

**DELTA
2016
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2015-05**

October 2015

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 2016 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.

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2016 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. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2015. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

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 operation.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2015 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

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

Net Returns

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

Enterprise Budgets

Table 1.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	_____
App by Air (3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	_____
Ethephon 6E	pt	4.69	2.3125	10.85	_____
Tribufos 6lb	pt	9.90	0.5000	4.95	_____
GINNING					
Gin & Haul	lb	0.11	1100.0000	121.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
UAN (32% N)	cwt	15.95	4.0000	63.80	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Select Max	pt	12.35	1.0000	12.35	_____
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	_____
Reflex 2LC	pt	6.30	1.0000	6.30	_____
Cotoran 4L	pt	5.99	2.0000	11.98	_____
Dual Magnum	pt	13.01	2.0000	26.02	_____
Diuron 4L	pt	4.15	1.6000	6.64	_____
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	_____
Centric 40WG	oz	4.95	2.0000	9.90	_____
Diamond .83EC	oz	1.33	6.0000	7.98	_____
Admire Pro	oz	2.95	2.0000	5.90	_____
Bifenthrin	oz	0.89	12.8000	11.39	_____
Karate Z	oz	2.80	0.5000	1.40	_____
Bidrin 8WM	oz	1.09	2.0000	2.18	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
Transform WG	oz	7.74	1.5000	11.61	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	32.0000	3.52	_____
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	1.1055	14.81	_____
Self-Propelled	hour	13.40	0.3459	4.65	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.3018	2.74	_____
UNALLOCATED LABOR					
	hour	13.40	1.1611	15.56	_____
DIESEL FUEL					
Tractors	gal	2.00	12.8036	25.61	_____
Self-Propelled	gal	2.00	5.4372	10.89	_____
REPAIR & MAINTENANCE					
Implements	acre	11.07	1.0000	11.07	_____
Tractors	acre	7.88	1.0000	7.88	_____
Self-Propelled	acre	14.94	1.0000	14.94	_____
INTEREST ON OP. CAP.	acre	14.24	1.0000	14.24	_____
TOTAL DIRECT EXPENSES				774.62	_____
FIXED EXPENSES					
Implements	acre	18.07	1.0000	18.07	_____
Tractors	acre	49.60	1.0000	49.60	_____
Self-Propelled	acre	61.18	1.0000	61.18	_____
TOTAL FIXED EXPENSES				128.85	_____
TOTAL SPECIFIED EXPENSES				903.47	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.B Summary of estimated costs and returns per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	1100.0000	660.00	_____
Cotton Seed	lb	0.11	1650.0000	188.10	_____

TOTAL INCOME				848.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	121.00	1.0000	121.00	_____
FERTILIZERS	acre	95.71	1.0000	95.71	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	117.42	1.0000	117.42	_____
INSECTICIDES	acre	79.14	1.0000	79.14	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.52	1.0000	3.52	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.7509	6.81	_____
OPERATOR LABOR	hour	13.40	1.4514	19.46	_____
UNALLOCATED LABOR	hour	13.40	1.1611	15.56	_____
DIESEL FUEL	gal	2.00	18.2409	36.50	_____
REPAIR & MAINTENANCE	acre	33.89	1.0000	33.89	_____
INTEREST ON OP. CAP.	acre	14.24	1.0000	14.24	_____

TOTAL DIRECT EXPENSES				774.62	_____
RETURNS ABOVE DIRECT EXPENSES				73.48	_____

TOTAL FIXED EXPENSES				128.85	_____

TOTAL SPECIFIED EXPENSES				903.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-55.37	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill	8R-38	MFWD 225	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 225	0.074	0.50	Nov		0.03	0.03	0.03	0.02
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Fert Appl (Liquid)	8R-38	MFWD 225	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 225	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 225	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 225	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38 (350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38 (350)	MFWD 225	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38 (350)	MFWD 225	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	1100.0000				
Stalk Shredder-Flail	15'	MFWD 225	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.45	1.10	2.20	1.16

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Bed-Paratill Fold	8R-38		1.87	2.17	1.95			0.27	6.26	6.37	12.63
Bed/Disk (Hipper)Rd	8R-38		0.86	0.43	0.90			0.10	2.29	2.12	4.41
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Clarity	pt	6.45						0.19	6.64		6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Select Max	pt	12.35						0.37	12.72		12.72
Fert Appl (Liquid)	8R-38		1.80	1.32	2.22			0.14	5.48	4.35	9.83
UAN (32% N)	cwt	31.90						0.84	32.74		32.74
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08	2.10
Gramoxone SL 2.0	oz	14.88						0.39	15.27		15.27
Reflex 2LC	pt	6.30						0.17	6.47		6.47
Surfactant	pt	1.07						0.03	1.10		1.10
Row Cond Rigid	26'		1.38	0.64	1.44			0.08	3.54	3.57	7.11
Plant & Pre-Rigid	8R-38		1.86	1.70	2.67			0.14	6.37	5.77	12.14
Cotton Seed B2RF	thous	32.40						0.73	33.13		33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56		68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45		20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Cotoran 4L	pt	11.98						0.27	12.25		12.25
Surfactant	pt	1.07						0.02	1.09		1.09
Cotton Consultant	acre	8.00						0.18	8.18		8.18
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	5.59						0.13	5.72		5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Centric 40WG	oz	9.90						0.19	10.09		10.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Fert Appl (Liquid)	8R-38		1.80	1.32	2.22			0.10	5.44	4.35	9.79
UAN (32% N)	cwt	31.90						0.60	32.50		32.50
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Diamond .83EC	oz	7.98						0.15	8.13		8.13
Admire Pro	oz	5.90						0.11	6.01		6.01
Spray (Direct/Layby)	8R-38		1.55	0.76	1.92			0.06	4.29	3.34	7.63
Diuron 4L	pt	6.64						0.10	6.74		6.74
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Acephate 90%	lb	5.59						0.08	5.67		5.67
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Bifenthrin	oz	5.70						0.09	5.79		5.79
App by Air (3 gal)	appl	1.25						0.02	1.27		1.27
Karate Z	oz	1.40						0.02	1.42		1.42
Bidrin 8WM	oz	2.18						0.03	2.21		2.21
Incidental Pest											
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Incidental Pest Trt	acre	12.00						0.18	12.18		12.18
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.59						0.06	5.65		5.65
Bifenthrin	oz	5.70						0.06	5.76		5.76
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Transform WG	oz	11.61						0.13	11.74		11.74
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83		1.83
Ethephon 6E	pt	9.38						0.07	9.45		9.45
App by Air (5 gal)	appl	3.25						0.02	3.27		3.27
Ethephon 6E	pt	1.47						0.01	1.48		1.48
Tribufos 6lb	pt	4.95						0.04	4.99		4.99
Cotton Picker	4R-38(350)		9.29	14.14	8.55			0.12	32.10	55.78	87.88
Boll Buggy	4R-38(350)		5.97	3.81	6.21			0.06	16.05	15.57	31.62
Module Builder	4R-38(350)		5.97	4.08	8.55			0.07	18.67	16.12	34.79
Gin & Haul	lb	121.00						0.45	121.45		121.45
Stalk Shredder-Flail	15'		2.55	2.72	2.65			0.03	7.95	6.11	14.06
TOTALS		648.16	36.50	33.89	41.83	0.00	14.24	774.62	128.85	903.47	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	848.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.00
FERTILIZERS	31.91	0.00	0.00	0.00	0.00	31.90	0.00	31.90	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	0.00	11.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	26.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.85	0.00	0.00	0.00	0.00	2.73	5.64	2.73	1.92	0.00	0.00	25.96
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	2.73	0.00	0.00	0.00	0.00	2.12	4.20	2.12	1.55	0.00	0.00	23.78
REPAIR & MAINTENANCE	2.60	0.00	0.00	0.00	0.00	1.48	2.82	1.48	0.76	0.00	0.00	24.75
INTEREST ON OP. CAP.	3.65	0.00	0.00	0.00	0.88	1.60	4.70	1.29	0.82	0.37	0.20	0.73
TOTAL DIRECT EXPENSES	84.40	0.00	0.00	0.00	30.66	62.08	214.31	70.06	56.05	33.27	27.57	196.22
NET INCOME	-84.40	0.00	0.00	0.00	-30.66	-62.08	-214.31	-70.06	-56.05	-33.27	-27.57	651.88
NET INCOME TO DATE	-84.40	-84.40	-84.40	-84.40	-115.06	-177.14	-391.45	-461.51	-517.56	-550.83	-578.40	73.48

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2016

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75
PERCENT	YIELD	UNIT	dollars										
50	550.00	lb	-278 -407	-261 -390	-245 -374	-228 -357	-212 -341	-195 -324	-179 -308	-162 -291	-146 -275	-129 -258	-113 -242
60	660.00	lb	-240 -369	-221 -349	-201 -330	-181 -310	-161 -290	-141 -270	-122 -250	-102 -231	-82 -211	-62 -191	-42 -171
70	770.00	lb	-203 -332	-180 -309	-157 -286	-134 -263	-111 -240	-88 -216	-64 -193	-41 -170	-18 -147	4 -124	27 -101
80	880.00	lb	-166 -295	-139 -268	-113 -242	-87 -215	-60 -189	-34 -163	-7 -136	18 -110	44 -83	71 -57	97 -31
90	990.00	lb	-128 -257	-99 -228	-69 -198	-39 -168	-10 -138	19 -109	49 -79	79 -49	108 -20	138 9	168 39
100	1100.00	lb	-91 -220	-58 -187	-25 -154	7 -121	40 -88	73 -55	106 -22	139 10	172 43	205 76	238 109
110	1210.00	lb	-54 -183	-17 -146	18 -110	54 -74	91 -37	127 -1	163 34	199 71	236 107	272 143	308 179
120	1320.00	lb	-16 -145	22 -106	62 -66	101 -26	141 12	181 52	220 91	260 131	299 171	339 210	379 250
130	1430.00	lb	20 -108	63 -65	106 -22	149 20	192 63	235 106	277 149	320 191	363 234	406 277	449 320
140	1540.00	lb	57 -70	104 -24	150 21	196 67	242 113	288 160	335 206	381 252	427 298	473 344	519 391
150	1650.00	lb	95 -33	144 15	194 65	243 114	293 164	342 213	392 263	441 312	491 362	540 411	590 461

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 2015 input prices.

Table 2.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	_____
App by Air (3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	_____
Ethephon 6E	pt	4.69	2.3125	10.85	_____
Tribufos 6lb	pt	9.90	0.5000	4.95	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Urea, Solid (46% N)	cwt	20.83	1.5000	31.24	_____
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
UAN (32% N)	cwt	15.95	2.0000	31.90	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Select Max	pt	12.35	1.0000	12.35	_____
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	_____
Reflex 2LC	pt	6.30	1.0000	6.30	_____
Cotoran 4L	pt	5.99	2.0000	11.98	_____
Dual Magnum	pt	13.01	2.0000	26.02	_____
Diuron 4L	pt	4.15	1.6000	6.64	_____
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	_____
Centric 40WG	oz	4.95	2.0000	9.90	_____
Diamond .83EC	oz	1.33	6.0000	7.98	_____
Admire Pro	oz	2.95	2.0000	5.90	_____
Bifenthrin	oz	0.89	12.8000	11.39	_____
Karate Z	oz	2.80	0.5000	1.40	_____
Bidrin 8WM	oz	1.09	2.0000	2.18	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
Transform WG	oz	7.74	1.5000	11.61	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	32.0000	3.52	_____
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.9134	12.23	_____
Self-Propelled	hour	13.40	0.3459	4.65	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.3018	2.74	_____
UNALLOCATED LABOR					
	hour	13.39	1.0074	13.50	_____
DIESEL FUEL					
Tractors	gal	2.00	10.5787	21.16	_____
Self-Propelled	gal	2.00	5.4372	10.89	_____
REPAIR & MAINTENANCE					
Implements	acre	8.70	1.0000	8.70	_____
Tractors	acre	6.52	1.0000	6.52	_____
Self-Propelled	acre	14.94	1.0000	14.94	_____
INTEREST ON OP. CAP.	acre	14.28	1.0000	14.28	_____
TOTAL DIRECT EXPENSES				738.86	_____
FIXED EXPENSES					
Implements	acre	14.30	1.0000	14.30	_____
Tractors	acre	40.99	1.0000	40.99	_____
Self-Propelled	acre	61.18	1.0000	61.18	_____
TOTAL FIXED EXPENSES				116.47	_____
TOTAL SPECIFIED EXPENSES				855.33	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	900.0000	540.00	_____
Cotton Seed	lb	0.11	1350.0000	153.90	_____

TOTAL INCOME				693.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	95.05	1.0000	95.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	117.42	1.0000	117.42	_____
INSECTICIDES	acre	79.14	1.0000	79.14	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.52	1.0000	3.52	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.7155	6.49	_____
OPERATOR LABOR	hour	13.40	1.2593	16.88	_____
UNALLOCATED LABOR	hour	13.39	1.0074	13.50	_____
DIESEL FUEL	gal	2.00	16.0159	32.05	_____
REPAIR & MAINTENANCE	acre	30.16	1.0000	30.16	_____
INTEREST ON OP. CAP.	acre	14.28	1.0000	14.28	_____

TOTAL DIRECT EXPENSES				738.86	_____
RETURNS ABOVE DIRECT EXPENSES				-44.96	_____

TOTAL FIXED EXPENSES				116.47	_____

TOTAL SPECIFIED EXPENSES				855.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-161.43	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Urea, Solid (46% N)	cwt					1.5000				
Potash (60% K2O)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 225	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant&Pre-Rigid	8R-38	MFWD 225	0.083	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 225	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 225	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38 (350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38 (350)	MFWD 225	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38 (350)	MFWD 225	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 225	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.25	0.91	1.97	1.00

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2016

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						0.15	3.45	3.45
Lime (Spread)	ton	30.36						1.37	31.73	31.73
Custom Apply Fert	acre	7.00						0.32	7.32	7.32
Urea, Solid (46% N)	cwt	31.24						1.41	32.65	32.65
Potash (60% K2O)	cwt	31.91						1.44	33.35	33.35
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Clarity	pt	6.45						0.19	6.64	6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Select Max	pt	12.35						0.37	12.72	12.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08
Gramoxone SL 2.0	oz	14.88						0.39	15.27	15.27
Reflex 2LC	pt	6.30						0.17	6.47	6.47
Surfactant	pt	1.07						0.03	1.10	1.10
Row Cond Rigid	26'		1.38	0.64	1.44			0.08	3.54	3.57
NT Plant&Pre-Rigid	8R-38		1.94	1.89	2.78			0.15	6.76	6.23
Cotton Seed B2RF	thous	32.40						0.73	33.13	33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56	68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45	20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Gramoxone SL 2.0	oz	14.88						0.33	15.21	15.21
Cotoran 4L	pt	11.98						0.27	12.25	12.25
Surfactant	pt	1.07						0.02	1.09	1.09
Cotton Consultant	acre	8.00						0.18	8.18	8.18
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Dual Magnum	pt	13.01						0.29	13.30	13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Acephate 90%	lb	5.59						0.13	5.72	5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Dual Magnum	pt	13.01						0.29	13.30	13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Centric 40WG	oz	9.90						0.19	10.09	10.09
Mepiquat Chloride	oz	1.76						0.03	1.79	1.79
Fert Appl (Liquid)	8R-38		1.80	1.32	2.22			0.10	5.44	4.35
UAN (32% N)	cwt	31.90						0.60	32.50	32.50
App by Air (3 gal)	appl	5.00						0.09	5.09	5.09
Diamond .83EC	oz	7.98						0.15	8.13	8.13
Admire Pro	oz	5.90						0.11	6.01	6.01
Spray (Direct/Layby)	8R-38		1.55	0.76	1.92			0.08	4.31	3.34
Diuron 4L	pt	6.64						0.12	6.76	6.76
Glyphosate 3lbs a.e	oz	4.48						0.08	4.56	4.56
App by Air (3 gal)	appl	5.00						0.07	5.07	5.07
Acephate 90%	lb	5.59						0.08	5.67	5.67
Mepiquat Chloride	oz	1.76						0.03	1.79	1.79
Bifenthrin	oz	5.70						0.09	5.79	5.79
App by Air (3 gal)	appl	1.25						0.02	1.27	1.27
Karate Z	oz	1.40						0.02	1.42	1.42
Bidrin 8WM	oz	2.18						0.03	2.21	2.21
Incidental Pest										
App by Air (3 gal)	appl	5.00						0.07	5.07	5.07
Incidental Pest Trt	acre	12.00						0.18	12.18	12.18
App by Air (3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.59						0.06	5.65	5.65
Bifenthrin	oz	5.70						0.06	5.76	5.76
App by Air (3 gal)	appl	5.00						0.06	5.06	5.06
Transform WG	oz	11.61						0.13	11.74	11.74
App by Air (5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83	1.83
Ethephon 6E	pt	9.38						0.07	9.45	9.45
App by Air (5 gal)	appl	3.25						0.02	3.27	3.27
Ethephon 6E	pt	1.47						0.01	1.48	1.48
Tribufos 6lb	pt	4.95						0.04	4.99	4.99
Cotton Picker	4R-38(350)		9.29	14.14	8.55			0.12	32.10	55.78
Boll Buggy	4R-38(350)		5.97	3.81	6.21			0.06	16.05	15.57
Module Builder	4R-38(350)		5.97	4.08	8.55			0.07	18.67	16.12
Gin & Haul	lb	99.00						0.37	99.37	99.37
Stalk Shredder-Flail	15'		2.55	2.72	2.65			0.03	7.95	6.11
TOTALS		625.50	32.05	30.16	36.87	0.00	14.28	738.86	116.47	855.33

