00	May	1.2000				
Urea, Solid (46% N)	cwt					1.2000				
NBPT	pt					0.8000				
App by Air (5 gal)	appl			1.00	May	1.0000				
RiceBeaux	pt					8.0000				
App Fert by Air	cwt			1.00	May	1.2000				
Urea, Solid (46% N)	cwt					1.2000				
NBPT	pt					0.2400				
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet L	pt					2.0000				
Gambit	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			1.00	Jun	1.2000				
Urea, Solid (46% N)	cwt					1.2000				
NBPT	pt					0.2400				
App Fert by Air	cwt			1.00	Jul	1.2000				
Urea, Solid (46% N)	cwt					1.2000				
NBPT	pt					0.2400				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Grandstand R	pt					1.0000				
MSO	pt					2.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Quadris	oz					12.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Tenchu SG	oz					10.5000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Warrior II ZT	oz					2.5600				
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 225	0.055	1.00	Aug		0.05	0.05	0.05	0.04
HAND. & STOR. LABOR	hour			1.00	Aug				0.20	
Dry Rice	bu			1.00	Aug					
TOTALS							0.37	0.37	0.65	0.33

Note: Cost of production estimates are based on 2024 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 25.D Estimated costs for field operations, per acre
 Conventional Row Rice
 Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.30						0.02	3.32		3.32
Field Cultivate Fld	32'		4.12	2.62	3.31			0.83	10.88	16.69	27.57
Roller/Cultipacker	38'		1.74	0.74	1.39			0.32	4.19	4.16	8.35
App by Air (5 gal)	appl	8.05						0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	5.76						0.32	6.08		6.08
2,4-D Amine 4	pt	4.46						0.25	4.71		4.71
Grain Drill	24'		3.47	3.51	3.50			0.43	10.91	13.59	24.50
Rice Seed Conv.	lb	26.40						1.09	27.49		27.49
Rice Conv Hyb Trt	lb	189.30						7.81	197.11		197.11
Rice Seed Trt/Insect	lbseed	31.90						1.32	33.22		33.22
App by Air (5 gal)	appl										
Glyphosate 3lbs a.e	oz	3.84						0.16	4.00		4.00
Command 3ME	pt	19.43						0.80	20.23		20.23
Sharpen	oz	22.38						0.92	23.30		23.30
MSO	pt	3.50						0.14	3.64		3.64
Class Act NG	pt	5.00						0.21	5.21		5.21
Rice Consultant	acre	8.00						0.28	8.28		8.28
App Fert by Air	cwt	16.32						0.56	16.88		16.88
Urea, Solid (46% N)	cwt	31.18						1.07	32.25		32.25
NBPT	pt	14.40						0.50	14.90		14.90
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
RiceBeaux	pt	53.76						1.85	55.61		55.61
App Fert by Air	cwt	16.32						0.56	16.88		16.88
Urea, Solid (46% N)	cwt	31.18						1.07	32.25		32.25
NBPT	pt	4.32						0.15	4.47		4.47
App by Air (5 gal)	appl	8.05						0.28	8.33		8.33
Facet L	pt	34.72						1.19	35.91		35.91
Gambit	oz	36.14						1.24	37.38		37.38
Crop Oil Conc.(Pet.)	pt	5.72						0.20	5.92		5.92
App Fert by Air	cwt	16.32						0.45	16.77		16.77
Urea, Solid (46% N)	cwt	31.18						0.86	32.04		32.04
NBPT	pt	4.32						0.12	4.44		4.44
App Fert by Air	cwt	16.32						0.34	16.66		16.66
Urea, Solid (46% N)	cwt	31.18						0.64	31.82		31.82
NBPT	pt	4.32						0.09	4.41		4.41
App by Air (5 gal)	appl										
Grandstand R	pt	21.42						0.44	21.86		21.86
MSO	pt	7.00						0.14	7.14		7.14
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Quadris	oz	21.25						0.44	21.69		21.69
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Tenchu SG	oz	12.50						0.26	12.76		12.76
App by Air (5 gal)	appl	8.05						0.17	8.22		8.22
Warrior II ZT	oz	7.73						0.16	7.89		7.89
Header - Draper (SL)	40' Rigid		6.88	8.84	3.91			0.27	19.90	35.57	55.47
Grain Cart Rice	700 bu		1.82	1.34	1.96			0.07	5.19	6.09	11.28
HAND. & STOR. LABOR	hour				1.81			0.02	1.83		1.83
Dry Rice	bu										
TOTALS		789.17	18.03	17.05	15.88	0.00	29.10	869.23	76.10	945.33	

Note: Cost of production estimates are based on 2024 input prices.

Fertilization decisions should be based on soil tests.