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	693.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	63.15	0.00	0.00	0.00	0.00	0.00	0.00	31.90	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	11.12	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	26.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.51	5.75	4.65	0.00	0.00	0.00	25.96
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.32	4.28	3.67	0.00	0.00	0.00	23.78
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.16	3.01	2.24	0.00	0.00	0.00	24.75
INTEREST ON OP. CAP.	4.69	0.00	0.00	0.00	0.88	0.62	4.71	1.57	0.59	0.37	0.20	0.65
TOTAL DIRECT EXPENSES	108.50	0.00	0.00	0.00	30.66	23.86	214.70	85.69	40.47	33.27	27.57	174.14
NET INCOME	-108.50	0.00	0.00	0.00	-30.66	-23.86	-214.70	-85.69	-40.47	-33.27	-27.57	519.76
NET INCOME TO DATE	-108.50	-108.50	-108.50	-108.50	-139.16	-163.02	-377.72	-463.41	-503.88	-537.15	-564.72	-44.96

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-332	-319	-305	-292	-278	-265	-251	-238	-224	-211	-197
			-449	-435	-422	-408	-395	-381	-368	-354	-341	-327	-314
60	540.00	lb	-302	-286	-269	-253	-237	-221	-205	-188	-172	-156	-140
			-418	-402	-386	-370	-353	-337	-321	-305	-289	-272	-256
70	630.00	lb	-271	-252	-233	-214	-196	-177	-158	-139	-120	-101	-82
			-388	-369	-350	-331	-312	-293	-274	-255	-236	-218	-199
80	720.00	lb	-241	-219	-197	-176	-154	-133	-111	-89	-68	-46	-25
			-357	-335	-314	-292	-271	-249	-227	-206	-184	-163	-141
90	810.00	lb	-210	-186	-161	-137	-113	-89	-64	-40	-16	8	32
			-326	-302	-278	-254	-229	-205	-181	-156	-132	-108	-83
100	900.00	lb	-179	-152	-125	-98	-71	-44	-17	9	36	63	90
			-296	-269	-242	-215	-188	-161	-134	-107	-80	-53	-26
110	990.00	lb	-149	-119	-89	-60	-30	-0	28	58	88	117	147
			-265	-236	-206	-176	-147	-117	-87	-57	-28	1	31
120	1080.00	lb	-118	-86	-54	-21	10	43	75	107	140	172	205
			-235	-202	-170	-138	-105	-73	-40	-8	23	56	88
130	1170.00	lb	-88	-53	-18	17	52	87	122	157	192	227	262
			-204	-169	-134	-99	-64	-29	5	40	76	111	146
140	1260.00	lb	-57	-19	17	55	93	131	169	206	244	282	320
			-174	-136	-98	-60	-22	14	52	90	128	166	203
150	1350.00	lb	-27	13	53	94	134	175	215	256	296	337	377
			-143	-103	-62	-22	18	58	99	139	180	220	261

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 2015 input prices.

Table 3.A Estimated costs per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	_____
App by Air (3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	_____
Ethephon 6E	pt	4.69	2.3125	10.85	_____
Tribufos 6lb	pt	9.90	0.5000	4.95	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.3500	28.71	_____
UAN (32% N)	cwt	15.95	3.6000	57.42	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	_____
Glyphosate 3lbs a.e	oz	0.14	106.8800	14.96	_____
Select Max	pt	12.35	1.0000	12.35	_____
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	_____
Reflex 2LC	pt	6.30	1.0000	6.30	_____
Cotoran 4L	pt	5.99	2.0000	11.98	_____
Dual Magnum	pt	13.01	1.6700	21.73	_____
Diuron 4L	pt	4.15	1.1000	4.57	_____
INSECTICIDES					
Acephate 90%	lb	7.45	2.0000	14.90	_____
Centric 40WG	oz	4.95	1.3400	6.63	_____
Diamond .83EC	oz	1.33	6.0000	7.98	_____
Admire Pro	oz	2.95	2.0000	5.90	_____
Bifenthrin	oz	0.89	12.8000	11.39	_____
Karate Z	oz	2.80	0.5000	1.40	_____
Bidrin 8WM	oz	1.09	2.0000	2.18	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
Transform WG	oz	7.74	1.5000	11.61	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	30.0000	21.60	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	30.0000	44.70	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	26.7200	2.94	_____
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.8643	11.59	_____
Self-Propelled	hour	13.40	0.2252	3.03	_____
HAND LABOR					
Implements	hour	9.06	0.3442	3.10	_____
Self-Propelled	hour	9.06	0.1987	1.80	_____
UNALLOCATED LABOR	hour	13.41	0.8716	11.69	_____
DIESEL FUEL					
Tractors	gal	2.00	10.0101	20.03	_____
Self-Propelled	gal	2.00	3.5802	7.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.08	1.0000	10.08	_____
Tractors	acre	6.17	1.0000	6.17	_____
Self-Propelled	acre	10.09	1.0000	10.09	_____
INTEREST ON OP. CAP.	acre	12.38	1.0000	12.38	_____
TOTAL DIRECT EXPENSES				649.14	_____
FIXED EXPENSES					
Implements	acre	16.09	1.0000	16.09	_____
Tractors	acre	38.79	1.0000	38.79	_____
Self-Propelled	acre	41.17	1.0000	41.17	_____
TOTAL FIXED EXPENSES				96.05	_____
TOTAL SPECIFIED EXPENSES				745.19	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	811.0000	486.60	_____
Cotton Seed	lb	0.11	1217.0000	138.74	_____

TOTAL INCOME				625.34	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	86.13	1.0000	86.13	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	108.10	1.0000	108.10	_____
INSECTICIDES	acre	74.01	1.0000	74.01	_____
SEED/PLANTS	acre	21.60	1.0000	21.60	_____
TECHNOLOGY FEE	acre	44.70	1.0000	44.70	_____
GROWTH REGULATORS	acre	2.94	1.0000	2.94	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.5429	4.90	_____
OPERATOR LABOR	hour	13.40	1.0895	14.62	_____
UNALLOCATED LABOR	hour	13.41	0.8716	11.69	_____
DIESEL FUEL	gal	2.00	13.5904	27.20	_____
REPAIR & MAINTENANCE	acre	26.34	1.0000	26.34	_____
INTEREST ON OP. CAP.	acre	12.38	1.0000	12.38	_____

TOTAL DIRECT EXPENSES				649.14	_____
RETURNS ABOVE DIRECT EXPENSES				-23.80	_____
TOTAL FIXED EXPENSES					
				96.05	_____

TOTAL SPECIFIED EXPENSES				745.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-119.85	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.3500				
Bed-Paratill	8R-38 2x1	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					1.8000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	8R-38 2x1	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					30.0000				
B2RF Cot Tech Fee	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	May		0.04	0.04	0.06	0.03
Dual Magnum	pt					0.6700				
Glyphosate 3lbs a.e	oz					21.4400				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
Fert Appl (Liquid)	8R-38 2x1	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					1.8000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 4L	pt					1.1000				
Glyphosate 3lbs a.e	oz					21.4400				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1 (350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1 (350)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 225	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.08	0.86	1.63	0.87

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Potash (60% K2O)	cwt	28.71						1.29	30.00		30.00
Bed-Paratill Fold	8R-38 2x1		1.25	1.72	1.30			0.19	4.46	4.74	9.20
Bed/Disk (Hipper)	8R-38 2x1		0.57	0.37	0.59			0.07	1.60	1.62	3.22
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Clarity	pt	6.45						0.19	6.64		6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Select Max	pt	12.35						0.37	12.72		12.72
Fert Appl (Liquid)	8R-38 2x1		1.20	0.97	1.47			0.10	3.74	3.00	6.74
UAN (32% N)	cwt	28.71						0.75	29.46		29.46
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08	2.10
Gramoxone SL 2.0	oz	14.88						0.39	15.27		15.27
Reflex 2LC	pt	6.30						0.17	6.47		6.47
Surfactant	pt	1.07						0.03	1.10		1.10
Row Cond Folding	38'		0.95	0.54	0.99			0.06	2.54	2.89	5.43
Plant & Pre-Folding	8R-38 2x1		1.24	1.96	1.77			0.11	5.08	5.42	10.50
Cotton Seed B2RF	thous	21.60						0.49	22.09		22.09
B2RF Cot Tech Fee	thous	44.70						1.01	45.71		45.71
Cotton Seed Trt.	acre	13.40						0.30	13.70		13.70
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Cotoran 4L	pt	11.98						0.27	12.25		12.25
Surfactant	pt	1.07						0.02	1.09		1.09
Cotton Consultant	acre	8.00						0.18	8.18		8.18
Eradication	acre	1.00						0.02	1.02		1.02
Spray (Direct/Layby)	8R-38 2x1		1.03	0.58	1.28			0.07	2.96	2.31	5.27
Dual Magnum	pt	8.72						0.20	8.92		8.92
Glyphosate 3lbs a.e	oz	3.00						0.07	3.07		3.07
Acephate 90%	lb	3.73						0.08	3.81		3.81
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Spray (Direct/Layby)	8R-38 2x1		1.03	0.58	1.28			0.05	2.94	2.31	5.25
Centric 40WG	oz	6.63						0.12	6.75		6.75
Mepiquat Chloride	oz	1.18						0.02	1.20		1.20
Fert Appl (Liquid)	8R-38 2x1		1.20	0.97	1.47			0.07	3.71	3.00	6.71
UAN (32% N)	cwt	28.71						0.54	29.25		29.25
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Diamond .83EC	oz	7.98						0.15	8.13		8.13
Admire Pro	oz	5.90						0.11	6.01		6.01
Spray (Direct/Layby)	8R-38 2x1		1.03	0.58	1.28			0.04	2.93	2.31	5.24
Diuron 4L	pt	4.57						0.07	4.64		4.64
Glyphosate 3lbs a.e	oz	3.00						0.05	3.05		3.05
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Acephate 90%	lb	5.59						0.08	5.67		5.67
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Bifenthrin	oz	5.70						0.09	5.79		5.79
App by Air (3 gal)	appl	1.25						0.02	1.27		1.27
Karate Z	oz	1.40						0.02	1.42		1.42
Bidrin 8WM	oz	2.18						0.03	2.21		2.21
Incidental Pest											
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Incidental Pest Trt	acre	12.00						0.18	12.18		12.18
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.59						0.06	5.65		5.65
Bifenthrin	oz	5.70						0.06	5.76		5.76
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Transform WG	oz	11.61						0.13	11.74		11.74
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83		1.83
Ethephon 6E	pt	9.38						0.07	9.45		9.45
App by Air (5 gal)	appl	3.25						0.02	3.27		3.27
Ethephon 6E	pt	1.47						0.01	1.48		1.48
Tribufos 6lb	pt	4.95						0.04	4.99		4.99
Cotton Picker	4R2x1 (350)		6.21	9.61	5.72			0.08	21.62	37.93	59.55
Boll Buggy	4R2x1 (350)		3.99	2.54	4.16			0.04	10.73	10.40	21.13
Module Builder	4R2x1 (350)		3.99	2.72	5.72			0.05	12.48	10.77	23.25
Gin & Haul	lb	89.21						0.33	89.54		89.54
Stalk Shredder-Flail	15'		2.55	2.72	2.65			0.03	7.95	6.11	14.06
TOTALS		552.01	27.20	26.34	31.21	0.00	12.38	649.14	96.05	745.19	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	625.34
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.21
FERTILIZERS	28.71	0.00	0.00	0.00	0.00	28.71	0.00	28.71	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	56.07	0.00	7.57	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	3.73	20.51	26.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	44.70	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.89	0.00	0.00	0.00	0.00	1.98	5.06	2.75	1.28	0.00	0.00	18.25
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.82	0.00	0.00	0.00	0.00	1.52	3.86	2.23	1.03	0.00	0.00	16.74
REPAIR & MAINTENANCE	2.09	0.00	0.00	0.00	0.00	1.13	3.40	1.55	0.58	0.00	0.00	17.59
INTEREST ON OP. CAP.	3.39	0.00	0.00	0.00	0.88	1.47	3.64	1.15	0.75	0.37	0.20	0.53
TOTAL DIRECT EXPENSES	78.56	0.00	0.00	0.00	30.66	57.06	165.53	63.08	51.09	33.27	27.57	142.32
NET INCOME	-78.56	0.00	0.00	0.00	-30.66	-57.06	-165.53	-63.08	-51.09	-33.27	-27.57	483.02
NET INCOME TO DATE	-78.56	-78.56	-78.56	-78.56	-109.22	-166.28	-331.81	-394.89	-445.98	-479.25	-506.82	-23.80

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75		
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-283	-270	-258	-246	-234	-222	-210	-198	-185	-173	-161
			-379	-367	-354	-342	-330	-318	-306	-294	-281	-269	-257
60	486.60	lb	-255	-241	-226	-211	-197	-182	-168	-153	-138	-124	-109
			-351	-337	-322	-307	-293	-278	-264	-249	-234	-220	-205
70	567.70	lb	-228	-211	-194	-176	-159	-142	-125	-108	-91	-74	-57
			-324	-307	-290	-273	-255	-238	-221	-204	-187	-170	-153
80	648.80	lb	-200	-181	-161	-142	-122	-103	-83	-64	-44	-25	-5
			-296	-277	-257	-238	-218	-199	-179	-160	-140	-121	-101
90	729.90	lb	-172	-151	-129	-107	-85	-63	-41	-19	2	24	45
			-269	-247	-225	-203	-181	-159	-137	-115	-93	-71	-50
100	811.00	lb	-145	-121	-96	-72	-48	-23	0	24	49	73	97
			-241	-217	-192	-168	-144	-119	-95	-71	-46	-22	1
110	892.10	lb	-117	-91	-64	-37	-10	15	42	69	96	122	149
			-213	-187	-160	-133	-106	-80	-53	-26	0	26	53
120	973.20	lb	-90	-61	-31	-2	26	55	84	114	143	172	201
			-186	-157	-128	-98	-69	-40	-11	17	47	76	105
130	1054.30	lb	-62	-31	0	32	63	95	126	158	190	221	253
			-158	-127	-95	-63	-32	-0	30	62	94	125	157
140	1135.40	lb	-35	-1	32	66	100	135	169	203	237	271	305
			-131	-97	-63	-29	4	38	73	107	141	175	209
150	1216.50	lb	-7	28	65	101	138	174	211	247	284	320	357
			-103	-67	-30	5	42	78	115	151	188	224	261

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 2015 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	_____
App by Air (3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	_____
Ethephon 6E	pt	4.69	2.3125	10.85	_____
Tribufos 6lb	pt	9.90	0.5000	4.95	_____
GINNING					
Gin & Haul	lb	0.11	1100.0000	121.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
UAN (32% N)	cwt	15.95	4.0000	63.80	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Select Max	pt	12.35	1.0000	12.35	_____
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	_____
Reflex 2LC	pt	6.30	1.0000	6.30	_____
Cotoran 4L	pt	5.99	2.0000	11.98	_____
Dual Magnum	pt	13.01	2.0000	26.02	_____
Diuron 4L	pt	4.15	1.6000	6.64	_____
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	_____
Centric 40WG	oz	4.95	2.0000	9.90	_____
Diamond .83EC	oz	1.33	6.0000	7.98	_____
Admire Pro	oz	2.95	2.0000	5.90	_____
Bifenthrin	oz	0.89	12.8000	11.39	_____
Karate Z	oz	2.80	0.5000	1.40	_____
Bidrin 8WM	oz	1.09	2.0000	2.18	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
Transform WG	oz	7.74	1.5000	11.61	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	32.0000	3.52	_____
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4031	5.41	_____
Self-Propelled	hour	13.40	0.2487	3.35	_____
HAND LABOR					
Implements	hour	9.06	0.1273	1.14	_____
Self-Propelled	hour	9.06	0.2105	1.90	_____
UNALLOCATED LABOR					
Tractors	gal	2.00	4.6691	9.35	_____
Self-Propelled	gal	2.00	5.2099	10.43	_____
REPAIR & MAINTENANCE					
Implements	acre	6.81	1.0000	6.81	_____
Tractors	acre	2.88	1.0000	2.88	_____
Self-Propelled	acre	20.37	1.0000	20.37	_____
INTEREST ON OP. CAP.	acre	13.86	1.0000	13.86	_____
TOTAL DIRECT EXPENSES				730.65	_____
FIXED EXPENSES					
Implements	acre	9.83	1.0000	9.83	_____
Tractors	acre	18.09	1.0000	18.09	_____
Self-Propelled	acre	82.59	1.0000	82.59	_____
TOTAL FIXED EXPENSES				110.51	_____
TOTAL SPECIFIED EXPENSES				841.16	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year..

Table 4.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	1100.0000	660.00	_____
Cotton Seed	lb	0.11	1650.0000	188.10	_____

TOTAL INCOME				848.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	121.00	1.0000	121.00	_____
FERTILIZERS	acre	95.71	1.0000	95.71	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	117.42	1.0000	117.42	_____
INSECTICIDES	acre	79.14	1.0000	79.14	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.52	1.0000	3.52	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3379	3.04	_____
OPERATOR LABOR	hour	13.40	0.6518	8.76	_____
UNALLOCATED LABOR	hour	13.40	0.5214	6.99	_____
DIESEL FUEL	gal	2.00	9.8790	19.78	_____
REPAIR & MAINTENANCE	acre	30.06	1.0000	30.06	_____
INTEREST ON OP. CAP.	acre	13.86	1.0000	13.86	_____

TOTAL DIRECT EXPENSES				730.65	_____
RETURNS ABOVE DIRECT EXPENSES				117.45	_____

TOTAL FIXED EXPENSES				110.51	_____

TOTAL SPECIFIED EXPENSES				841.16	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				6.94	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1100.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.65	0.40	0.98	0.52

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

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						0.15	3.45	3.45
Lime (Spread)	ton	30.36						1.37	31.73	31.73
Custom Apply Fert	acre	7.00						0.32	7.32	7.32
Potash (60% K2O)	cwt	31.91						1.44	33.35	33.35
Bed-Paratill Fold	12R-38		1.25	1.72	1.30			0.19	4.46	4.74
Bed/Disk (Hipper)	12R-38		0.57	0.39	0.59			0.07	1.62	1.67
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Clarity	pt	6.45						0.19	6.64	6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Select Max	pt	12.35						0.37	12.72	12.72
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.10	3.74	3.00
UAN (32% N)	cwt	31.90						0.84	32.74	32.74
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08
Gramoxone SL 2.0	oz	14.88						0.39	15.27	15.27
Reflex 2LC	pt	6.30						0.17	6.47	6.47
Surfactant	pt	1.07						0.03	1.10	1.10
Row Cond Folding	38'		0.95	0.54	0.99			0.06	2.54	2.89
Plant & Pre-Folding	12R-38		1.24	1.96	1.77			0.11	5.08	5.42
Cotton Seed B2RF	thous	32.40						0.73	33.13	33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56	68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45	20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Gramoxone SL 2.0	oz	14.88						0.33	15.21	15.21
Cotoran 4L	pt	11.98						0.27	12.25	12.25
Surfactant	pt	1.07						0.02	1.09	1.09
Cotton Consultant	acre	8.00						0.18	8.18	8.18
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06
Dual Magnum	pt	13.01						0.29	13.30	13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Acephate 90%	lb	5.59						0.13	5.72	5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08
Dual Magnum	pt	13.01						0.29	13.30	13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06
Centric 40WG	oz	9.90						0.19	10.09	10.09
Mepiquat Chloride	oz	1.76						0.03	1.79	1.79
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.07	3.71	3.00
UAN (32% N)	cwt	31.90						0.60	32.50	32.50
App by Air (3 gal)	appl	5.00						0.09	5.09	5.09
Diamond .83EC	oz	7.98						0.15	8.13	8.13
Admire Pro	oz	5.90						0.11	6.01	6.01
Spray (Direct/Layby)	12R-38		1.03	0.58	1.28			0.04	2.93	2.31
Diuron 4L	pt	6.64						0.10	6.74	6.74
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55	4.55
App by Air (3 gal)	appl	5.00						0.07	5.07	5.07
Acephate 90%	lb	5.59						0.08	5.67	5.67
Mepiquat Chloride	oz	1.76						0.03	1.79	1.79
Bifenthrin	oz	5.70						0.09	5.79	5.79
App by Air (3 gal)	appl	1.25						0.02	1.27	1.27
Karate Z	oz	1.40						0.02	1.42	1.42
Bidrin 8WM	oz	2.18						0.03	2.21	2.21
Incidental Pest										
App by Air (3 gal)	appl	5.00						0.07	5.07	5.07
Incidental Pest Trt	acre	12.00						0.18	12.18	12.18
App by Air (3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.59						0.06	5.65	5.65
Bifenthrin	oz	5.70						0.06	5.76	5.76
App by Air (3 gal)	appl	5.00						0.06	5.06	5.06
Transform WG	oz	11.61						0.13	11.74	11.74
App by Air (5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83	1.83
Ethephon 6E	pt	9.38						0.07	9.45	9.45
App by Air (5 gal)	appl	3.25						0.02	3.27	3.27
Tribufos 6lb	pt	4.95						0.04	4.99	4.99
Ethephon 6E	pt	1.47						0.01	1.48	1.48
Cotton Picker/Module	6R-38(500)		8.87	19.57	5.72			0.13	34.29	77.23
Gin & Haul	lb	121.00						0.45	121.45	121.45
Stalk Shredder-Flail	20'		1.91	2.56	1.99			0.02	6.48	4.89
TOTALS		648.16	19.78	30.06	18.79	0.00	13.86	730.65	110.51	841.16

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	848.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.00
FERTILIZERS	31.91	0.00	0.00	0.00	0.00	31.90	0.00	31.90	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	0.00	11.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	26.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.89	0.00	0.00	0.00	0.00	1.98	4.12	1.81	1.28	0.00	0.00	7.71
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.82	0.00	0.00	0.00	0.00	1.52	3.13	1.50	1.03	0.00	0.00	10.78
REPAIR & MAINTENANCE	2.11	0.00	0.00	0.00	0.00	1.13	2.98	1.13	0.58	0.00	0.00	22.13
INTEREST ON OP. CAP.	3.54	0.00	0.00	0.00	0.88	1.56	4.65	1.26	0.80	0.37	0.20	0.60
TOTAL DIRECT EXPENSES	81.93	0.00	0.00	0.00	30.66	60.34	211.83	68.14	54.69	33.27	27.57	162.22
NET INCOME	-81.93	0.00	0.00	0.00	-30.66	-60.34	-211.83	-68.14	-54.69	-33.27	-27.57	685.88
NET INCOME TO DATE	-81.93	-81.93	-81.93	-81.93	-112.59	-172.93	-384.76	-452.90	-507.59	-540.86	-568.43	117.45

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2016

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Cotton Lint	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75			
PERCENT	YIELD	UNIT	dollars											
50	550.00	lb	-234 -344	-217 -328	-201 -311	-184 -295	-168 -278	-151 -262	-135 -245	-118 -229	-102 -212	-85 -196	-69 -179	
60	660.00	lb	-196 -307	-177 -287	-157 -267	-137 -248	-117 -228	-97 -208	-78 -188	-58 -168	-38 -149	-18 -129	1 -109	
70	770.00	lb	-159 -270	-136 -247	-113 -223	-90 -200	-67 -177	-44 -154	-21 -131	2 -108	25 -85	48 -62	71 -39	
80	880.00	lb	-122 -232	-95 -206	-69 -179	-43 -153	-16 -127	9 -100	36 -74	62 -47	88 -21	115 4	141 31	
90	990.00	lb	-84 -195	-55 -165	-25 -136	4 -106	33 -76	63 -46	93 -17	122 12	152 42	182 71	212 101	
100	1100.00	lb	-47 -158	-14 -125	18 -92	51 -59	84 -26	117 6	150 39	183 72	216 105	249 138	282 171	
110	1210.00	lb	-10 -120	26 -84	62 -48	98 -11	135 24	171 60	207 97	243 133	280 169	316 205	352 242	
120	1320.00	lb	27 -83	66 -43	106 -4	145 35	185 75	225 114	264 154	304 193	343 233	383 273	423 312	
130	1430.00	lb	64 -45	107 -3	150 39	193 82	236 125	279 168	321 211	364 254	407 297	450 340	493 383	
140	1540.00	lb	101 -8	148 37	194 83	240 129	286 176	332 222	379 268	425 314	471 360	517 407	563 453	
150	1650.00	lb	139 28	188 78	238 127	287 177	337 226	386 276	436 325	485 375	535 424	584 474	634 523	

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 2015 input prices.

Table 5.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage,
B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	
App by Air (3 gal)	appl	5.00	6.7500	33.75	
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	
Ethephon 6E	pt	4.69	2.3125	10.85	
Tribufos 6lb	pt	9.90	0.5000	4.95	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.5000	31.91	
UAN (32% N)	cwt	15.95	4.6000	73.37	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	
Select Max	pt	12.35	1.0000	12.35	
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	
Reflex 2LC	pt	6.30	1.0000	6.30	
Cotoran 4L	pt	5.99	2.0000	11.98	
Dual Magnum	pt	13.01	2.0000	26.02	
Caparol 4L	pt	4.02	1.0000	4.02	
MSMA 6.6	pt	3.38	2.7500	9.30	
Diuron 4L	pt	4.15	1.6000	6.64	
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	
Centric 40WG	oz	4.95	2.0000	9.90	
Diamond .83EC	oz	1.33	6.0000	7.98	
Admire Pro	oz	2.95	2.0000	5.90	
Bifenthrin	oz	0.89	12.8000	11.39	
Karate Z	oz	2.80	0.5000	1.40	
Bidrin 8WM	oz	1.09	2.0000	2.18	
Incidental Pest Trt	acre	12.00	1.5000	18.00	
Transform WG	oz	7.74	1.5000	11.61	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	48.0000	5.28	
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	
OPERATOR LABOR					
Tractors	hour	13.40	0.5508	7.40	
Self-Propelled	hour	13.40	0.2487	3.35	
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	
Implements	hour	9.06	0.0625	0.57	
HAND LABOR					
Implements	hour	9.06	0.1496	1.34	
Self-Propelled	hour	9.06	0.2105	1.90	
UNALLOCATED LABOR					
	hour	13.41	0.5768	7.74	
DIESEL FUEL					
Tractors	gal	2.00	6.1131	12.24	
Self-Propelled	gal	2.00	5.2099	10.43	
Roll-Out Pipe Irr.	gal	2.00	8.5535	17.10	
REPAIR & MAINTENANCE					
Implements	acre	7.78	1.0000	7.78	
Tractors	acre	3.71	1.0000	3.71	
Self-Propelled	acre	20.37	1.0000	20.37	
Roll-Out Pipe Irr.	acre	6.34	1.0000	6.34	
INTEREST ON OP. CAP.	acre	15.35	1.0000	15.35	
TOTAL DIRECT EXPENSES				824.23	
FIXED EXPENSES					
Implements	acre	12.08	1.0000	12.08	
Tractors	acre	23.27	1.0000	23.27	
Self-Propelled	acre	82.59	1.0000	82.59	
Roll-Out Pipe Irr.	acre	52.50	1.0000	52.50	
TOTAL FIXED EXPENSES				170.44	
TOTAL SPECIFIED EXPENSES				994.67	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	1200.0000	720.00	_____
Cotton Seed	lb	0.11	1800.0000	205.20	_____

TOTAL INCOME				925.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	50.00	1.0000	50.00	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	105.27	1.0000	105.27	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	130.74	1.0000	130.74	_____
INSECTICIDES	acre	85.14	1.0000	85.14	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	5.28	1.0000	5.28	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3601	3.24	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	13.40	0.7995	10.75	_____
UNALLOCATED LABOR	hour	13.41	0.5768	7.74	_____
DIESEL FUEL	gal	2.00	19.8767	39.77	_____
REPAIR & MAINTENANCE	acre	38.20	1.0000	38.20	_____
INTEREST ON OP. CAP.	acre	15.35	1.0000	15.35	_____

TOTAL DIRECT EXPENSES				824.23	_____
RETURNS ABOVE DIRECT EXPENSES				100.97	_____
TOTAL FIXED EXPENSES				170.44	_____

TOTAL SPECIFIED EXPENSES				994.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-69.47	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.3000				
Sprayer 600-750gal	60' 175hp			0.017	1.00	Apr		0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp			0.017	1.00	May		0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp			0.011	1.00	May		0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp			0.017	1.00	May		0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp			0.011	1.00	Jun		0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.3000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Hood)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Caparol 4L	pt					1.0000				
MSMA 6.6	pt					2.7500				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
Incidental Pest Trt	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
TOTALS							0.79	0.55	1.52	0.57

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Bed-Paratill Fold	12R-38		1.25	1.72	1.30			0.19	4.46	4.74	9.20
Bed/Disk (Hipper)	12R-38		1.14	0.77	1.19			0.14	3.24	3.32	6.56
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Clarity	pt	6.45						0.19	6.64		6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Select Max	pt	12.35						0.37	12.72		12.72
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.10	3.74	3.00	6.74
UAN (32% N)	cwt	36.68						0.96	37.64		37.64
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08	2.10
Gramoxone SL 2.0	oz	14.88						0.39	15.27		15.27
Reflex 2LC	pt	6.30						0.17	6.47		6.47
Surfactant	pt	1.07						0.03	1.10		1.10
Row Cond Folding	38'		0.95	0.54	0.99			0.06	2.54	2.89	5.43
Plant & Pre-Folding	12R-38		1.24	1.96	1.77			0.11	5.08	5.42	10.50
Cotton Seed B2RF	thous	32.40						0.73	33.13		33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56		68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45		20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Cotoran 4L	pt	11.98						0.27	12.25		12.25
Surfactant	pt	1.07						0.02	1.09		1.09
Cotton Consultant	acre	8.00						0.18	8.18		8.18
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	5.59						0.13	5.72		5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Centric 40WG	oz	9.90						0.19	10.09		10.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.07	3.71	3.00	6.71
UAN (32% N)	cwt	36.68						0.69	37.37		37.37
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Diamond .83EC	oz	7.98						0.15	8.13		8.13
Admire Pro	oz	5.90						0.11	6.01		6.01
Spray (Direct/Hood)	12R-38		1.03	0.88	1.28			0.06	3.25	2.67	5.92
Caparol 4L	pt	4.02						0.08	4.10		4.10
MSMA 6.6	pt	9.30						0.17	9.47		9.47
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Spray (Direct/Layby)	12R-38		1.03	0.58	1.28			0.04	2.93	2.31	5.24
Diuron 4L	pt	6.64						0.10	6.74		6.74
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Acephate 90%	lb	5.59						0.08	5.67		5.67
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Bifenthrin	oz	5.70						0.09	5.79		5.79
App by Air (3 gal)	appl	1.25						0.02	1.27		1.27
Karate Z	oz	1.40						0.02	1.42		1.42
Bidrin 8WM	oz	2.18						0.03	2.21		2.21
Incidental Pest											
App by Air (3 gal)	appl	7.50						0.11	7.61		7.61
Incidental Pest Trt	acre	18.00						0.27	18.27		18.27
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.59						0.06	5.65		5.65
Bifenthrin	oz	5.70						0.06	5.76		5.76
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Transform WG	oz	11.61						0.13	11.74		11.74
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83		1.83
Ethephon 6E	pt	9.38						0.07	9.45		9.45
App by Air (5 gal)	appl	3.25						0.02	3.27		3.27
Tribufos 6lb	pt	4.95						0.04	4.99		4.99
Ethephon 6E	pt	1.47						0.01	1.48		1.48
Cotton Picker/Module	6R-38(500)		8.87	19.57	5.72			0.13	34.29	77.23	111.52
Gin & Haul	lb	132.00						0.49	132.49		132.49
Stalk Shredder-Flail	20'		1.91	2.56	1.99			0.02	6.48	4.89	11.37
Roll-Out Pipe Irr.	acre	8.58	18.39	6.88	4.36			0.61	38.82	55.61	94.43
TOTALS		705.88	39.77	38.20	25.03	0.00	15.35	824.23	170.44	994.67	

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	925.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	10.00	13.75	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	31.91	0.00	0.00	0.00	0.00	36.68	0.00	36.68	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	13.32	11.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	32.87	22.90	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.49	0.00	0.00	0.00	0.00	1.98	4.35	5.66	1.51	0.23	0.59	8.22
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	2.39	0.00	0.00	0.00	0.00	1.52	3.13	8.53	6.73	5.70	0.25	11.52
REPAIR & MAINTENANCE	2.49	0.00	0.00	0.00	0.00	1.13	2.98	5.87	1.88	1.30	0.10	22.45
INTEREST ON OP. CAP.	3.61	0.00	0.00	0.00	0.88	1.68	4.66	2.17	1.04	0.45	0.21	0.65
TOTAL DIRECT EXPENSES	83.55	0.00	0.00	0.00	30.66	65.24	212.07	118.11	70.66	40.58	28.52	174.84
NET INCOME	-83.55	0.00	0.00	0.00	-30.66	-65.24	-212.07	-118.11	-70.66	-40.58	-28.52	750.36
NET INCOME TO DATE	-83.55	-83.55	-83.55	-83.55	-114.21	-179.45	-391.52	-509.63	-580.29	-620.87	-649.39	100.97

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75		
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-282 -453	-264 -435	-246 -417	-228 -399	-210 -381	-192 -363	-174 -345	-156 -327	-138 -309	-120 -291	-102 -273
60	720.00	lb	-242 -412	-220 -390	-198 -369	-177 -347	-155 -326	-134 -304	-112 -282	-90 -261	-69 -239	-47 -218	-26 -196
70	840.00	lb	-201 -371	-176 -346	-150 -321	-125 -296	-100 -270	-75 -245	-50 -220	-24 -195	0 -170	25 -144	50 -119
80	960.00	lb	-160 -330	-131 -302	-102 -273	-74 -244	-45 -215	-16 -186	12 -158	41 -129	69 -100	98 -71	127 -42
90	1080.00	lb	-119 -290	-87 -257	-54 -225	-22 -193	9 -160	42 -128	74 -95	107 -63	139 -31	171 1	204 33
100	1200.00	lb	-79 -249	-43 -213	-7 -177	28 -141	64 -105	100 -69	136 -33	172 2	208 38	244 74	280 110
110	1320.00	lb	-38 -208	1 -169	40 -129	80 -89	120 -50	159 -10	199 28	238 68	278 108	318 147	357 187
120	1440.00	lb	2 -167	45 -124	88 -81	132 -38	175 4	218 48	261 91	304 134	348 177	391 220	434 264
130	1560.00	lb	43 -127	90 -80	136 -33	183 13	230 59	277 106	324 153	370 200	417 247	464 293	511 340
140	1680.00	lb	83 -86	134 -36	184 14	235 64	285 115	335 165	386 215	436 266	487 316	537 367	587 417
150	1800.00	lb	124 -45	178 8	232 62	286 116	340 170	394 224	448 278	502 332	556 386	610 440	664 494

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 2015 input prices.