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

Table 25.E Estimated monthly income and expense flows per acre
 Conventional Row Rice
 Mississippi, 2025

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	1080.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	0.00	16.10	0.00	24.15	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.08	35.50	35.50	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.22	0.00	45.65	124.62	0.00	21.42	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.23	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	247.60	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	8.50	5.72	0.00	7.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.64	16.32	16.32	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	3.30
LABOR	4.70	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	7.68	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.86	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.00	0.00	8.70	0.00
REPAIR & MAINTENANCE	3.36	0.00	0.00	0.00	0.00	0.00	3.51	0.00	0.00	0.00	10.18	0.00
INTEREST ON OP. CAP.	1.15	0.00	0.00	0.00	1.01	0.00	12.88	9.23	1.43	3.02	0.36	0.02
TOTAL DIRECT EXPENSES	15.07	0.00	0.00	0.00	19.28	0.00	325.11	277.39	53.25	148.89	26.92	3.32
NET INCOME	-15.07	0.00	0.00	0.00	-19.28	0.00	-325.11	-277.39	-53.25	-148.89	1053.08	-3.32
NET INCOME TO DATE	-15.07	-15.07	-15.07	-15.07	-34.35	-34.35	-359.46	-636.85	-690.10	-838.99	214.09	210.77

Note: Cost of production estimates are based on 2024 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 25.F Estimated returns for various price/yield combinations, per acre
 Conventional Row Rice
 Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT			dollars										
50	90.00	bu	-464 -540	-437 -513	-410 -486	-383 -459	-356 -432	-329 -405	-302 -378	-275 -351	-248 -324	-221 -297	-194 -270
60	108.00	bu	-383 -459	-350 -426	-318 -394	-286 -362	-253 -329	-221 -297	-188 -264	-156 -232	-124 -200	-91 -167	-59 -135
70	126.00	bu	-302 -378	-264 -340	-226 -302	-188 -264	-151 -227	-113 -189	-75 -151	-37 -113	0 -75	37 -38	75 -0
80	144.00	bu	-221 -297	-178 -254	-134 -210	-91 -167	-48 -124	-5 -81	37 -38	81 5	124 48	167 91	210 134
90	162.00	bu	-140 -216	-91 -167	-43 -119	5 -70	54 -21	102 26	151 75	199 123	248 172	297 221	345 269
100	180.00	bu	-59 -135	-5 -81	48 -27	102 26	156 80	210 134	264 188	318 242	372 296	426 350	480 404
110	198.00	bu	21 -54	81 5	140 64	199 123	259 183	318 242	378 302	437 361	496 420	556 480	615 539
120	216.00	bu	102 26	167 91	232 156	297 221	361 285	426 350	491 415	556 480	621 545	685 609	750 674
130	234.00	bu	183 107	253 177	324 248	394 318	464 388	534 458	604 528	675 599	745 669	815 739	885 809
140	252.00	bu	264 188	340 264	415 339	491 415	567 491	642 566	718 642	793 717	869 793	945 869	1020 944
150	270.00	bu	345 269	426 350	507 431	588 512	669 593	750 674	831 755	912 836	993 917	1074 998	1155 1079

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2024 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, 2025