Table 6.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage, B2RF
Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.5000	29.25	
App by Air (3 gal)	appl	5.00	4.7500	23.75	
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	
Ethephon 6E	pt	4.69	2.3125	10.85	
Tribufos 6lb	pt	9.90	0.5000	4.95	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.5000	31.91	
UAN (32% N)	cwt	15.95	4.6000	73.37	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	
Select Max	pt	12.35	1.0000	12.35	
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	
Reflex 2LC	pt	6.30	1.0000	6.30	
Cotoran 4L	pt	5.99	2.0000	11.98	
Dual Magnum	pt	13.01	2.0000	26.02	
Caparol 4L	pt	4.02	1.0000	4.02	
MSMA 6.6	pt	3.38	2.7500	9.30	
Diuron 4L	pt	4.15	1.6000	6.64	
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	
Centric 40WG	oz	4.95	2.0000	9.90	
Diamond .83EC	oz	1.33	6.0000	7.98	
Admire Pro	oz	2.95	2.0000	5.90	
Bifenthrin	oz	0.89	12.8000	11.39	
Karate Z	oz	2.80	0.5000	1.40	
Bidrin 8WM	oz	1.09	2.0000	2.18	
Incidental Pest Trt	acre	12.00	1.5000	18.00	
Transform WG	oz	7.74	1.5000	11.61	
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	48.0000	5.28	
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	
OPERATOR LABOR					
Tractors	hour	13.40	0.4476	6.01	
Self-Propelled	hour	13.40	0.2487	3.35	
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	
HAND LABOR					
Implements	hour	9.06	0.1496	1.34	
Self-Propelled	hour	9.06	0.2105	1.90	
UNALLOCATED LABOR					
hour	hour	13.40	0.5571	7.47	
DIESEL FUEL					
Tractors	gal	2.00	5.1848	10.38	
Self-Propelled	gal	2.00	5.2099	10.43	
1/4-mi. Pivot Irr.	gal	2.00	11.2011	22.40	
REPAIR & MAINTENANCE					
Implements	acre	7.37	1.0000	7.37	
Tractors	acre	3.20	1.0000	3.20	
Self-Propelled	acre	20.37	1.0000	20.37	
1/4-mi. Pivot Irr.	acre	18.77	1.0000	18.77	
INTEREST ON OP. CAP.	acre	15.40	1.0000	15.40	
TOTAL DIRECT EXPENSES				830.53	
FIXED EXPENSES					
Implements	acre	10.50	1.0000	10.50	
Tractors	acre	20.09	1.0000	20.09	
Self-Propelled	acre	82.59	1.0000	82.59	
1/4-mi. Pivot Irr.	acre	63.55	1.0000	63.55	
TOTAL FIXED EXPENSES				176.73	
TOTAL SPECIFIED EXPENSES				1007.26	

Note: Cost of production estimates are based on 2015 input prices.

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

Table 6.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	1200.0000	720.00	_____
Cotton Seed	lb	0.11	1800.0000	205.20	_____

TOTAL INCOME				925.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.00	1.0000	53.00	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	105.27	1.0000	105.27	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	130.74	1.0000	130.74	_____
INSECTICIDES	acre	85.14	1.0000	85.14	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	5.28	1.0000	5.28	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3601	3.24	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	13.40	0.6963	9.36	_____
UNALLOCATED LABOR	hour	13.40	0.5571	7.47	_____
DIESEL FUEL	gal	2.00	21.5959	43.21	_____
REPAIR & MAINTENANCE	acre	49.71	1.0000	49.71	_____
INTEREST ON OP. CAP.	acre	15.40	1.0000	15.40	_____

TOTAL DIRECT EXPENSES				830.53	_____
RETURNS ABOVE DIRECT EXPENSES				94.67	_____

TOTAL FIXED EXPENSES				176.73	_____

TOTAL SPECIFIED EXPENSES				1007.26	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-82.06	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.3000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.3000				
App by Air (5 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Hood)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Caparol 4L	pt					1.0000				
MSMA 6.6	pt					2.7500				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
Incidental Pest Trt	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.69	0.44	1.26	0.55

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Bed-Paratill Fold	12R-38		1.25	1.72	1.30			0.19	4.46	4.74	9.20
Bed/Disk (Hipper)	12R-38		0.57	0.39	0.59			0.07	1.62	1.67	3.29
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Clarity	pt	6.45						0.19	6.64		6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Select Max	pt	12.35						0.37	12.72		12.72
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.10	3.74	3.00	6.74
UAN (32% N)	cwt	36.68						0.96	37.64		37.64
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08	2.10
Gramoxone SL 2.0	oz	14.88						0.39	15.27		15.27
Reflex 2LC	pt	6.30						0.17	6.47		6.47
Surfactant	pt	1.07						0.03	1.10		1.10
Row Cond Folding	38'		0.95	0.54	0.99			0.06	2.54	2.89	5.43
Plant & Pre-Folding	12R-38		1.24	1.96	1.77			0.11	5.08	5.42	10.50
Cotton Seed B2RF	thous	32.40						0.73	33.13		33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56		68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45		20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Cotoran 4L	pt	11.98						0.27	12.25		12.25
Surfactant	pt	1.07						0.02	1.09		1.09
Cotton Consultant	acre	8.00						0.18	8.18		8.18
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	5.59						0.13	5.72		5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Centric 40WG	oz	9.90						0.19	10.09		10.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.07	3.71	3.00	6.71
UAN (32% N)	cwt	36.68						0.69	37.37		37.37
App by Air (5 gal)	appl	6.50						0.12	6.62		6.62
Diamond .83EC	oz	7.98						0.15	8.13		8.13
Admire Pro	oz	5.90						0.11	6.01		6.01
Spray (Direct/Hood)	12R-38		1.03	0.88	1.28			0.06	3.25	2.67	5.92
Caparol 4L	pt	4.02						0.08	4.10		4.10
MSMA 6.6	pt	9.30						0.17	9.47		9.47
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Spray (Direct/Layby)	12R-38		1.03	0.58	1.28			0.04	2.93	2.31	5.24
Diuron 4L	pt	6.64						0.10	6.74		6.74
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Acephate 90%	lb	5.59						0.08	5.67		5.67
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Bifenthrin	oz	5.70						0.09	5.79		5.79
App by Air (3 gal)	appl	1.25						0.02	1.27		1.27
Karate Z	oz	1.40						0.02	1.42		1.42
Bidrin 8WM	oz	2.18						0.03	2.21		2.21
Incidental Pest											
App by Air (3 gal)	appl	7.50						0.11	7.61		7.61
Incidental Pest Trt	acre	18.00						0.27	18.27		18.27
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.59						0.06	5.65		5.65
Bifenthrin	oz	5.70						0.06	5.76		5.76
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Transform WG	oz	11.61						0.13	11.74		11.74
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83		1.83
Ethephon 6E	pt	9.38						0.07	9.45		9.45
App by Air (5 gal)	appl	3.25						0.02	3.27		3.27
Tribufos 6lb	pt	4.95						0.04	4.99		4.99
Ethephon 6E	pt	1.47						0.01	1.48		1.48
Cotton Picker/Module	6R-38(500)		8.87	19.57	5.72			0.13	34.29	77.23	111.52
Gin & Haul	lb	132.00						0.49	132.49		132.49
Stalk Shredder-Flail	20'		1.91	2.56	1.99			0.02	6.48	4.89	11.37
1/4-mi. Pivot Irr.	acre		22.40	18.77	1.84			0.69	43.70	63.55	107.25
TOTALS		700.30	43.21	49.71	21.91	0.00	15.40	830.53	176.73	1007.26	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	925.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	11.50	13.75	11.50	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	31.91	0.00	0.00	0.00	0.00	36.68	0.00	36.68	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	13.32	11.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	32.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.89	0.00	0.00	0.00	0.00	1.98	5.46	3.24	1.48	0.15	0.00	7.71
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.82	0.00	0.00	0.00	0.00	1.52	3.13	9.25	9.99	6.72	0.00	10.78
REPAIR & MAINTENANCE	2.11	0.00	0.00	0.00	0.00	1.13	2.98	17.53	2.44	1.39	0.00	22.13
INTEREST ON OP. CAP.	3.54	0.00	0.00	0.00	0.88	1.68	4.68	2.22	1.09	0.47	0.20	0.64
TOTAL DIRECT EXPENSES	81.93	0.00	0.00	0.00	30.66	65.24	213.20	121.04	74.50	43.13	27.57	173.26
NET INCOME	-81.93	0.00	0.00	0.00	-30.66	-65.24	-213.20	-121.04	-74.50	-43.13	-27.57	751.94
NET INCOME TO DATE	-81.93	-81.93	-81.93	-81.93	-112.59	-177.83	-391.03	-512.07	-586.57	-629.70	-657.27	94.67

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75
PERCENT YIELD UNIT			dollars										
50	600.00	lb	-289 -465	-271 -447	-253 -429	-235 -411	-217 -393	-199 -375	-181 -357	-163 -339	-145 -321	-127 -303	-109 -285
60	720.00	lb	-248 -425	-226 -403	-205 -381	-183 -360	-161 -338	-140 -317	-118 -295	-97 -273	-75 -252	-53 -230	-32 -209
70	840.00	lb	-207 -384	-182 -359	-157 -333	-131 -308	-106 -283	-81 -258	-56 -233	-31 -207	-5 -182	19 -157	44 -132
80	960.00	lb	-166 -343	-138 -314	-109 -285	-80 -257	-51 -228	-22 -199	5 -170	34 -141	63 -113	92 -84	121 -55
90	1080.00	lb	-126 -302	-93 -270	-61 -238	-28 -205	3 -173	35 -140	68 -108	100 -76	133 -43	165 -11	197 21
100	1200.00	lb	-85 -262	-49 -226	-13 -190	22 -154	58 -118	94 -82	130 -46	166 -10	202 25	238 61	274 97
110	1320.00	lb	-44 -221	-4 -181	34 -142	74 -102	113 -62	153 -23	193 16	232 55	272 95	311 135	351 174
120	1440.00	lb	-3 -180	39 -137	82 -94	125 -50	168 -7	212 35	255 78	298 121	341 165	384 208	428 251
130	1560.00	lb	36 -139	83 -93	130 -46	177 0	224 47	270 94	317 140	364 187	411 234	458 281	504 328
140	1680.00	lb	77 -99	128 -48	178 1	228 52	279 102	329 152	380 203	430 253	480 304	531 354	581 404
150	1800.00	lb	118 -58	172 -4	226 49	280 103	334 157	388 211	442 265	496 319	550 373	604 427	658 481

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 2015 input prices.

Table 7.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.5000	16.25	_____
App by Air (3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	0.79	2.3000	1.82	_____
Ethephon 6E	pt	4.69	2.3125	10.85	_____
Tribufos 6lb	pt	9.90	0.5000	4.95	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
Urea, Solid (46% N)	cwt	20.83	1.5000	31.24	_____
UAN (32% N)	cwt	15.95	2.0000	31.90	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	12.89	0.5000	6.45	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Select Max	pt	12.35	1.0000	12.35	_____
Gramoxone SL 2.0	oz	0.31	96.0000	29.76	_____
Reflex 2LC	pt	6.30	1.0000	6.30	_____
Cotoran 4L	pt	5.99	2.0000	11.98	_____
Dual Magnum	pt	13.01	2.0000	26.02	_____
Diuron 4L	pt	4.15	1.6000	6.64	_____
INSECTICIDES					
Acephate 90%	lb	7.45	2.2500	16.76	_____
Centric 40WG	oz	4.95	2.0000	9.90	_____
Diamond .83EC	oz	1.33	6.0000	7.98	_____
Admire Pro	oz	2.95	2.0000	5.90	_____
Bifenthrin	oz	0.89	12.8000	11.39	_____
Karate Z	oz	2.80	0.5000	1.40	_____
Bidrin 8WM	oz	1.09	2.0000	2.18	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
Transform WG	oz	7.74	1.5000	11.61	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.72	45.0000	32.40	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.11	32.0000	3.52	_____
ADJUVANTS					
Surfactant	pt	5.35	0.4000	2.14	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.2752	3.70	_____
Self-Propelled	hour	13.40	0.2487	3.35	_____
HAND LABOR					
Implements	hour	9.06	0.1037	0.93	_____
Self-Propelled	hour	9.06	0.2105	1.90	_____
UNALLOCATED LABOR					
	hour	13.43	0.4191	5.63	_____
DIESEL FUEL					
Tractors	gal	2.00	3.1878	6.38	_____
Self-Propelled	gal	2.00	5.2099	10.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.84	1.0000	4.84	_____
Tractors	acre	1.97	1.0000	1.97	_____
Self-Propelled	acre	20.37	1.0000	20.37	_____
INTEREST ON OP. CAP.	acre	14.04	1.0000	14.04	_____
TOTAL DIRECT EXPENSES				699.04	_____
FIXED EXPENSES					
Implements	acre	6.60	1.0000	6.60	_____
Tractors	acre	12.35	1.0000	12.35	_____
Self-Propelled	acre	82.59	1.0000	82.59	_____
TOTAL FIXED EXPENSES				101.54	_____
TOTAL SPECIFIED EXPENSES				800.58	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.60	900.0000	540.00	_____
Cotton Seed	lb	0.11	1350.0000	153.90	_____

TOTAL INCOME				693.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	17.62	1.0000	17.62	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	95.05	1.0000	95.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	117.42	1.0000	117.42	_____
INSECTICIDES	acre	79.14	1.0000	79.14	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.52	1.0000	3.52	_____
ADJUVANTS	acre	2.14	1.0000	2.14	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3142	2.83	_____
OPERATOR LABOR	hour	13.40	0.5239	7.05	_____
UNALLOCATED LABOR	hour	13.43	0.4191	5.63	_____
DIESEL FUEL	gal	2.00	8.3978	16.81	_____
REPAIR & MAINTENANCE	acre	27.18	1.0000	27.18	_____
INTEREST ON OP. CAP.	acre	14.04	1.0000	14.04	_____

TOTAL DIRECT EXPENSES				699.04	_____
RETURNS ABOVE DIRECT EXPENSES				-5.14	_____
TOTAL FIXED EXPENSES				101.54	_____

TOTAL SPECIFIED EXPENSES				800.58	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-106.68	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.6600				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Urea, Solid (46% N)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant&Pre-Folding	12R-38	MFWD 225	0.055	1.00	May		0.05	0.05	0.11	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran 4L	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Admire Pro	oz					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.52	0.27	0.83	0.41

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Urea, Solid (46% N)	cwt	31.24						1.41	32.65		32.65
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Clarity	pt	6.45						0.19	6.64		6.64
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Select Max	pt	12.35						0.37	12.72		12.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.03	1.02	1.08	2.10
Gramoxone SL 2.0	oz	14.88						0.39	15.27		15.27
Reflex 2LC	pt	6.30						0.17	6.47		6.47
Surfactant	pt	1.07						0.03	1.10		1.10
Row Cond Folding	38'		0.95	0.54	0.99			0.06	2.54	2.89	5.43
NT Plant&Pre-Folding	12R-38		1.29	2.16	1.85			0.12	5.42	5.86	11.28
Cotton Seed B2RF	thous	32.40						0.73	33.13		33.13
B2RF Cot Tech Fee	thous	67.05						1.51	68.56		68.56
Cotton Seed Trt.	acre	20.00						0.45	20.45		20.45
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Cotoran 4L	pt	11.98						0.27	12.25		12.25
Surfactant	pt	1.07						0.02	1.09		1.09
Cotton Consultant	acre	8.00						0.18	8.18		8.18
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	5.59						0.13	5.72		5.72
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual Magnum	pt	13.01						0.29	13.30		13.30
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-825gal	90' 250hp		0.30	0.16	0.34			0.02	0.82	1.06	1.88
Centric 40WG	oz	9.90						0.19	10.09		10.09
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Fert Appl (Liquid)	12R-38		1.20	0.97	1.47			0.07	3.71	3.00	6.71
UAN (32% N)	cwt	31.90						0.60	32.50		32.50
App by Air (3 gal)	appl	5.00						0.09	5.09		5.09
Diamond .83EC	oz	7.98						0.15	8.13		8.13
Admire Pro	oz	5.90						0.11	6.01		6.01
Spray (Direct/Layby)	12R-38		1.03	0.58	1.28			0.05	2.94	2.31	5.25
Diuron 4L	pt	6.64						0.12	6.76		6.76
Glyphosate 3lbs a.e	oz	4.48						0.08	4.56		4.56
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Acephate 90%	lb	5.59						0.08	5.67		5.67
Mepiquat Chloride	oz	1.76						0.03	1.79		1.79
Bifenthrin	oz	5.70						0.09	5.79		5.79
App by Air (3 gal)	appl	1.25						0.02	1.27		1.27
Karate Z	oz	1.40						0.02	1.42		1.42
Bidrin 8WM	oz	2.18						0.03	2.21		2.21
Incidental Pest											
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Incidental Pest Trt	acre	12.00						0.18	12.18		12.18
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.59						0.06	5.65		5.65
Bifenthrin	oz	5.70						0.06	5.76		5.76
App by Air (3 gal)	appl	5.00						0.06	5.06		5.06
Transform WG	oz	11.61						0.13	11.74		11.74
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	1.82						0.01	1.83		1.83
Ethephon 6E	pt	9.38						0.07	9.45		9.45
App by Air (5 gal)	appl	3.25						0.02	3.27		3.27
Tribufos 6lb	pt	4.95						0.04	4.99		4.99
Ethephon 6E	pt	1.47						0.01	1.48		1.48
Cotton Picker/Module	6R-38(500)		8.87	19.57	5.72			0.13	34.29	77.23	111.52
Gin & Haul	lb	99.00						0.37	99.37		99.37
Stalk Shredder-Flail	20'		1.91	2.56	1.99			0.02	6.48	4.89	11.37
TOTALS		625.50	16.81	27.18	15.51	0.00	14.04	699.04	101.54	800.58	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	693.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.62	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	63.15	0.00	0.00	0.00	0.00	0.00	0.00	31.90	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	21.18	61.84	11.12	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	5.59	23.78	26.87	22.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.51	4.20	3.09	0.00	0.00	0.00	7.71
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.32	3.18	2.53	0.00	0.00	0.00	10.78
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.16	3.18	1.71	0.00	0.00	0.00	22.13
INTEREST ON OP. CAP.	4.69	0.00	0.00	0.00	0.88	0.62	4.66	1.51	0.59	0.37	0.20	0.52
TOTAL DIRECT EXPENSES	108.50	0.00	0.00	0.00	30.66	23.86	212.17	82.40	40.47	33.27	27.57	140.14
NET INCOME	-108.50	0.00	0.00	0.00	-30.66	-23.86	-212.17	-82.40	-40.47	-33.27	-27.57	553.76
NET INCOME TO DATE	-108.50	-108.50	-108.50	-108.50	-139.16	-163.02	-375.19	-457.59	-498.06	-531.33	-558.90	-5.14

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-292	-279	-265	-252	-238	-225	-211	-198	-184	-171	-157
			-394	-380	-367	-353	-340	-326	-313	-299	-286	-272	-259
60	540.00	lb	-262	-246	-229	-213	-197	-181	-165	-148	-132	-116	-100
			-363	-347	-331	-315	-299	-282	-266	-250	-234	-218	-201
70	630.00	lb	-231	-212	-194	-175	-156	-137	-118	-99	-80	-61	-42
			-333	-314	-295	-276	-257	-238	-219	-201	-182	-163	-144
80	720.00	lb	-201	-179	-158	-136	-114	-93	-71	-50	-28	-6	14
			-302	-281	-259	-238	-216	-194	-173	-151	-130	-108	-86
90	810.00	lb	-170	-146	-122	-97	-73	-49	-24	-0	23	47	72
			-272	-247	-223	-199	-175	-150	-126	-102	-77	-53	-29
100	900.00	lb	-140	-113	-86	-59	-32	-5	21	48	75	102	129
			-241	-214	-187	-160	-133	-106	-79	-52	-25	1	28
110	990.00	lb	-109	-79	-50	-20	9	38	68	98	128	157	187
			-211	-181	-151	-122	-92	-62	-32	-3	26	56	85
120	1080.00	lb	-79	-46	-14	18	50	82	115	147	180	212	244
			-180	-148	-115	-83	-50	-18	13	46	78	111	143
130	1170.00	lb	-48	-13	21	56	91	127	162	197	232	267	302
			-149	-114	-79	-44	-9	25	60	95	130	165	201
140	1260.00	lb	-17	19	57	95	133	171	208	246	284	322	360
			-119	-81	-43	-6	31	69	107	145	182	220	258
150	1350.00	lb	12	53	93	134	174	215	255	296	336	377	417
			-88	-48	-7	32	73	113	154	194	235	275	316

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 2015 input prices .

Table 8.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
HARVEST AIDS					
Paraquat	oz	0.27	16.0000	4.32	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.8700	21.75	_____
Potash (60% K2O)	cwt	21.27	1.3300	28.29	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	1.6000	7.10	_____
Quadris Top	oz	2.16	8.0000	17.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	7.0000	15.82	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Select Max	pt	12.35	1.0000	12.35	_____
Valor SX	oz	7.10	2.0000	14.20	_____
Boundary 6.5 EC	pt	10.18	2.0000	20.36	_____
Gramoxone SL 2.0	oz	0.31	48.0000	14.88	_____
Prefix	pt	5.81	2.0000	11.62	_____
INSECTICIDES					
Acephate 90SP	lb	7.45	0.7500	5.59	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.13	50.0000	56.50	_____
ADJUVANTS					
Surfactant	pt	5.35	1.1000	5.89	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
INOCULANT					
Vault	oz	1.73	2.0000	3.46	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.3302	4.43	_____
Harvesters	hour	13.40	0.1021	1.37	_____
HAND LABOR					
Implements	hour	9.06	0.0959	0.87	_____
UNALLOCATED LABOR	hour	13.41	0.3892	5.22	_____
DIESEL FUEL					
Tractors	gal	2.00	3.8252	7.65	_____
Harvesters	gal	2.00	1.3935	2.79	_____
REPAIR & MAINTENANCE					
Implements	acre	4.84	1.0000	4.84	_____
Tractors	acre	2.34	1.0000	2.34	_____
Harvesters	acre	3.35	1.0000	3.35	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____
TOTAL DIRECT EXPENSES				359.44	_____
FIXED EXPENSES					
Implements	acre	9.71	1.0000	9.71	_____
Tractors	acre	14.82	1.0000	14.82	_____
Harvesters	acre	13.23	1.0000	13.23	_____
TOTAL FIXED EXPENSES				37.76	_____
TOTAL SPECIFIED EXPENSES				397.20	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	8.98	42.0000	377.16	_____

TOTAL INCOME				377.16	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
HARVEST AIDS	acre	7.82	1.0000	7.82	_____
FERTILIZERS	acre	50.04	1.0000	50.04	_____
FUNGICIDES	acre	24.38	1.0000	24.38	_____
HERBICIDES	acre	94.11	1.0000	94.11	_____
INSECTICIDES	acre	5.59	1.0000	5.59	_____
SEED/PLANTS	acre	56.50	1.0000	56.50	_____
ADJUVANTS	acre	5.89	1.0000	5.89	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	15.18	1.0000	15.18	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
INOCULANT	acre	3.46	1.0000	3.46	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0959	0.87	_____
OPERATOR LABOR	hour	13.40	0.4324	5.80	_____
UNALLOCATED LABOR	hour	13.41	0.3892	5.22	_____
DIESEL FUEL	gal	2.00	5.2188	10.44	_____
REPAIR & MAINTENANCE	acre	10.53	1.0000	10.53	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____

TOTAL DIRECT EXPENSES				359.44	_____
RETURNS ABOVE DIRECT EXPENSES				17.72	_____
TOTAL FIXED EXPENSES				37.76	_____

TOTAL SPECIFIED EXPENSES				397.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-20.04	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2016

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	0.3300				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3300				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	24'	MFWD 225	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Vault	oz					2.0000				
Boundary 6.5 EC	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Quadris Top	oz					8.0000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.43	0.43	0.52	0.38

Note: Cost of production estimates are based on 2015 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Subsoiler	3 shank		0.95	0.34	1.04			0.10	2.43	1.95	4.38
Lime (Spread)	ton	15.18						0.68	15.86		15.86
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Phosphorus (46% P2O5)	cwt	21.75						0.98	22.73		22.73
Potash (60% K2O)	cwt	28.29						1.27	29.56		29.56
Disk Harrow	24'		1.90	1.59	2.09			0.25	5.83	5.81	11.64
Field Cultivate Fld	24'		1.44	0.86	1.58			0.17	4.05	4.55	8.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	pt	6.78						0.20	6.98		6.98
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Select Max	pt	12.35						0.37	12.72		12.72
Valor SX	oz	14.20						0.43	14.63		14.63
Surfactant	pt	2.14						0.06	2.20		2.20
Plant & Pre-Folding	12R-30		1.57	2.27	2.34			0.14	6.32	6.46	12.78
Soybean Seed RR2	lb	56.50						1.27	57.77		57.77
CruiserMaxx	oz	7.10						0.16	7.26		7.26
Vault	oz	3.46						0.08	3.54		3.54
Boundary 6.5 EC	pt	20.36						0.46	20.82		20.82
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Surfactant	pt	2.14						0.05	2.19		2.19
Soybeans Consultant	acre	7.00						0.13	7.13		7.13
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
Prefix	pt	11.62						0.22	11.84		11.84
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Quadris Top	oz	17.28						0.19	17.47		17.47
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Acephate 90SP	lb	5.59						0.04	5.63		5.63
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Paraquat	oz	4.32						0.03	4.35		4.35
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	1.07						0.01	1.08		1.08
Header -Soybean	25' Flex		2.79	4.23	2.60			0.04	9.66	14.55	24.21
Haul Soybeans	bu	11.34						0.04	11.38		11.38
Grain Cart Soybean	700 bu		0.49	0.36	0.54			0.01	1.40	1.32	2.72
TOTALS		317.61	10.44	10.53	11.89	0.00	8.97	359.44	37.76	397.20	

Note: Cost of production estimates are based on 2015 input prices.

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

Table 8.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	377.16
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	6.50	13.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00
FERTILIZERS	50.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.00	17.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	38.21	0.00	35.24	20.66	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.59	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	56.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	2.14	0.00	2.14	0.00	0.00	0.54	1.07	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.71	0.00	0.00	0.00	0.00	0.00	2.34	1.70	0.00	0.00	0.00	3.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.29	0.00	0.00	0.00	0.00	0.00	1.57	1.30	0.00	0.00	0.00	3.28
REPAIR & MAINTENANCE	2.79	0.00	0.00	0.00	0.00	0.00	2.27	0.88	0.00	0.00	0.00	4.59
INTEREST ON OP. CAP.	3.92	0.00	0.00	0.00	1.40	0.00	2.49	0.59	0.00	0.27	0.21	0.09
TOTAL DIRECT EXPENSES	91.23	0.00	0.00	0.00	48.25	0.00	113.11	32.13	0.00	24.59	27.69	22.44
NET INCOME	-91.23	0.00	0.00	0.00	-48.25	0.00	-113.11	-32.13	0.00	-24.59	-27.69	354.72
NET INCOME TO DATE	-91.23	-91.23	-91.23	-91.23	-139.48	-139.48	-252.59	-284.72	-284.72	-309.31	-337.00	17.72

Note: Cost of production estimates are based on 2015 input prices.

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 30"
 Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Soybeans			6.73	7.18	7.63	8.08	8.53	8.98	9.42	9.87	10.32	10.77	11.22
PERCENT	YIELD	UNIT	-----dollars-----										
50	21.00	bu	-212	-202	-193	-184	-174	-165	-155	-146	-136	-127	-118
			-250	-240	-231	-221	-212	-202	-193	-184	-174	-165	-155
60	25.20	bu	-185	-173	-162	-151	-139	-128	-117	-105	-94	-83	-72
			-222	-211	-200	-188	-177	-166	-155	-143	-132	-121	-109
70	29.40	bu	-158	-144	-131	-118	-105	-92	-78	-65	-52	-39	-26
			-195	-182	-169	-156	-142	-129	-116	-103	-90	-76	-63
80	33.60	bu	-130	-115	-100	-85	-70	-55	-40	-25	-10	4	19
			-168	-153	-138	-123	-108	-93	-78	-63	-47	-32	-17
90	37.80	bu	-103	-86	-69	-52	-35	-18	-1	15	32	49	66
			-141	-124	-107	-90	-73	-56	-39	-22	-5	11	28
100	42.00	bu	-76	-57	-38	-19	-1	17	36	55	74	93	112
			-114	-95	-76	-57	-38	-20	-1	17	36	55	74
110	46.20	bu	-49	-28	-7	12	33	54	75	95	116	137	158
			-87	-66	-45	-24	-4	16	37	58	78	99	120
120	50.40	bu	-22	0	22	45	68	90	113	136	158	181	204
			-60	-37	-14	7	30	53	75	98	121	143	166
130	54.60	bu	4	29	53	78	102	127	151	176	201	225	250
			-32	-8	16	40	65	89	114	138	163	187	212
140	58.80	bu	32	58	84	111	137	164	190	216	243	269	296
			-5	20	47	73	99	126	152	179	205	231	258
150	63.00	bu	59	87	115	144	172	200	228	257	285	313	342
			21	49	77	106	134	162	191	219	247	275	304

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 2015 input prices.

Table 9.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
HARVEST AIDS					
Paraquat	oz	0.27	16.0000	4.32	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.8700	21.75	_____
Potash (60% K2O)	cwt	21.27	1.3300	28.29	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	1.6000	7.10	_____
Quadris Top	oz	2.16	8.0000	17.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	7.0000	15.82	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Select Max	pt	12.35	1.0000	12.35	_____
Valor SX	oz	7.10	2.0000	14.20	_____
Boundary 6.5 EC	pt	10.18	2.0000	20.36	_____
Gramoxone SL 2.0	oz	0.31	48.0000	14.88	_____
Prefix	pt	5.81	2.0000	11.62	_____
INSECTICIDES					
Acephate 90SP	lb	7.45	0.7500	5.59	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.13	50.0000	56.50	_____
ADJUVANTS					
Surfactant	pt	5.35	1.1000	5.89	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Soybeans	bu	0.27	60.0000	16.20	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
INOCULANT					
Vault	oz	1.73	2.0000	3.46	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4713	6.33	_____
Harvesters	hour	13.40	0.1021	1.37	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0959	0.87	_____
UNALLOCATED LABOR					
	hour	13.40	0.4454	5.97	_____
DIESEL FUEL					
Tractors	gal	2.00	5.1917	10.39	_____
Harvesters	gal	2.00	1.3935	2.79	_____
Roll-Out Pipe Irr.	gal	2.00	7.3316	14.67	_____
REPAIR & MAINTENANCE					
Implements	acre	5.50	1.0000	5.50	_____
Tractors	acre	3.13	1.0000	3.13	_____
Harvesters	acre	3.35	1.0000	3.35	_____
Roll-Out Pipe Irr.	acre	6.22	1.0000	6.22	_____
INTEREST ON OP. CAP.					
	acre	9.70	1.0000	9.70	_____
TOTAL DIRECT EXPENSES				404.64	_____
FIXED EXPENSES					
Implements	acre	11.96	1.0000	11.96	_____
Tractors	acre	19.70	1.0000	19.70	_____
Harvesters	acre	13.23	1.0000	13.23	_____
Roll-Out Pipe Irr.	acre	52.19	1.0000	52.19	_____
TOTAL FIXED EXPENSES				97.08	_____
TOTAL SPECIFIED EXPENSES				501.72	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	8.98	60.0000	538.80	_____

TOTAL INCOME				538.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
HARVEST AIDS	acre	7.82	1.0000	7.82	_____
FERTILIZERS	acre	50.04	1.0000	50.04	_____
FUNGICIDES	acre	24.38	1.0000	24.38	_____
HERBICIDES	acre	94.11	1.0000	94.11	_____
INSECTICIDES	acre	5.59	1.0000	5.59	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	56.50	1.0000	56.50	_____
ADJUVANTS	acre	5.89	1.0000	5.89	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	16.20	1.0000	16.20	_____
CUSTOM LIME	acre	15.18	1.0000	15.18	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
INOCULANT	acre	3.46	1.0000	3.46	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0959	0.87	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	13.40	0.5735	7.70	_____
UNALLOCATED LABOR	hour	13.40	0.4454	5.97	_____
DIESEL FUEL	gal	2.00	13.9169	27.85	_____
REPAIR & MAINTENANCE	acre	18.20	1.0000	18.20	_____
INTEREST ON OP. CAP.	acre	9.70	1.0000	9.70	_____

TOTAL DIRECT EXPENSES				404.64	_____
RETURNS ABOVE DIRECT EXPENSES				134.16	_____
TOTAL FIXED EXPENSES				97.08	_____

TOTAL SPECIFIED EXPENSES				501.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				37.08	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.C Estimated resource use for field operations, per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 30"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Subsoiler	3 shank	MFWD 225	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3300				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	24'	MFWD 225	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed/Lister-Roll-Fold	12R-30	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Vault	oz					2.0000				
Boundary 6.5 EC	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Quadris Top	oz					8.0000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					60.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.57	0.57	1.03	0.44

Note: Cost of production estimates are based on 2015 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.D Estimated costs for field operations, per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 30"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Subsoiler	3 shank		0.95	0.34	1.04			0.10	2.43	1.95	4.38
Lime (Spread)	ton	15.18						0.68	15.86		15.86
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Phosphorus (46% P2O5)	cwt	21.75						0.98	22.73		22.73
Potash (60% K2O)	cwt	28.29						1.27	29.56		29.56
Disk Harrow	24'		1.90	1.59	2.09			0.25	5.83	5.81	11.64
Field Cultivate Fld	24'		1.44	0.86	1.58			0.17	4.05	4.55	8.60
Bed/Lister-Roll-Fold	12R-30		1.45	0.91	1.59			0.18	4.13	4.02	8.15
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	pt	6.78						0.20	6.98		6.98
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Select Max	pt	12.35						0.37	12.72		12.72
Valor SX	oz	14.20						0.43	14.63		14.63
Surfactant	pt	2.14						0.06	2.20		2.20
Plant & Pre-Folding	12R-30		1.57	2.27	2.34			0.14	6.32	6.46	12.78
Soybean Seed RR2	lb	56.50						1.27	57.77		57.77
CruiserMaxx	oz	7.10						0.16	7.26		7.26
Vault	oz	3.46						0.08	3.54		3.54
Boundary 6.5 EC	pt	20.36						0.46	20.82		20.82
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Surfactant	pt	2.14						0.05	2.19		2.19
soybeans Consultant	acre	7.00						0.13	7.13		7.13
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
Prefix	pt	11.62						0.22	11.84		11.84
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Quadris Top	oz	17.28						0.19	17.47		17.47
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Acephate 90SP	lb	5.59						0.04	5.63		5.63
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Paraquat	oz	4.32						0.03	4.35		4.35
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	1.07						0.01	1.08		1.08
Header -Soybean	25' Flex		2.79	4.23	2.60			0.04	9.66	14.55	24.21
Haul Soybeans	bu	16.20						0.06	16.26		16.26
Grain Cart Soybean	700 bu		0.49	0.36	0.54			0.01	1.40	1.32	2.72
Roll-Out Pipe Irr.	acre	8.58	15.96	6.76	4.36			0.53	36.19	55.30	91.49
TOTALS		331.05	27.85	18.20	17.84	0.00	9.70	404.64	97.08	501.72	