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	18.69	39.01	48.22	105.92	230.93	336.86
Combine (300-349 hp)	325 hp	538,000	300	8	16.73	18.69	47.84	56.04	122.57	268.33	390.91
Combine (350-399 hp)	355 hp	556,000	300	8	18.27	18.69	52.25	57.91	128.85	277.31	406.17
Combine (400-449 hp)	425 hp	562,000	300	8	21.87	18.69	62.56	58.54	139.79	280.30	420.10
Combine (450-499hp)	475 hp	592,000	300	8	24.44	18.69	69.92	61.66	150.28	295.27	445.55
Tractor(20-39hp)CB	MFWD 30	38,500	600	8	1.54	18.69	4.41	1.20	24.30	9.00	33.31
Tractor(20-39hp)RB	MFWD 30	28,100	600	8	1.54	18.69	4.41	0.87	23.98	6.57	30.55
Tractor(40-59hp)CB	2WD 50	39,900	600	8	2.57	18.69	7.36	1.24	27.29	9.33	36.63
Tractor(40-59hp)CB	MFWD 50	50,600	600	8	2.57	18.69	7.36	1.58	27.63	11.84	39.47
Tractor(40-59hp)RB	2WD 50	29,100	600	8	2.57	18.69	7.36	0.90	26.95	6.80	33.76
Tractor(40-59hp)RB	MFWD 50	33,800	600	8	2.57	18.69	7.36	1.05	27.10	7.90	35.01
Tractor(60-89hp)CB	2WD 75	69,500	600	8	3.86	18.69	11.04	2.17	31.90	16.26	48.16
Tractor(60-89hp)CB	MFWD 75	79,000	600	8	3.86	18.69	11.04	2.46	32.19	18.48	50.68
Tractor(60-89hp)RB	2WD 75	60,100	600	8	3.86	18.69	11.04	1.87	31.60	14.06	45.67
Tractor(60-89hp)RB	MFWD 75	53,400	600	8	3.86	18.69	11.04	1.66	31.39	12.49	43.89
Tractor(90-119hp)CB	2WD 105	96,900	600	8	5.40	18.69	15.45	3.02	37.17	22.67	59.84
Tractor(90-119hp)CB	MFWD 105	109,900	600	8	5.40	18.69	15.45	3.43	37.58	25.71	63.29
Tractor(90-119hp)RB	2WD 105	91,600	600	8	5.40	18.69	15.45	2.86	37.00	21.43	58.44
Tractor(90-119hp)RB	MFWD 105	97,400	600	8	5.40	18.69	15.45	3.04	37.19	22.79	59.98
Tractor(120-139hp)CB	2WD 130	127,900	600	8	6.69	18.69	19.13	3.99	41.82	29.92	71.75
Tractor(120-139hp)CB	MFWD 130	165,700	600	8	6.69	18.69	19.13	5.17	43.00	38.77	81.77
Tractor(140-159hp)	2WD 150	152,300	600	8	7.72	18.69	22.08	4.75	45.53	35.63	81.16
Tractor(140-159hp)CB	MFWD 150	179,700	600	8	7.72	18.69	22.08	5.61	46.38	42.04	88.43
Tractor(160-179hp)CB	MFWD 170	217,000	600	8	8.75	18.69	25.02	6.78	50.49	52.44	102.94
Tractor(180-199hp)CB	MFWD 190	274,000	600	8	9.77	18.69	27.97	8.56	55.22	66.22	121.44
Tractor(200-249hp)CB	MFWD 225	327,000	600	8	11.58	18.69	33.12	10.21	62.03	79.03	141.06
Tractor(250-349hp)CB	4WD 300	452,000	600	8	15.44	18.69	44.16	14.12	76.97	109.24	186.22
Tractor(250-349hp)CB	MFWD 300	392,000	600	8	15.44	18.69	44.16	12.25	75.10	94.74	169.84
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	18.69	44.16	10.28	73.13	79.51	152.65
Tractor(350-449hp)	Track 400	635,000	600	8	20.58	18.69	58.88	19.84	97.41	153.47	250.89
Tractor(350-449hp)CB	4WD 400	501,000	600	8	20.58	18.69	58.88	15.65	93.23	121.08	214.31
Tractor(450-550hp)CB	4WD 500	577,000	600	8	25.73	18.69	73.60	18.03	110.32	139.45	249.78
Tractor(450-550hp)CB	Track 500	683,000	600	8	25.73	18.69	73.60	21.34	113.63	165.07	278.71
Utility Vehicle	800 CC	12,200	200	8	0.70	18.69	2.07	1.90	22.66	9.12	31.79
Utility Vehicle	900 CC	18,700	200	8	1.00	18.69	2.96	2.92	24.57	13.99	38.56

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, 2025

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	7.15	9.48	10.79	27.43	51.68	79.12
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	7.15	13.28	14.13	34.57	67.69	102.26
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.78	8.87	9.61	23.27	46.02	69.29
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	6.05	11.40	15.85	33.31	75.92	109.24
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.78	9.00	12.51	26.30	59.94	86.25
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	7.15	15.17	21.58	43.92	103.37	147.29
Cotton Picker/Module	6R-30 (500)	1,081,000	200	8	25.73	0.218	6.05	16.06	36.86	58.98	176.51	235.49
Cotton Picker/Module	6R-38 (500)	1,084,000	200	8	25.73	0.172	4.78	12.68	29.18	46.64	139.74	186.39
Dry Applicator SP	70'300cuft	491,000	350	8	16.98	0.015	0.35	0.73	0.39	1.48	3.17	4.65
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.40	0.45	0.20	1.06	1.62	2.69
Sprayer 600-825gal	80' 175hp	273,000	350	8	11.81	0.013	0.30	0.44	0.19	0.94	1.54	2.48
Sprayer 600-825gal	90' 250hp	351,000	350	8	12.73	0.011	0.27	0.42	0.22	0.92	1.76	2.68
Sprayer 800gal	100' 250hp	383,000	350	8	14.15	0.010	0.24	0.42	0.21	0.89	1.73	2.62
Sprayer 800gal	80' 250hp	287,000	350	8	12.86	0.013	0.30	0.48	0.20	0.99	1.62	2.61
Sprayer 1000-1400gal	90' 275hp	381,000	350	8	14.15	0.010	0.24	0.42	0.21	0.88	1.72	2.61
Sprayer 1000gal	100' 300hp	528,000	350	8	15.44	0.010	0.24	0.46	0.29	1.01	2.38	3.40
Sprayer 1200+gal	120' 300hp	519,000	350	8	15.44	0.008	0.20	0.38	0.24	0.83	1.95	2.79

Notes:

Labor: includes allocated labor plus any additional labor from self-propelled machine.

Direct: Does not include interest on operating capital.

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (continued)

Table with columns: Item Name, Size, Power Unit, Purchase Price, Annual Use, Useful Life, Perf Rate, Labor, Fuel, ---R&M---, Total, --Fixed--, Total Cost. Includes rows for various equipment like Cultivate & Post, Disk & Incorporate, Disk Harrow, Fert Appl, Field Cult, Grain Cart, Grain Drill, Harrow, and Header.

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (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-----							
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.38	1.85	0.39	0.27	3.89	2.07	2.12	8.09
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	1.11	1.67	0.35	0.51	3.65	1.86	3.95	9.46
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.16	1.74	1.07	0.53	4.52	3.56	4.13	12.23
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.34	2.01	0.68	0.61	4.66	2.26	4.77	11.70
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.87	1.55	0.66	0.47	3.57	2.21	3.70	9.49
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.66	2.49	0.85	0.76	5.78	2.83	5.91	14.53
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.34	2.01	0.76	0.61	4.74	2.52	4.77	12.04
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.16	1.17	0.34	0.36	3.04	0.85	2.78	6.69
Spray (ATV Ropewick)	75"	800 CC	730	200	8	0.260	6.04	0.53	0.08	0.49	7.17	0.13	2.37	9.67
Spray (ATV)	20'	800 CC	1,440	200	8	0.084	1.96	0.17	0.05	0.16	2.35	0.08	0.77	3.21
Spray (Band)	27' Fold	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Band)	40' Fold	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Band)	50' Fold	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Band)	60' Fold	MFWD 170	18,600	200	8	0.028	0.65	0.70	0.24	0.19	1.79	0.36	1.47	3.64
Spray (Bcast/HB)	13' Rigid	MFWD 150	9,170	200	8	0.130	3.02	2.87	0.55	0.73	7.18	0.83	5.47	13.49
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,700	200	8	0.084	1.96	1.86	0.42	0.47	4.73	0.63	3.55	8.92
Spray (Bcast/HB)	27' Fold	MFWD 170	13,600	200	8	0.062	1.45	1.56	0.39	0.42	3.84	0.59	3.28	7.73
Spray (Bcast/HB)	27' Rigid	MFWD 170	12,600	200	8	0.062	1.45	1.56	0.37	0.42	3.81	0.55	3.28	7.66
Spray (Bcast/HB)	30' Fold	MFWD 170	19,400	200	8	0.056	1.30	1.41	0.51	0.38	3.61	0.76	2.95	7.34
Spray (Bcast/HB)	40' Fold	MFWD 170	23,200	200	8	0.042	0.98	1.05	0.46	0.28	2.78	0.68	2.21	5.69
Spray (Broadcast)	27'	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Broadcast)	40'	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Broadcast)	50'	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Broadcast)	60'	MFWD 170	18,600	200	8	0.028	0.65	0.70	0.24	0.19	1.79	0.36	1.47	3.64
Spray (Direct/Hood)	8R-30	MFWD 170	19,800	200	8	0.084	1.96	2.11	0.78	0.57	5.44	1.17	4.43	11.05
Spray (Direct/Hood)	8R-38	MFWD 170	20,600	200	8	0.066	1.55	1.67	0.64	0.45	4.32	0.96	3.50	8.80
Spray (Direct/Hood)	12R-30	MFWD 170	27,100	200	8	0.056	1.30	1.41	0.71	0.38	3.82	1.07	2.95	7.85
Spray (Direct/Hood)	12R-38	MFWD 170	28,200	200	8	0.044	1.03	1.11	0.58	0.30	3.03	0.88	2.33	6.25
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.96	2.11	0.77	0.57	5.42	1.15	4.43	11.02
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.55	1.67	0.61	0.45	4.29	0.91	3.50	8.71
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	1.03	1.11	0.61	0.30	3.06	0.92	2.33	6.32
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.30	1.41	0.78	0.38	3.88	1.16	2.95	8.01
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	1.03	1.11	0.61	0.30	3.06	0.92	2.33	6.32
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.45	2.07	1.01	0.64	5.18	1.52	4.95	11.66
Spray (Levee Leaper)	50'	MFWD 225	22,200	200	8	0.033	0.78	1.12	0.35	0.34	2.60	0.52	2.67	5.80
Spray (Pull Type)	60'	MFWD 225	75,100	200	8	0.028	0.65	0.93	0.99	0.28	2.87	1.48	2.22	6.58
Spray (Pull Type)	80'	MFWD 225	69,400	200	8	0.021	0.49	0.70	0.68	0.21	2.09	1.03	1.67	4.79
Spray (Pull Type)	90'	MFWD 225	70,400	200	8	0.018	0.43	0.62	0.62	0.19	1.87	0.92	1.48	4.28
Spray (Pull Type)	120'	MFWD 225	127,000	200	8	0.014	0.32	0.46	0.83	0.14	1.77	1.25	1.11	4.14
Spray (Ropewick)	20'	MFWD 190	3,630	200	8	0.084	1.96	2.36	0.14	0.72	5.20	0.21	5.60	11.01
Spray (Spot)	27'	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Spot)	40'	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Spot)	50'	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Spot)	60'	MFWD 225	18,600	200	8	0.028	0.65	0.93	0.24	0.28	2.12	0.36	2.22	4.72
Stalk Shredder	14'	MFWD 150	37,500	200	10	0.117	2.20	2.60	3.86	0.66	9.33	2.92	4.95	17.21
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.54	1.82	2.38	0.46	6.21	1.80	3.46	11.49
Stalk Shredder-Flail	12'	MFWD 150	32,200	200	10	0.137	2.56	3.03	3.87	0.77	10.25	2.92	5.78	18.96
Stalk Shredder-Flail	15'	MFWD 150	35,700	200	10	0.110	2.05	2.42	3.43	0.61	8.53	2.59	4.62	15.75
Stalk Shredder-Flail	18'	MFWD 150	53,400	200	10	0.091	1.71	2.02	4.28	0.51	8.53	3.23	3.85	15.62
Stalk Shredder-Flail	20'	MFWD 150	47,500	200	10	0.082	1.54	1.82	3.42	0.46	7.25	2.59	3.46	13.31
Stalk Shredder-Flail	25'	MFWD 150	72,200	200	10	0.066	1.23	1.45	4.16	0.37	7.23	3.14	2.77	13.15
Strip Till	8R-38	MFWD 225	71,400	150	10	0.061	1.15	2.04	1.90	0.62	5.72	3.87	4.87	14.47
Strip Till	12R-30	MFWD 225	121,000	150	10	0.061	1.15	2.04	3.23	0.62	7.05	6.57	4.87	18.49
Strip Till	12R-40	MFWD 225	122,000	150	10	0.046	0.86	1.53	2.44	0.47	5.31	4.96	3.65	13.93
Subsoiler	3 shank	MFWD 190	6,140	100	15	0.204	3.81	5.71	0.41	1.74	11.70	1.37	13.53	26.61
Subsoiler	4 shank	MFWD 225	15,100	100	15	0.153	2.87	5.08	0.77	1.56	10.30	2.54	12.14	24.99
Subsoiler	5 shank	MFWD 225	18,600	100	15	0.122	2.28	4.05	0.75	1.25	8.34	2.49	9.67	20.51
Subsoiler low-till	6 shank	MFWD 225	28,200	100	15	0.102	1.90	3.38	0.96	1.04	7.29	3.16	8.07	18.53
Subsoiler low-till	8 shank	MFWD 225	25,700	100	15	0.076	1.43	2.53	0.65	0.78	5.40	2.15	6.04	13.61