Note: Cost of production estimates are based on 2015 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	538.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	6.50	13.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00
FERTILIZERS	50.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.00	17.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	38.21	0.00	35.24	20.66	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.59	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	56.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	2.14	0.00	2.14	0.00	0.00	0.54	1.07	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.81	0.00	0.00	0.00	0.00	0.00	2.34	1.93	2.80	0.23	0.00	3.73
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	6.48	0.00	0.00	0.00	0.00	0.00	1.57	1.30	10.08	4.89	0.00	3.53
REPAIR & MAINTENANCE	4.02	0.00	0.00	0.00	0.00	0.00	2.27	0.88	5.08	1.26	0.00	4.69
INTEREST ON OP. CAP.	4.17	0.00	0.00	0.00	1.40	0.00	2.49	0.59	0.39	0.34	0.21	0.11
TOTAL DIRECT EXPENSES	97.00	0.00	0.00	0.00	48.25	0.00	113.11	32.36	26.93	31.04	27.69	28.26
NET INCOME	-97.00	0.00	0.00	0.00	-48.25	0.00	-113.11	-32.36	-26.93	-31.04	-27.69	510.54
NET INCOME TO DATE	-97.00	-97.00	-97.00	-97.00	-145.25	-145.25	-258.36	-290.72	-317.65	-348.69	-376.38	134.16

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 30"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			6.73	7.18	7.63	8.08	8.53	8.98	9.42	9.87	10.32	10.77	11.22
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-194 -291	-180 -278	-167 -264	-154 -251	-140 -237	-127 -224	-113 -210	-100 -197	-86 -183	-73 -170	-59 -156
60	36.00	bu	-155 -252	-139 -236	-123 -220	-107 -204	-91 -188	-74 -171	-58 -155	-42 -139	-26 -123	-10 -107	5 -91
70	42.00	bu	-116 -213	-98 -195	-79 -176	-60 -157	-41 -138	-22 -119	-3 -100	15 -81	33 -63	52 -44	71 -25
80	48.00	bu	-78 -175	-56 -153	-35 -132	-13 -110	8 -88	29 -67	51 -45	72 -24	94 -2	115 18	137 40
90	54.00	bu	-39 -136	-15 -112	9 -87	33 -63	57 -39	81 -15	106 9	130 33	154 57	178 81	203 106
100	60.00	bu	-0 -97	26 -70	53 -43	80 -16	107 10	134 37	161 64	188 90	214 117	241 144	268 171
110	66.00	bu	38 -58	67 -29	97 0	127 30	156 59	186 89	216 118	245 148	275 178	304 207	334 237
120	72.00	bu	77 -20	109 12	141 44	174 76	206 109	238 141	270 173	303 206	335 238	367 270	400 303
130	78.00	bu	115 18	150 53	185 88	220 123	255 158	290 193	325 228	360 263	395 298	431 333	466 368
140	84.00	bu	154 57	192 95	230 132	267 170	305 208	343 246	380 283	418 321	456 359	494 396	531 434
150	90.00	bu	193 96	233 136	274 177	314 217	355 257	395 298	435 338	476 379	516 419	557 459	597 500

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 2015 input prices.

Table 10.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.7500	30.88	_____
HARVEST AIDS					
Paraquat	oz	0.27	16.0000	4.32	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.8700	21.75	_____
Potash (60% K2O)	cwt	21.27	1.3300	28.29	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	1.6000	7.10	_____
Quadris Top	oz	2.16	8.0000	17.28	_____
HERBICIDES					
Boundary 6.5 EC	pt	10.18	2.0000	20.36	_____
Gramoxone SL 2.0	oz	0.31	48.0000	14.88	_____
Glyphosate 3lbs a.e	pt	2.26	4.0000	9.04	_____
Prefix	pt	5.81	2.0000	11.62	_____
INSECTICIDES					
Acephate 90SP	lb	7.45	0.7500	5.59	_____
Prevathon	oz	1.25	10.5000	13.13	_____
Incidental Pest Trt	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.13	50.0000	56.50	_____
ADJUVANTS					
Surfactant	pt	5.35	0.7000	3.74	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
INOCULANT					
Vault	oz	1.73	2.0000	3.46	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.3507	4.70	_____
Harvesters	hour	13.40	0.1021	1.37	_____
HAND LABOR					
Implements	hour	9.06	0.0959	0.87	_____
UNALLOCATED LABOR					
	hour	13.41	0.4076	5.47	_____
DIESEL FUEL					
Tractors	gal	2.00	4.0622	8.12	_____
Harvesters	gal	2.00	1.3935	2.79	_____
REPAIR & MAINTENANCE					
Implements	acre	5.09	1.0000	5.09	_____
Tractors	acre	2.49	1.0000	2.49	_____
Harvesters	acre	3.35	1.0000	3.35	_____
INTEREST ON OP. CAP.	acre	7.99	1.0000	7.99	_____
TOTAL DIRECT EXPENSES				344.97	_____
FIXED EXPENSES					
Implements	acre	10.24	1.0000	10.24	_____
Tractors	acre	15.74	1.0000	15.74	_____
Harvesters	acre	13.23	1.0000	13.23	_____
TOTAL FIXED EXPENSES				39.21	_____
TOTAL SPECIFIED EXPENSES				384.18	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	8.98	40.0000	359.20	_____

TOTAL INCOME				359.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	30.88	1.0000	30.88	_____
HARVEST AIDS	acre	7.82	1.0000	7.82	_____
FERTILIZERS	acre	50.04	1.0000	50.04	_____
FUNGICIDES	acre	24.38	1.0000	24.38	_____
HERBICIDES	acre	55.90	1.0000	55.90	_____
INSECTICIDES	acre	26.72	1.0000	26.72	_____
SEED/PLANTS	acre	56.50	1.0000	56.50	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	15.18	1.0000	15.18	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
INOCULANT	acre	3.46	1.0000	3.46	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0959	0.87	_____
OPERATOR LABOR	hour	13.40	0.4529	6.07	_____
UNALLOCATED LABOR	hour	13.41	0.4076	5.47	_____
DIESEL FUEL	gal	2.00	5.4558	10.91	_____
REPAIR & MAINTENANCE	acre	10.93	1.0000	10.93	_____
INTEREST ON OP. CAP.	acre	7.99	1.0000	7.99	_____

TOTAL DIRECT EXPENSES				344.97	_____
RETURNS ABOVE DIRECT EXPENSES				14.23	_____
TOTAL FIXED EXPENSES				39.21	_____

TOTAL SPECIFIED EXPENSES				384.18	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-24.98	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
						-----hours-----					
Soil Test	acre			0.33	Nov	0.3300					
Subsoiler	3 shank	MFWD 225	0.204	0.20	Nov		0.04	0.04	0.04	0.03	
Disk Harrow	24'	MFWD 225	0.081	0.25	Nov		0.02	0.02	0.02	0.01	
Lime (Spread)	ton			0.33	Nov	0.3300					
Custom Apply Fert	acre			1.00	Nov	1.0000					
Phosphorus(46% P2O5)	cwt					0.8700					
Potash (60% K2O)	cwt					1.3300					
Disk Harrow	24'	MFWD 225	0.081	1.00	Apr		0.08	0.08	0.08	0.07	
Soybeans Consultant	acre			1.00	May	1.0000					
Field Cultivate Fld	24'	MFWD 225	0.062	1.00	May		0.06	0.06	0.06	0.05	
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	May		0.06	0.06	0.13	0.06	
Soybean Seed RR2	lb					50.0000					
CruiserMaxx	oz					1.6000					
Vault	oz					2.0000					
Boundary 6.5 EC	pt					2.0000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	May		0.02	0.02	0.04	0.02	
Glyphosate 3lbs a.e	pt					2.0000					
Prefix	pt					2.0000					
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jun		0.02	0.02	0.04	0.02	
Glyphosate 3lbs a.e	pt					2.0000					
App by Air (5 gal)	appl			1.00	Jul	1.0000					
Quadris Top	oz					8.0000					
Surfactant	pt					0.1000					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Acephate 90SP	lb					0.7500					
App by Air (5 gal)	appl			0.75	Aug	0.7500					
Prevathon	oz					10.5000					
Incidental Pest				1.00	Sep						
App by Air (5 gal)	appl					1.0000					
Incidental Pest Trt	acre					1.0000					
App by Air (5 gal)	appl			1.00	Sep	1.0000					
Paraquat	oz					16.0000					
Sodium Chlorate 3L	gal					1.0000					
Surfactant	pt					0.2000					
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09	
Haul Soybeans	bu					40.0000					
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01	
TOTALS								0.45	0.45	0.54	0.40

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Subsoiler	3 shank		0.95	0.34	1.04			0.10	2.43	1.95	4.38
Disk Harrow	24'		0.47	0.40	0.52			0.06	1.45	1.45	2.90
Lime (Spread)	ton	15.18						0.68	15.86		15.86
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Phosphorus(46% P2O5)	cwt	21.75						0.98	22.73		22.73
Potash (60% K2O)	cwt	28.29						1.27	29.56		29.56
Disk Harrow	24'		1.90	1.59	2.09			0.15	5.73	5.81	11.54
soybeans Consultant	acre	7.00						0.16	7.16		7.16
Field Cultivate Fld	24'		1.44	0.86	1.58			0.09	3.97	4.55	8.52
Plant & Pre-Folding	12R-30		1.57	2.27	2.34			0.14	6.32	6.46	12.78
Soybean Seed RR2	lb	56.50						1.27	57.77		57.77
CruiserMaxx	oz	7.10						0.16	7.26		7.26
Vault	oz	3.46						0.08	3.54		3.54
Boundary 6.5 EC	pt	20.36						0.46	20.82		20.82
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Surfactant	pt	2.14						0.05	2.19		2.19
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.10	4.62		4.62
Prefix	pt	11.62						0.26	11.88		11.88
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
App by Air (5 gal)	appl	6.50						0.10	6.60		6.60
Quadris Top	oz	17.28						0.26	17.54		17.54
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Acephate 90SP	lb	5.59						0.06	5.65		5.65
App by Air (5 gal)	appl	4.88						0.05	4.93		4.93
Prevathon	oz	13.13						0.15	13.28		13.28
Incidental Pest											
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Incidental Pest Trt	acre	8.00						0.06	8.06		8.06
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Paraquat	oz	4.32						0.03	4.35		4.35
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	1.07						0.01	1.08		1.08
Header -Soybean	25' Flex		2.79	4.23	2.60			0.04	9.66	14.55	24.21
Haul Soybeans	bu	10.80						0.04	10.84		10.84
Grain Cart Soybean	700 bu		0.49	0.36	0.54			0.01	1.40	1.32	2.72
TOTALS		302.73	10.91	10.93	12.41	0.00	7.99	344.97	39.21	384.18	

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	11.38	13.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00
FERTILIZERS	50.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	17.28	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	51.38	4.52	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.72	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	56.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	0.54	0.00	1.07	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.56	0.00	0.00	0.00	0.00	2.09	4.77	0.85	0.00	0.00	0.00	3.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.42	0.00	0.00	0.00	0.00	1.90	3.66	0.65	0.00	0.00	0.00	3.28
REPAIR & MAINTENANCE	0.74	0.00	0.00	0.00	0.00	1.59	3.57	0.44	0.00	0.00	0.00	4.59
INTEREST ON OP. CAP.	3.56	0.00	0.00	0.00	0.00	0.15	3.14	0.12	0.37	0.33	0.23	0.09
TOTAL DIRECT EXPENSES	82.80	0.00	0.00	0.00	0.00	5.73	142.72	6.58	24.69	30.43	30.12	21.90
NET INCOME	-82.80	0.00	0.00	0.00	0.00	-5.73	-142.72	-6.58	-24.69	-30.43	-30.12	337.30
NET INCOME TO DATE	-82.80	-82.80	-82.80	-82.80	-82.80	-88.53	-231.25	-237.83	-262.52	-292.95	-323.07	14.23

Note: Cost of production estimates are based on 2015 input prices.

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

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, 12R 30"
 Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.73	7.18	7.63	8.08	8.53	8.98	9.42	9.87	10.32	10.77	11.22
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-204 -244	-195 -235	-186 -226	-177 -217	-168 -208	-159 -199	-150 -190	-141 -181	-133 -172	-124 -163	-115 -154
60	24.00	bu	-178 -218	-168 -207	-157 -196	-146 -185	-135 -175	-125 -164	-114 -153	-103 -142	-92 -131	-82 -121	-71 -110
70	28.00	bu	-153 -192	-140 -179	-127 -167	-115 -154	-102 -142	-90 -129	-77 -116	-65 -104	-52 -91	-39 -79	-27 -66
80	32.00	bu	-127 -166	-112 -152	-98 -137	-84 -123	-69 -109	-55 -94	-41 -80	-26 -65	-12 -51	2 -37	16 -22
90	36.00	bu	-101 -140	-85 -124	-69 -108	-52 -92	-36 -75	-20 -59	-4 -43	11 -27	27 -11	44 4	60 21
100	40.00	bu	-75 -114	-57 -96	-39 -78	-21 -60	-3 -42	14 -24	32 -7	50 10	68 28	86 46	104 64
110	44.00	bu	-49 -88	-29 -69	-10 -49	9 -29	29 -9	49 9	68 29	88 49	108 69	128 88	147 108
120	48.00	bu	-23 -63	-2 -41	19 -19	40 1	62 23	83 44	105 66	127 87	148 109	170 130	191 152
130	52.00	bu	1 -37	25 -13	48 9	72 32	95 56	118 79	142 102	165 126	188 149	212 172	235 196
140	56.00	bu	27 -11	52 13	78 38	103 64	128 89	153 114	178 139	203 164	229 189	254 214	279 240
150	60.00	bu	53 14	80 41	107 68	134 95	161 122	188 149	215 176	242 203	269 230	296 256	323 283

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 2015 input prices.

Table 11.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	5.0000	32.50	_____
HARVEST AIDS					
Paraquat	oz	0.27	16.0000	4.32	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.8700	21.75	_____
Potash (60% K2O)	cwt	21.27	1.3300	28.29	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	1.6000	7.10	_____
Quadris Top	oz	2.16	8.0000	17.28	_____
HERBICIDES					
Boundary 6.5 EC	pt	10.18	2.0000	20.36	_____
Gramoxone SL 2.0	oz	0.31	48.0000	14.88	_____
Glyphosate 3lbs a.e	pt	2.26	4.0000	9.04	_____
Prefix	pt	5.81	2.0000	11.62	_____
INSECTICIDES					
Acephate 90SP	lb	7.45	0.7500	5.59	_____
Prevathon	oz	1.25	14.0000	17.50	_____
Incidental Pest Trt	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.13	50.0000	56.50	_____
ADJUVANTS					
Surfactant	pt	5.35	0.7000	3.74	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
INOCULANT					
Vault	oz	1.73	2.0000	3.46	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5741	7.71	_____
Harvesters	hour	13.40	0.1021	1.37	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.0959	0.87	_____
UNALLOCATED LABOR					
	hour	13.42	0.4261	5.72	_____
DIESEL FUEL					
Tractors	gal	2.00	5.2180	10.43	_____
Harvesters	gal	2.00	1.3935	2.79	_____
Contour Flood Irr.	gal	2.00	10.9974	21.99	_____
REPAIR & MAINTENANCE					
Implements	acre	6.02	1.0000	6.02	_____
Tractors	acre	2.90	1.0000	2.90	_____
Harvesters	acre	3.35	1.0000	3.35	_____
Contour Flood Irr.	acre	12.71	1.0000	12.71	_____
INTEREST ON OP. CAP.	acre	8.82	1.0000	8.82	_____
TOTAL DIRECT EXPENSES				401.98	_____
FIXED EXPENSES					
Implements	acre	12.84	1.0000	12.84	_____
Tractors	acre	18.12	1.0000	18.12	_____
Harvesters	acre	13.23	1.0000	13.23	_____
Contour Flood Irr.	acre	39.18	1.0000	39.18	_____
TOTAL FIXED EXPENSES				83.37	_____
TOTAL SPECIFIED EXPENSES				485.35	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	8.98	53.0000	475.94	_____

TOTAL INCOME				475.94	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.50	1.0000	32.50	_____
HARVEST AIDS	acre	7.82	1.0000	7.82	_____
FERTILIZERS	acre	50.04	1.0000	50.04	_____
FUNGICIDES	acre	24.38	1.0000	24.38	_____
HERBICIDES	acre	55.90	1.0000	55.90	_____
INSECTICIDES	acre	31.09	1.0000	31.09	_____
SEED/PLANTS	acre	56.50	1.0000	56.50	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	15.18	1.0000	15.18	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
INOCULANT	acre	3.46	1.0000	3.46	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0959	0.87	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	13.40	0.6762	9.08	_____
UNALLOCATED LABOR	hour	13.42	0.4261	5.72	_____
DIESEL FUEL	gal	2.00	17.6091	35.21	_____
REPAIR & MAINTENANCE	acre	24.98	1.0000	24.98	_____
INTEREST ON OP. CAP.	acre	8.82	1.0000	8.82	_____

TOTAL DIRECT EXPENSES				401.98	_____
RETURNS ABOVE DIRECT EXPENSES				73.96	_____
TOTAL FIXED EXPENSES				83.37	_____

TOTAL SPECIFIED EXPENSES				485.35	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-9.41	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.C Estimated resource use for field operations, per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3300				
Disk Harrow	24'	MFWD 190	0.081	1.00	Nov		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.33	Nov	0.3300				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Soybeans Consultant	acre			1.00	May	1.0000				
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Vault	oz					2.0000				
Boundary 6.5 EC	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Quadris Top	oz					8.0000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					53.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.67	0.67	1.08	0.42

Note: Cost of production estimates are based on 2015 input prices.