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, 2025

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Avaris	oz	1.96
Agri-Dex	pt	4.03	Avicta 500 Soybean	oz	2.14
AMS SuperMax	pt	3.81	Bravo Weather Stick	pt	3.49
Class Act NG	pt	5.00	Captan 4L	pt	4.50
Crop Oil Conc. (Pet.)	pt	2.86	Convoy	oz	1.02
Crop Oil Conc. (Veg.)	pt	2.90	Cotton Seed Trt.	acre	20.00
Dyne-A-Pak	pt	4.17	CruiserMaxx Vibrance	oz	4.46
Fire-Zone	pt	5.33	Elatus	oz	3.65
Herbimax	pt	2.75	Flint Extra	oz	10.11
Induce	pt	4.27	Headline EC	oz	1.32
MSO	pt	3.50	Miravis Ace	oz	1.48
Penetrator Plus	pt	2.18	Miravis Top	oz	1.46
Surfactant	pt	3.30	Priaxor Xemium	oz	4.26
CLEANING			Propimax EC	pt	18.20
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.81
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.52
Cotton Consultant	acre	8.00	Quadris	oz	1.70
Peanut Consultant	acre	9.25	Quadris Top	oz	3.20
Rice Consultant	acre	8.00	Quadris Top SBX	oz	3.68
Sorghum Consultant	acre	6.00	Quilt	pt	4.00
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	26.69
Wheat Consultant	acre	5.50	Stratego	pt	22.50
CUSTOM FERTILIZE			Stratego YLD	oz	3.32
App Fert by Air	cwt	13.60	Tilt 3.6 EC	oz	0.87
App Fert by Air (Mi)	appl	13.60	Tilt/ Bravo SE	oz	0.87
Custom Apply Fert	acre	9.00	Trivapro	oz	1.47
CUSTOM LIME			GINNING		
Lime (Spread)	ton	51.39	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	0.09
CUSTOM SPRAY			Mepiquat	oz	0.05
App by Air (3 gal)	appl	7.50	Mepstar 6	oz	0.53
App by Air (5 gal)	appl	8.05	Palisade	oz	1.48
App by Air (10 gal)	appl	9.50	Pentia	oz	0.41
Custom Spray Ground	acre	8.65	Pix WSG	oz	1.16
DRYING			Stance	oz	1.50
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	7.75
Eradication	acre	1.00	Defol 5	gal	8.40
FERTILIZERS			Display	oz	10.59
Agrotain Ultra	pt	12.50	Ethephon 6E	pt	4.76
Amm Sulfate (21% N)	cwt	22.40	Finish 6	pt	11.17
Boron Plus	pt	3.77	Folex 6EC	pt	7.75
DAP	cwt	36.68	Freefall SC	oz	1.09
Fert 10-34-0	cwt	33.00	Ginstar EC	pt	29.72
Fert 10-34-0	gal	3.85	Gramoxone SL	oz	0.32
Fert 11-37-0	cwt	33.00	Sharpen	oz	7.46
Fert 41-0-0-4	cwt	38.00	Sodium Chlorate 5L	gal	8.40
Lime	ton	41.39	SuperBoll	oz	0.33
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.09
Phosphorus (46% P2O5)	cwt	29.10	Tribufos 6lb	pt	14.70
Potash (60% K2O)	cwt	27.09	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	21.78	Haul Corn	bu	0.31
UAN (32%)	gal	2.41	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	24.80	Haul Rice	bu	0.30
UAN + Sulfur (28%)	gal	2.76	Haul Sorghum	bu	0.35
Urea, Solid (46% N)	cwt	25.98	Haul Soybeans	bu	0.29
Zinc Plus	pt	3.63	Haul Wheat	bu	0.30
FUNGICIDES			HERBICIDES		
Abound	oz	1.29	2,4-D Amine 4	pt	2.23
Alfa Guard	lb	1.67	2,4-D Ester	pt	3.14
Allegiance Flowabl	oz	6.33	AAtrex 4L	pt	2.98
Ameristar Top	oz	2.76	Accent Q	oz	24.48
Approach Prima	pt	34.65	Acuron	oz	0.57
Apron Maxx RTA	oz	1.01			
Artisan	oz	0.70			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2025 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	7.34	Harmony Extra SG	oz	14.64
Aim 2EC	oz	7.34	Helmet	oz	0.61
Anthem Flex	oz	6.68	HighCard	oz	1.14
Anthem Maxx	oz	4.79	Huskie	oz	0.91
Armezon Pro	oz	1.22	Impact	oz	16.26
Atrazine 4L	pt	2.18	Intimidator	oz	0.64
Atrazine 90DF	lb	4.32	Leadoff	oz	6.55
Authority First	lb	48.45	League	oz	4.61
Authority Elite	pt	14.50	Lexar	pt	5.16
Authority Maxx	lb	43.48	Liberty 280	oz	0.46
Authority MTZ	lb	19.75	Loyant	oz	2.64
Avatar	pt	8.04	Makaze	oz	0.17
Avenger	pt	13.75	Metolachlor	pt	5.66
Axial XL	oz	1.71	Metribuzin 4L	pt	12.60
Axiom	oz	2.25	Metribuzin 75	lb	9.05
Banvel	pt	3.86	MSMA	pt	3.97
Barrage	pt	3.83	Newpath	oz	4.50
Basagran	pt	5.43	Obey	oz	1.12
Boundary	pt	10.19	Osprey	oz	4.70
Brake	oz	1.39	Outlook	pt	14.94
Broadaxe	pt	13.50	Panther Pro	oz	3.46
Broadhead	lb	58.21	Parallel	pt	4.52
Bucaneer Plus	pt	2.16	Paraquat	oz	0.13
Buctril	pt	4.28	Parazone 3SL	oz	0.61
Butyrac 200 (2,4-DB)	pt	3.38	Permit	oz	23.42
Cadre	oz	2.20	Permit Plus	oz	23.86
Callisto	oz	2.99	PowerFlex	oz	8.02
Canopy	oz	3.25	Preface	oz	0.55
Caparol	pt	5.00	Prefix	pt	7.54
Capreno	oz	4.10	Provisia	oz	0.92
Cinch	pt	14.18	Prowl 3.3 EC	pt	6.63
Cinch ATZ	pt	6.26	Quelex	oz	9.52
Clarity	pt	15.00	RealmQ	oz	4.97
Classic	oz	20.19	RebelEx	oz	2.23
Clearpath	oz	4.46	Reflex	pt	8.18
Clethodim 2E	oz	0.23	Regiment	oz	48.18
Clincher SF	oz	2.69	Resicore	oz	0.41
Cobra	oz	0.75	Resource	oz	2.30
Command 3ME	pt	14.95	RiceBeaux	pt	6.72
Corvus	oz	6.07	Riceshot	pt	4.68
Cotoran	pt	7.34	Ricestar HT	pt	27.50
Cotton Pro	pt	3.45	Ringside	pt	5.44
Dicamba	pt	4.20	Roundup Power Max	oz	0.18
Direx	pt	3.22	Roundup PowerMax	pt	2.85
Diuron	pt	3.09	Roundup PowerMax ii	oz	0.31
Dual II Magnum	pt	12.64	Roundup Pro	pt	0.20
Dual Magnum	pt	10.11	Scepter 70 DG	oz	6.04
Duet	pt	6.03	Select Max	pt	15.01
Engenia	oz	1.06	Sencor/Tricor.Metrib	lb	10.53
Enlist Duo	pt	6.89	Sequence	pt	7.72
Enlist One	pt	7.57	Sharpen	oz	7.46
Envive	oz	3.99	Sinister	pt	11.75
Envoke	oz	100.77	Sonic	oz	3.80
Facet L	pt	17.36	Stalwart	pt	6.39
Fierce	oz	7.75	Stam 80 EDF	lb	9.45
Fierce XLT	oz	4.74	Stam M4	qt	7.85
Finesse	oz	15.75	Staple LX	oz	8.28
Firestorm	pt	3.44	Storm	pt	12.97
First Rate	oz	34.50	Strada	oz	7.34
Flexstar	pt	8.98	Strada Pro	oz	7.49
Flexstar GT	pt	6.75	Strada XT2	oz	3.26
Fusilade DX	oz	1.06	Superwham	qt	9.39
Gambit	oz	18.07	Suprend	lb	13.52
Glyphosate 3lbs a.e	pt	1.85	SureStart II	oz	0.45
Glyphosate 3lbs a.e	oz	0.12	Surveil	oz	6.70
Goal 2XL	pt	8.40	Synchrony XP	oz	12.00
Gramoxone SL 2.0	oz	0.32	Tavium	gal	76.16
Grandstand R	pt	21.42	Tempest	pt	27.52