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

Table 11.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Disk Harrow	24'		1.60	1.47	2.09			0.23	5.39	5.04	10.43
Lime (Spread)	ton	15.18						0.68	15.86		15.86
Custom Apply Fert	acre	7.00						0.32	7.32		7.32
Phosphorus (46% P2O5)	cwt	21.75						0.98	22.73		22.73
Potash (60% K2O)	cwt	28.29						1.27	29.56		29.56
Disk Harrow	24'		1.60	1.47	2.09			0.14	5.30	5.04	10.34
soybeans Consultant	acre	7.00						0.16	7.16		7.16
Field Cultivate Fld	24'		1.22	0.77	1.58			0.08	3.65	3.96	7.61
Plant & Pre-Folding	12R-30		1.32	2.17	2.34			0.13	5.96	5.82	11.78
Soybean Seed RR2	lb	56.50						1.27	57.77		57.77
CruiserMaxx	oz	7.10						0.16	7.26		7.26
Vault	oz	3.46						0.08	3.54		3.54
Boundary 6.5 EC	pt	20.36						0.46	20.82		20.82
Gramoxone SL 2.0	oz	14.88						0.33	15.21		15.21
Surfactant	pt	2.14						0.05	2.19		2.19
Spray (Broadcast)	60'		0.55	0.40	0.85			0.04	1.84	1.29	3.13
Glyphosate 3lbs a.e	pt	4.52						0.10	4.62		4.62
Prefix	pt	11.62						0.26	11.88		11.88
Spray (Broadcast)	60'		0.55	0.40	0.85			0.03	1.83	1.29	3.12
Glyphosate 3lbs a.e	pt	4.52						0.08	4.60		4.60
App by Air (5 gal)	appl	6.50						0.10	6.60		6.60
Quadris Top	oz	17.28						0.26	17.54		17.54
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Acephate 90SP	lb	5.59						0.06	5.65		5.65
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Prevathon	oz	17.50						0.20	17.70		17.70
Incidental Pest											
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Incidental Pest Trt	acre	8.00						0.06	8.06		8.06
App by Air (5 gal)	appl	6.50						0.05	6.55		6.55
Paraquat	oz	4.32						0.03	4.35		4.35
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	1.07						0.01	1.08		1.08
Header -Soybean	25' Flex		2.79	4.23	2.60			0.04	9.66	14.55	24.21
Haul Soybeans	bu	14.31						0.05	14.36		14.36
Grain Cart Soybean	700 bu		0.42	0.33	0.54				1.29	1.12	2.41
Contour Flood Irr.	acre	2.25	25.16	13.74	5.55			0.73	47.43	45.26	92.69
TOTALS		314.48	35.21	24.98	18.49	0.00	8.82	401.98	83.37	485.35	

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	475.94
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	13.00	13.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00
FERTILIZERS	50.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	17.28	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	51.38	4.52	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.09	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	56.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	0.54	0.00	1.07	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.09	0.00	0.00	0.00	0.00	2.09	5.22	2.64	1.57	1.57	0.17	3.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.60	0.00	0.00	0.00	0.00	1.60	3.09	9.06	8.23	8.23	0.19	3.21
REPAIR & MAINTENANCE	1.47	0.00	0.00	0.00	0.00	1.47	3.34	8.28	2.90	2.90	0.06	4.56
INTEREST ON OP. CAP.	3.63	0.00	0.00	0.00	0.00	0.14	3.13	0.49	0.56	0.55	0.23	0.09
TOTAL DIRECT EXPENSES	84.31	0.00	0.00	0.00	0.00	5.30	142.36	27.24	37.58	49.34	30.54	25.31
NET INCOME	-84.31	0.00	0.00	0.00	0.00	-5.30	-142.36	-27.24	-37.58	-49.34	-30.54	450.63
NET INCOME TO DATE	-84.31	-84.31	-84.31	-84.31	-84.31	-89.61	-231.97	-259.21	-296.79	-346.13	-376.67	73.96

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.73	7.18	7.63	8.08	8.53	8.98	9.42	9.87	10.32	10.77	11.22
			dollars										
PERCENT	YIELD	UNIT											
50	26.50	bu	-216	-204	-192	-180	-168	-156	-144	-133	-121	-109	-97
			-299	-287	-275	-263	-252	-240	-228	-216	-204	-192	-180
60	31.80	bu	-182	-167	-153	-139	-124	-110	-96	-82	-67	-53	-39
			-265	-251	-236	-222	-208	-194	-179	-165	-151	-136	-122
70	37.10	bu	-147	-131	-114	-97	-81	-64	-47	-31	-14	2	18
			-231	-214	-197	-181	-164	-147	-131	-114	-97	-81	-64
80	42.40	bu	-113	-94	-75	-56	-37	-18	0	19	38	57	76
			-196	-177	-158	-139	-120	-101	-82	-63	-44	-25	-6
90	47.70	bu	-79	-57	-36	-15	6	27	49	70	92	113	134
			-162	-141	-119	-98	-76	-55	-34	-12	8	30	51
100	53.00	bu	-45	-21	2	26	50	73	97	121	145	169	192
			-128	-104	-80	-57	-33	-9	14	38	61	85	109
110	58.30	bu	-10	15	41	67	93	120	146	172	198	224	251
			-94	-67	-41	-15	10	36	62	89	115	141	167
120	63.60	bu	23	52	80	109	137	166	194	223	251	280	309
			-59	-31	-2	25	54	82	111	140	168	197	225
130	68.90	bu	57	88	119	150	181	212	243	274	305	336	367
			-25	5	36	67	98	129	160	190	221	252	283
140	74.20	bu	92	125	158	191	225	258	291	325	358	391	425
			8	41	75	108	141	175	208	241	275	308	341
150	79.50	bu	126	161	197	233	269	304	340	376	411	447	483
			42	78	114	149	185	221	257	292	328	364	399

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2015 input prices.

Table 12.A Estimated costs per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.8700	21.75	_____
Potash (60% K2O)	cwt	21.27	1.3300	28.29	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	1.6000	7.10	_____
Quadris Top	oz	2.16	8.0000	17.28	_____
HERBICIDES					
Boundary 6.5 EC	pt	10.18	2.0000	20.36	_____
Gramoxone SL 2.0	oz	0.31	48.0000	14.88	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Dual Magnum	pt	13.01	2.0000	26.02	_____
Glyphosate 3lbs a.e	pt	2.26	2.0000	4.52	_____
INSECTICIDES					
Acephate 90SP	lb	7.45	0.7500	5.59	_____
Prevathon	oz	1.25	14.0000	17.50	_____
Baythroid XL	oz	2.55	2.1300	5.43	_____
Incidental Pest Trt	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.13	50.0000	56.50	_____
ADJUVANTS					
Surfactant	pt	5.35	0.6000	3.21	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.3300	15.18	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
INOCULANT					
Vault	oz	1.73	2.0000	3.46	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.1453	1.95	_____
Harvesters	hour	13.40	0.1021	1.37	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0959	0.87	_____
UNALLOCATED LABOR					
	hour	13.43	0.2128	2.86	_____
DIESEL FUEL					
Tractors	gal	2.00	1.6834	3.36	_____
Harvesters	gal	2.00	1.3935	2.79	_____
1/2-mi Pivot Irr.	gal	2.00	16.4057	32.80	_____
REPAIR & MAINTENANCE					
Implements	acre	3.36	1.0000	3.36	_____
Tractors	acre	1.03	1.0000	1.03	_____
Harvesters	acre	3.35	1.0000	3.35	_____
1/2-mi Pivot Irr.	acre	9.62	1.0000	9.62	_____
INTEREST ON OP. CAP.	acre	7.92	1.0000	7.92	_____
TOTAL DIRECT EXPENSES				388.11	_____
FIXED EXPENSES					
Implements	acre	5.69	1.0000	5.69	_____
Tractors	acre	6.53	1.0000	6.53	_____
Harvesters	acre	13.23	1.0000	13.23	_____
1/2-mi Pivot Irr.	acre	34.22	1.0000	34.22	_____
TOTAL FIXED EXPENSES				59.67	_____
TOTAL SPECIFIED EXPENSES				447.78	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	8.98	50.0000	449.00	_____

TOTAL INCOME				449.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
FERTILIZERS	acre	50.04	1.0000	50.04	_____
FUNGICIDES	acre	24.38	1.0000	24.38	_____
HERBICIDES	acre	70.26	1.0000	70.26	_____
INSECTICIDES	acre	36.52	1.0000	36.52	_____
SEED/PLANTS	acre	56.50	1.0000	56.50	_____
ADJUVANTS	acre	3.22	1.0000	3.22	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	15.18	1.0000	15.18	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
INOCULANT	acre	3.46	1.0000	3.46	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.0959	0.87	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	13.40	0.2475	3.32	_____
UNALLOCATED LABOR	hour	13.43	0.2128	2.86	_____
DIESEL FUEL	gal	2.00	19.4827	38.95	_____
REPAIR & MAINTENANCE	acre	17.36	1.0000	17.36	_____
INTEREST ON OP. CAP.	acre	7.92	1.0000	7.92	_____

TOTAL DIRECT EXPENSES				388.11	_____
RETURNS ABOVE DIRECT EXPENSES				60.89	_____
TOTAL FIXED EXPENSES				59.67	_____

TOTAL SPECIFIED EXPENSES				447.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				1.22	_____

Note: Cost of production estimates are based on 2015 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3300				
Lime (Spread)	ton			0.33	Nov	0.3300				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Vault	oz					2.0000				
Boundary 6.5 EC	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Quadris Top	oz					8.0000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Baythroid XL	oz					2.1300				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.24	0.24	0.39	0.21

Note: Cost of production estimates are based on 2015 input prices.

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

Table 12.D Estimated costs for field operations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45	3.45
Lime (Spread)	ton	15.18						0.68	15.86	15.86
Custom Apply Fert	acre	7.00						0.32	7.32	7.32
Phosphorus (46% P2O5)	cwt	21.75						0.98	22.73	22.73
Potash (60% K2O)	cwt	28.29						1.27	29.56	29.56
soybeans Consultant	acre	7.00						0.16	7.16	7.16
Plant & Pre-Folding	12R-30		1.57	2.27	2.30			0.12	6.26	6.46
Soybean Seed RR2	lb	56.50						1.06	57.56	57.56
CruiserMaxx	oz	7.10						0.13	7.23	7.23
Vault	oz	3.46						0.06	3.52	3.52
Boundary 6.5 EC	pt	20.36						0.38	20.74	20.74
Gramoxone SL 2.0	oz	14.88						0.28	15.16	15.16
Surfactant	pt	2.14						0.04	2.18	2.18
Spray (Broadcast)	60'		0.65	0.44	0.84			0.04	1.97	1.56
Glyphosate 3lbs a.e	oz	4.48						0.08	4.56	4.56
Dual Magnum	pt	13.01						0.24	13.25	13.25
Spray (Broadcast)	60'		0.65	0.44	0.84			0.03	1.96	1.56
Glyphosate 3lbs a.e	pt	4.52						0.07	4.59	4.59
Dual Magnum	pt	13.01						0.20	13.21	13.21
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Quadris Top	oz	17.28						0.19	17.47	17.47
Surfactant	pt	0.54						0.01	0.55	0.55
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Acephate 90SP	lb	5.59						0.06	5.65	5.65
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Prevathon	oz	17.50						0.20	17.70	17.70
Surfactant	pt	0.54						0.01	0.55	0.55
Baythroid XL	oz	5.43						0.06	5.49	5.49
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.05	6.55	6.55
Incidental Pest Trt	acre	8.00						0.06	8.06	8.06
Header -Soybean	25' Flex		2.79	4.23	2.55			0.04	9.61	14.55
Haul Soybeans	bu	13.50						0.05	13.55	13.55
Grain Cart Soybean	700 bu		0.49	0.36	0.52			0.01	1.38	1.32
1/2-mi Pivot Irr.	acre		32.80	9.62	0.47			0.68	43.57	34.22
TOTALS		316.36	38.95	17.36	7.52	0.00	7.92	388.11	59.67	447.78

Note: Cost of production estimates are based on 2015 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	449.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	6.50	0.00
FERTILIZERS	50.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	17.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.73	17.53	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	28.52	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	1.08	0.00	0.00
CUSTOM FERTILIZE	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	3.18	0.89	0.04	0.00	3.07
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.06	13.77	9.84	0.00	3.28
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.07	1.16	0.54	0.00	4.59
INTEREST ON OP. CAP.	3.40	0.00	0.00	0.00	0.00	0.00	0.17	2.77	0.51	0.86	0.11	0.10
TOTAL DIRECT EXPENSES	78.92	0.00	0.00	0.00	0.00	0.00	7.51	151.01	33.86	77.66	14.61	24.54
NET INCOME	-78.92	0.00	0.00	0.00	0.00	0.00	-7.51	-151.01	-33.86	-77.66	-14.61	424.46
NET INCOME TO DATE	-78.92	-78.92	-78.92	-78.92	-78.92	-78.92	-86.43	-237.44	-271.30	-348.96	-363.57	60.89

Note: Cost of production estimates are based on 2015 input prices.

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

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			6.73	7.18	7.63	8.08	8.53	8.98	9.42	9.87	10.32	10.77	11.22
PERCENT	YIELD	UNIT	dollars										
50	25.00	bu	-212	-201	-190	-179	-168	-156	-145	-134	-123	-111	-100
			-272	-261	-250	-238	-227	-216	-205	-194	-182	-171	-160
60	30.00	bu	-180	-167	-153	-140	-126	-113	-99	-86	-72	-59	-45
			-240	-226	-213	-199	-186	-172	-159	-146	-132	-119	-105
70	35.00	bu	-148	-132	-116	-101	-85	-69	-54	-38	-22	-6	8
			-207	-192	-176	-160	-145	-129	-113	-97	-82	-66	-50
80	40.00	bu	-116	-98	-80	-62	-44	-26	-8	9	27	45	63
			-175	-157	-139	-121	-103	-85	-67	-49	-31	-14	3
90	45.00	bu	-83	-63	-43	-23	-2	17	37	57	77	98	118
			-143	-123	-102	-82	-62	-42	-22	-1	18	38	58
100	50.00	bu	-51	-28	-6	15	38	60	83	105	128	150	173
			-111	-88	-66	-43	-21	1	23	46	68	91	113
110	55.00	bu	-19	5	30	55	79	104	129	153	178	203	227
			-78	-54	-29	-4	20	44	69	94	118	143	168
120	60.00	bu	13	40	67	94	121	147	174	201	228	255	282
			-46	-19	7	34	61	88	115	142	169	196	223
130	65.00	bu	45	74	103	133	162	191	220	249	279	308	337
			-14	15	44	73	102	131	161	190	219	248	277
140	70.00	bu	77	109	140	172	203	235	266	297	329	360	392
			18	49	81	112	143	175	206	238	269	301	332
150	75.00	bu	110	143	177	211	244	278	312	345	379	413	446
			50	84	117	151	185	218	252	286	319	353	387

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 2015 input prices.