Grasp	oz	13.56	Touchdown Total	qt	10.21
Grasp Xtra	oz	1.72	Treflan	pt	3.65
Halex GT	pt	6.11			
Halomax	oz	21.28			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2025 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	3.65	Nuprid 4F	oz	1.16
Triflurex	pt	3.47	Oberon	oz	3.67
Ultra Blazer	pt	5.44	Orthene 97	lb	27.26
Valor EZ	oz	5.27	Permethrin	oz	0.58
Valor SX	oz	3.06	Portal XLO	oz	0.74
Valor XLT	oz	3.59	Pounce 25WP	lb	19.96
Vamos	pt	6.49	Prevathon	oz	1.47
Verdict	oz	1.54	Python WDG	oz	19.25
Veritas	pt	7.49	Radiant	oz	6.87
Villain	pt	5.24	Sevin SL	pt	12.25
Volunteer	pt	10.63	Sevin XLR Plus	qt	19.25
Warrant	pt	4.60	Sivanto Prime	oz	3.18
XtendiMax	oz	0.92	Tempest	oz	1.72
Zidua SC	oz	5.51	Tenchu SG	oz	1.19
Zidua WG	oz	7.30	Transform WG	oz	9.34
INOCULANT			Up-Cyde	oz	0.84
Inoculant -Soybean	acre	1.55	Warrior II ZT	oz	3.02
Optimize LIFT	oz	0.58	Zeal	oz	7.91
INSECTICIDES			IRRIGATION SUPPLIES		
Abamectin .15EC	oz	0.31	Roll-Out Pipe	ft	0.24
Acephate 90%	lb	6.75	SEED/PLANTS		
Acephate 90SP	lb	6.75	Corn Seed BtRR	thous	3.61
Admire Pro	oz	2.19	Corn Seed Conv.	thous	3.80
Agri-Mek	oz	3.24	Corn Seed Op Leptra	thous	4.95
Asana .66 XL	oz	0.51	Corn Seed RR2	thous	4.55
Avenger	oz	0.86	Corn Seed VT2P	thous	3.79
Baythroid XL	oz	1.22	Cot. Seed B3XF/W3FE	thous	3.23
Belt	oz	6.41	Cotton Seed B3TXF	thous	3.27
Besiege	oz	2.91	Cotton Seed GLB2	thous	1.89
Bidrin 8EC	oz	1.60	Cotton Seed ThryvOn	thous	3.64
Bifenthrin	oz	0.48	Cotton Seed W3FE	thous	3.18
Bifenture 2EC	oz	0.47	Cotton Seed W3RF	thous	1.50
Brigade EC	pt	20.45	Peanut Seed	lb	1.15
Capture LFR	oz	1.32	Rice Conv Hyb Trt	lb	6.31
Centric 40WG	oz	7.29	Rice Fullpage Hyb Tr	lb	6.34
Cypermethrin	oz	0.65	Rice Seed CF(Levees)	lb	1.30
Declare	oz	1.73	Rice Seed Clearfield	lb	1.28
Diamond .83EC	oz	2.25	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	8.51	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	2.45	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	2.04	Rice Seed FPH(Levee)	lb	6.34
Force 3G	lb	7.28	Rice Seed Max-Ace	lb	8.89
Hero	oz	1.36	Rice Seed Provisia	lb	1.32
Imidacloprid 4F	oz	0.48	Rice Seed Trt/Insect	lbseed	0.29
Imidan 70 WSB	oz	1.55	Sorghum Concept	lb	4.20
IncidentalPestTrt \$8	acre	8.00	Sorghum Concept+ Po	lb	4.16
IncidentalPestTrt\$15	acre	15.00	Soybean Enlist E3	lb	1.03
IncidentalPestTrt\$22	acre	22.00	Soybean Seed LL	lb	1.32
IncidentalPestTrt\$30	acre	30.00	Soybean Seed RR2	lb	1.15
Intrepid 2F	oz	2.28	Soybean Seed RR2X	lb	1.16
Intruder 70WSP	oz	1.13	Wheat Seed Private	lb	0.24
LambdaT	oz	2.10	SOIL TEST		
Lannate LV	pt	8.60	Soil Test	acre	10.00
Macho	oz	0.66	SURVEY & MARK LEVEES		
Malathion 8E	pt	9.84	Survey & Mark Levees	acre	4.50
Mustang Max	oz	1.48	Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2025

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.86
Gasoline	gal	2.96
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, 2025

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	18.69
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, 2025

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '25	4.57	-0.08	4.49	2.35	4.49
Cotton Lint	lb	Dec '25	0.7352	-0.0151	0.7201	0.52	0.7201
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				4.27	4.09	4.27
Peanuts	ton				475.00	354.89	475.00
Soybeans	bu	Nov '25	10.88	-0.01	10.87	6.41 ⁵	10.87
Rice	bu	Nov '25	6.16	-0.16	5.44	3.21	6.00
Wheat	bu	Jul '25	6.41	-0.14	6.27	3.60	6.27

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2024 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 2024 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 2024 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2024 Farm-stored Loan Rate for long grain rough rice. National 2024 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 2008-2024.

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, 2025

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		0.40	0.15	0.30		0.04	0.89	1.10	1.99
Survey & Mark Levees	acre	4.50					0.19	4.69		4.69
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.07	0.40	0.80		0.09	2.36	2.95	5.31
Butt Levees										
Blade-Box	6'-7'		0.50	0.16	0.37		0.04	1.07	1.07	2.14
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"		0.83	0.29	0.62		0.02	1.76	2.16	3.92
Tear Down Levees										
Levee Splitter (1/80)	32"		0.31	0.10	0.23		0.01	0.65	0.81	1.46
Land Forming (\$113)	each								11.04	11.04
Levee Gates	each								0.70	0.70
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, Rice CL, 75	each								23.64	23.64
May Irrigation	ac-in		13.98	1.53			0.64	16.15		16.15
June Irrigation	ac-in		20.97	2.29			0.80	24.06		24.06
July Irrigation	ac-in		20.97	2.29			0.64	23.90		23.90
August Irrigation	ac-in		20.97	2.29			0.48	23.74		23.74
TOTALS		4.50	80.00	15.41	34.28	0.00	4.16	138.35	67.53	205.88

Note: Cost of production estimates are based on 2024 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, 2025

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		0.80	0.30	0.60			0.07	1.77	2.21
Butt Levees										
Blade-Box	6'-7'		0.50	0.16	0.37			0.04	1.07	1.07
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"		0.63	0.22	0.47			0.02	1.34	1.61
Land Forming (\$450)	each								43.97	43.97
Levee Gates	each								0.70	0.70
Well & Pump, Flood	each			5.91				0.20	6.11	24.06
Engine, Rice SL, 75	each								23.64	23.64
May Irrigation	ac-in		13.98	1.86				0.65	16.49	16.49
June Irrigation	ac-in		16.31	2.18				0.64	19.13	19.13
July Irrigation	ac-in		16.31	2.18				0.51	19.00	19.00
August Irrigation	ac-in		16.31	2.18				0.38	18.87	18.87
TOTALS		2.25	64.84	14.99	22.96	0.00	3.28	108.32	97.26	205.58

Note: Cost of production estimates are based on 2024 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, 2025

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
Survey & Mark Levees	acre	2.25					0.09	2.34	2.34
Build Inside Levees									
Levee Pull (1m/80a)	8 blade		0.80	0.30	0.60		0.07	1.77	3.98
Butt Levees									
Blade-Box	6'-7'		0.50	0.16	0.37		0.04	1.07	2.14
IRRIGATE LABOR	hour				0.68		0.03	0.71	0.71
Ditcher (1m/160a)			0.23	0.09	0.18		0.02	0.52	1.05
Roll-Out Pipe	ft	7.92					0.33	8.25	8.25
Lay Roll-out Pipe									
Pipe Spool 160ac	1/4m roll		0.31	0.13	0.46		0.04	0.94	2.25
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"		0.63	0.22	0.47		0.02	1.34	2.95
Pick Up Pipe									
Pipe Spool 160ac	1/4m roll		0.16	0.06	0.23		0.01	0.46	1.12
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		11.65	1.75			0.55	13.95	13.95
June Irrigation	ac-in		13.98	2.10			0.55	16.63	16.63
July Irrigation	ac-in		13.98	2.10			0.44	16.52	16.52
August Irrigation	ac-in		13.98	2.10			0.33	16.41	16.41
TOTALS		10.17	56.22	14.92	12.49	0.00	3.03	96.83	196.24

Note: Cost of production estimates are based on 2024 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, 2025

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
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	30.17
Engine, Rice SL, 75	each								23.64	23.64
May Irrigation	ac-in		9.32	1.24				0.44	11.00	11.00
June Irrigation	ac-in		11.65	1.55				0.45	13.65	13.65
July Irrigation	ac-in		11.65	1.55				0.36	13.56	13.56
August Irrigation	ac-in		11.65	1.55				0.27	13.47	13.47
TOTALS		0.00	44.27	11.80	9.53	0.00	2.02	67.62	91.67	159.29

Note: Cost of production estimates are based on 2024 input prices.

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