Table 13.A Estimated costs per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	0.2000	1.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.8000	50.67	_____
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
Fert 10-34-0	cwt	32.50	0.5000	16.25	_____
Zinc Plus	pt	3.00	2.0000	6.00	_____
UAN + Sulfur (28%)	cwt	16.33	3.5710	58.31	_____
UAN (32% N)	cwt	15.95	4.3750	69.78	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Clarity	pt	12.89	0.5000	6.45	_____
Select Max	pt	12.35	1.0000	12.35	_____
Atrazine 4L	pt	2.03	4.0000	8.12	_____
Halex GT	pt	7.22	3.6000	25.99	_____
INSECTICIDES					
Bifenthrin	oz	0.89	1.2800	1.14	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed B2RR	thous	3.27	34.0000	111.18	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn	bu	0.23	210.0000	48.30	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Corn Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4239	5.70	_____
Harvesters	hour	13.40	0.1009	1.35	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1354	1.22	_____
UNALLOCATED LABOR					
	hour	13.36	0.4017	5.37	_____
DIESEL FUEL					
Tractors	gal	2.00	4.6431	9.29	_____
Harvesters	gal	2.00	1.6890	3.38	_____
Roll-Out Pipe Irr.	gal	2.00	10.5901	21.20	_____
REPAIR & MAINTENANCE					
Implements	acre	7.56	1.0000	7.56	_____
Tractors	acre	2.81	1.0000	2.81	_____
Harvesters	acre	3.49	1.0000	3.49	_____
Roll-Out Pipe Irr.	acre	6.36	1.0000	6.36	_____
INTEREST ON OP. CAP.	acre	14.80	1.0000	14.80	_____
TOTAL DIRECT EXPENSES				600.73	_____
FIXED EXPENSES					
Implements	acre	11.53	1.0000	11.53	_____
Tractors	acre	17.58	1.0000	17.58	_____
Harvesters	acre	13.78	1.0000	13.78	_____
Roll-Out Pipe Irr.	acre	52.50	1.0000	52.50	_____
TOTAL FIXED EXPENSES				95.39	_____
TOTAL SPECIFIED EXPENSES				696.12	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 13.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.88	210.0000	814.80	_____

TOTAL INCOME				814.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.50	1.0000	7.50	_____
FERTILIZERS	acre	232.92	1.0000	232.92	_____
HERBICIDES	acre	57.39	1.0000	57.39	_____
INSECTICIDES	acre	1.14	1.0000	1.14	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	111.18	1.0000	111.18	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	48.30	1.0000	48.30	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1354	1.22	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	13.40	0.5249	7.05	_____
UNALLOCATED LABOR	hour	13.36	0.4017	5.37	_____
DIESEL FUEL	gal	2.00	16.9223	33.87	_____
REPAIR & MAINTENANCE	acre	20.22	1.0000	20.22	_____
INTEREST ON OP. CAP.	acre	14.80	1.0000	14.80	_____

TOTAL DIRECT EXPENSES				600.73	_____
RETURNS ABOVE DIRECT EXPENSES				214.07	_____
TOTAL FIXED EXPENSES				95.39	_____

TOTAL SPECIFIED EXPENSES				696.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				118.68	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 13.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	Mar		0.05	0.05	0.10	0.04
Corn Seed B2RR	thous					34.0000				
Fert 10-34-0	cwt					0.5000				
Zinc Plus	pt					2.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					4.3750				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Header - Corn	8R-38	325 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					210.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.52	0.52	1.04	0.40

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 13.D Estimated costs for field operations, per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Spin Spreader	5 ton		0.97	0.59	1.45			0.14	3.15	2.47	5.62
DAP	cwt	50.67						2.28	52.95		52.95
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Bed/Disk w/roller	12R-30/40		1.45	1.18	1.59			0.19	4.41	4.73	9.14
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Clarity	pt	6.45						0.19	6.64		6.64
Select Max	pt	12.35						0.37	12.72		12.72
Plant & Pre-Folding	12R-38		1.24	1.96	1.84			0.13	5.17	5.42	10.59
Corn Seed B2RR	thous	111.18						2.92	114.10		114.10
Fert 10-34-0	cwt	16.25						0.43	16.68		16.68
Zinc Plus	pt	6.00						0.16	6.16		6.16
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
UAN + Sulfur (28%)	cwt	58.31						1.31	59.62		59.62
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Atrazine 4L	pt	8.12						0.18	8.30		8.30
Halex GT	pt	25.99						0.58	26.57		26.57
Corn Consultant	acre	7.00						0.13	7.13		7.13
Fert Appl (Liquid)	12R-38		1.20	0.97	1.54			0.07	3.78	3.00	6.78
UAN (32% N)	cwt	69.78						1.31	71.09		71.09
App by Air (3 gal)	appl	1.00						0.02	1.02		1.02
Bifenthrin	oz	1.14						0.02	1.16		1.16
Header - Corn	8R-38		3.38	4.98	2.57			0.04	10.97	16.03	27.00
Grain Cart Corn	700 bu		0.58	0.43	0.64			0.01	1.66	1.55	3.21
Haul Corn	bu	48.30						0.18	48.48		48.48
Stalk Shredder Flex	20'		1.91	2.77	2.10			0.03	6.81	5.02	11.83
Roll-Out Pipe Irr.	acre	8.58	22.49	6.90	4.59			0.63	43.19	55.61	98.80
TOTALS		514.67	33.87	20.22	17.17	0.00	14.80	600.73	95.39	696.12	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 13.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	814.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00
FERTILIZERS	82.58	0.00	0.00	0.00	0.00	22.25	58.31	69.78	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	0.00	34.11	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	111.18	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.30
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.55	0.00	0.00	0.00	0.00	1.84	0.85	1.77	3.03	0.23	0.59	5.31
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.16	0.00	0.00	0.00	0.00	1.24	0.65	1.20	16.20	5.30	0.25	5.87
REPAIR & MAINTENANCE	2.09	0.00	0.00	0.00	0.00	1.96	0.44	0.97	5.50	0.98	0.10	8.18
INTEREST ON OP. CAP.	5.64	0.00	0.00	0.00	0.88	3.64	2.27	1.55	0.48	0.07	0.01	0.26
TOTAL DIRECT EXPENSES	130.68	0.00	0.00	0.00	30.66	142.11	103.63	84.41	33.79	6.58	0.95	67.92
NET INCOME	-130.68	0.00	0.00	0.00	-30.66	-142.11	-103.63	-84.41	-33.79	-6.58	-0.95	746.88
NET INCOME TO DATE	-130.68	-130.68	-130.68	-130.68	-161.34	-303.45	-407.08	-491.49	-525.28	-531.86	-532.81	214.07

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Corn	2.91	3.10	3.29	3.49	3.68	3.88	4.07	4.26	4.46	4.65	4.85		
PERCENT	YIELD	UNIT	dollars										
50	105.00	bu	-270 -366	-250 -345	-230 -325	-209 -305	-189 -284	-169 -264	-148 -244	-128 -223	-107 -203	-87 -183	-67 -162
60	126.00	bu	-214 -310	-190 -285	-165 -261	-141 -236	-116 -212	-92 -187	-68 -163	-43 -138	-19 -114	5 -90	29 -65
70	147.00	bu	-158 -253	-129 -225	-101 -196	-72 -168	-44 -139	-15 -111	12 -82	41 -54	69 -25	98 2	126 31
80	168.00	bu	-102 -197	-69 -164	-36 -132	-4 -99	28 -67	60 -34	93 -1	125 30	158 63	191 95	223 128
90	189.00	bu	-45 -141	-9 -104	27 -67	64 -31	100 5	137 42	174 78	210 115	247 152	284 188	320 225
100	210.00	bu	10 -85	51 -44	91 -3	132 37	173 77	214 118	254 159	295 200	336 240	377 281	417 322
110	231.00	bu	66 -28	111 16	156 60	201 105	245 150	290 195	335 240	380 284	425 329	469 374	514 419
120	252.00	bu	122 27	171 76	220 125	269 174	318 223	367 271	416 320	465 369	513 418	562 467	611 516
130	273.00	bu	179 83	232 136	285 189	338 242	391 295	443 348	496 401	549 454	602 507	655 560	708 613
140	294.00	bu	235 140	292 197	349 254	406 311	463 368	520 425	577 482	634 539	691 596	748 653	805 710
150	315.00	bu	291 196	352 257	413 318	475 379	536 440	597 501	658 562	719 624	780 685	841 746	902 807

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 2015 input prices

Table 14.A Estimated costs per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	0.2000	1.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.0870	30.60	_____
Potash (60% K2O)	cwt	21.27	0.8300	17.65	_____
Fert 10-34-0	cwt	32.50	0.5000	16.25	_____
Zinc Plus	pt	3.00	2.0000	6.00	_____
UAN + Sulfur (28%)	cwt	16.33	2.1430	35.00	_____
UAN (32% N)	cwt	15.95	3.2815	52.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Clarity	pt	12.89	0.5000	6.45	_____
Select Max	pt	12.35	1.0000	12.35	_____
Atrazine 4L	pt	2.03	4.0000	8.12	_____
Halex GT	pt	7.22	3.6000	25.99	_____
INSECTICIDES					
Bifenthrin	oz	0.89	1.2800	1.14	_____
SEED/PLANTS					
Corn Seed B2RR	thous	3.27	28.0000	91.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn	bu	0.23	150.0000	34.50	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Corn Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.3454	4.64	_____
Harvesters	hour	13.40	0.1009	1.35	_____
HAND LABOR					
Implements	hour	9.06	0.1354	1.22	_____
UNALLOCATED LABOR	hour	13.36	0.4017	5.37	_____
DIESEL FUEL					
Tractors	gal	2.00	4.0005	8.00	_____
Harvesters	gal	2.00	1.3770	2.75	_____
REPAIR & MAINTENANCE					
Implements	acre	7.36	1.0000	7.36	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	3.31	1.0000	3.31	_____
INTEREST ON OP. CAP.	acre	11.20	1.0000	11.20	_____
TOTAL DIRECT EXPENSES				445.26	_____
FIXED EXPENSES					
Implements	acre	10.50	1.0000	10.50	_____
Tractors	acre	15.50	1.0000	15.50	_____
Harvesters	acre	13.07	1.0000	13.07	_____
TOTAL FIXED EXPENSES				39.07	_____
TOTAL SPECIFIED EXPENSES				484.33	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 14.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.88	150.0000	582.00	_____

TOTAL INCOME				582.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.50	1.0000	7.50	_____
FERTILIZERS	acre	157.84	1.0000	157.84	_____
HERBICIDES	acre	57.39	1.0000	57.39	_____
INSECTICIDES	acre	1.14	1.0000	1.14	_____
SEED/PLANTS	acre	91.56	1.0000	91.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	34.50	1.0000	34.50	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1354	1.22	_____
OPERATOR LABOR	hour	13.40	0.4463	5.99	_____
UNALLOCATED LABOR	hour	13.36	0.4017	5.37	_____
DIESEL FUEL	gal	2.00	5.3776	10.75	_____
REPAIR & MAINTENANCE	acre	13.14	1.0000	13.14	_____
INTEREST ON OP. CAP.	acre	11.20	1.0000	11.20	_____

TOTAL DIRECT EXPENSES				445.26	_____
RETURNS ABOVE DIRECT EXPENSES				136.74	_____
TOTAL FIXED EXPENSES				39.07	_____

TOTAL SPECIFIED EXPENSES				484.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				97.67	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 14.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

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	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	Mar		0.05	0.05	0.10	0.04
Corn Seed B2RR	thous					28.0000				
Fert 10-34-0	cwt					0.5000				
Zinc Plus	pt					2.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					3.2815				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2800				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					150.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.44	0.44	0.58	0.40

Note: Cost of production estimates are based on 2015 input prices..

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 14.D Estimated costs for field operations, per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Spin Spreader	5 ton		0.97	0.59	1.45			0.14	3.15	2.47	5.62
DAP	cwt	30.60						1.38	31.98		31.98
Potash (60% K2O)	cwt	17.65						0.79	18.44		18.44
Bed/Disk w/roller	12R-30/40		1.45	1.18	1.59			0.19	4.41	4.73	9.14
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Clarity	pt	6.45						0.19	6.64		6.64
Select Max	pt	12.35						0.37	12.72		12.72
Plant & Pre-Folding	12R-38		1.24	1.96	1.84			0.13	5.17	5.42	10.59
Corn Seed B2RR	thous	91.56						2.40	93.96		93.96
Fert 10-34-0	cwt	16.25						0.43	16.68		16.68
Zinc Plus	pt	6.00						0.16	6.16		6.16
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
UAN + Sulfur (28%)	cwt	35.00						0.79	35.79		35.79
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
Atrazine 4L	pt	8.12						0.18	8.30		8.30
Halex GT	pt	25.99						0.58	26.57		26.57
Corn Consultant	acre	7.00						0.13	7.13		7.13
Fert Appl (Liquid)	12R-38		1.20	0.97	1.54			0.07	3.78	3.00	6.78
UAN (32% N)	cwt	52.34						0.98	53.32		53.32
App by Air (3 gal)	appl	1.00						0.02	1.02		1.02
Bifenthrin	oz	1.14						0.02	1.16		1.16
Header - Corn	8R-38		2.75	4.80	2.57			0.04	10.16	15.32	25.48
Grain Cart Corn	700 bu		0.58	0.43	0.64			0.01	1.66	1.55	3.21
Haul Corn	bu	34.50						0.13	34.63		34.63
Stalk Shredder Flex	20'		1.91	2.77	2.10			0.03	6.81	5.02	11.83
TOTALS		397.59	10.75	13.14	12.58	0.00	11.20	445.26	39.07	484.33	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 14.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	582.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00
FERTILIZERS	48.25	0.00	0.00	0.00	0.00	22.25	35.00	52.34	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	0.00	34.11	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	91.56	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.04	0.00	0.00	0.00	0.00	1.84	0.85	1.54	0.00	0.00	0.00	5.31
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	2.42	0.00	0.00	0.00	0.00	1.24	0.65	1.20	0.00	0.00	0.00	5.24
REPAIR & MAINTENANCE	1.77	0.00	0.00	0.00	0.00	1.96	0.44	0.97	0.00	0.00	0.00	8.00
INTEREST ON OP. CAP.	4.02	0.00	0.00	0.00	0.88	3.12	1.75	1.22	0.00	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	93.16	0.00	0.00	0.00	30.66	121.97	79.80	66.41	0.00	0.00	0.00	53.26
NET INCOME	-93.16	0.00	0.00	0.00	-30.66	-121.97	-79.80	-66.41	0.00	0.00	0.00	528.74
NET INCOME TO DATE	-93.16	-93.16	-93.16	-93.16	-123.82	-245.79	-325.59	-392.00	-392.00	-392.00	-392.00	136.74

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Corn			2.91	3.10	3.29	3.49	3.68	3.88	4.07	4.26	4.46	4.65	4.85
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	bu	-209 -248	-195 -234	-180 -219	-166 -205	-151 -190	-136 -176	-122 -161	-107 -146	-93 -132	-78 -117	-64 -103
60	90.00	bu	-169 -208	-152 -191	-134 -173	-117 -156	-99 -138	-82 -121	-64 -103	-47 -86	-29 -68	-12 -51	5 -33
70	105.00	bu	-129 -168	-108 -148	-88 -127	-68 -107	-47 -86	-27 -66	-7 -46	13 -25	33 -5	54 14	74 35
80	120.00	bu	-89 -128	-65 -104	-42 -81	-19 -58	3 -35	27 -11	50 11	73 34	97 58	120 81	143 104
90	135.00	bu	-48 -88	-22 -61	3 -35	29 -9	55 16	82 42	108 69	134 95	160 121	186 147	212 173
100	150.00	bu	-8 -47	20 -18	49 10	78 39	107 68	136 97	165 126	194 155	224 184	253 214	282 243
110	165.00	bu	31 -7	63 24	95 56	127 88	159 120	191 152	223 184	255 216	287 248	319 280	351 312
120	180.00	bu	71 32	106 67	141 102	176 137	211 172	246 207	281 242	316 276	350 311	385 346	420 381
130	195.00	bu	111 72	149 110	187 148	225 186	263 224	300 261	338 299	376 337	414 375	452 413	490 451
140	210.00	bu	151 112	192 153	233 194	274 235	314 275	355 316	396 357	437 398	477 438	518 479	559 520
150	225.00	bu	192 153	235 196	279 240	323 284	366 327	410 371	454 415	497 458	541 502	585 545	628 589

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 2015 input prices.

Table 15.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.8000	50.67	_____
Potash (60% K2O)	cwt	21.27	1.5000	31.91	_____
UAN + Sulfur (28%)	cwt	16.33	3.5710	58.31	_____
UAN (32% N)	cwt	15.95	4.3750	69.78	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Clarity	pt	12.89	0.5000	6.45	_____
Select Max	pt	12.35	1.0000	12.35	_____
Atrazine 4L	pt	2.03	4.0000	8.12	_____
Halex GT	pt	7.22	3.6000	25.99	_____
INSECTICIDES					
Intrepid 2F	oz	2.01	4.0000	8.04	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.02	34.0000	102.68	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn	bu	0.23	210.0000	48.30	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Corn Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.6927	9.30	_____
Harvesters	hour	13.40	0.1009	1.35	_____
Self-Propelled	hour	13.40	0.0176	0.24	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1175	1.06	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	13.37	0.6595	8.82	_____
DIESEL FUEL					
Tractors	gal	2.00	7.7557	15.53	_____
Harvesters	gal	2.00	1.3770	2.75	_____
Self-Propelled	gal	2.00	0.1586	0.32	_____
Roll-Out Pipe Irr.	gal	2.00	10.5901	21.20	_____
REPAIR & MAINTENANCE					
Implements	acre	9.24	1.0000	9.24	_____
Tractors	acre	4.73	1.0000	4.73	_____
Harvesters	acre	3.31	1.0000	3.31	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
Roll-Out Pipe Irr.	acre	6.36	1.0000	6.36	_____
INTEREST ON OP. CAP.	acre	14.80	1.0000	14.80	_____
TOTAL DIRECT EXPENSES				597.60	_____
FIXED EXPENSES					
Implements	acre	15.95	1.0000	15.95	_____
Tractors	acre	29.63	1.0000	29.63	_____
Harvesters	acre	13.07	1.0000	13.07	_____
Self-Propelled	acre	1.08	1.0000	1.08	_____
Roll-Out Pipe Irr.	acre	52.50	1.0000	52.50	_____
TOTAL FIXED EXPENSES				112.23	_____
TOTAL SPECIFIED EXPENSES				709.83	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 15.B Summary of estimated costs and returns per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.88	210.0000	814.80	_____

TOTAL INCOME				814.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	11.50	1.0000	11.50	_____
FERTILIZERS	acre	210.67	1.0000	210.67	_____
HERBICIDES	acre	57.39	1.0000	57.39	_____
INSECTICIDES	acre	8.04	1.0000	8.04	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	102.68	1.0000	102.68	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	48.30	1.0000	48.30	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1263	1.14	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	13.40	0.8113	10.89	_____
UNALLOCATED LABOR	hour	13.37	0.6595	8.82	_____
DIESEL FUEL	gal	2.00	19.8817	39.80	_____
REPAIR & MAINTENANCE	acre	23.80	1.0000	23.80	_____
INTEREST ON OP. CAP.	acre	14.80	1.0000	14.80	_____

TOTAL DIRECT EXPENSES				597.60	_____
RETURNS ABOVE DIRECT EXPENSES				217.20	_____
TOTAL FIXED EXPENSES				112.23	_____

TOTAL SPECIFIED EXPENSES				709.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				104.97	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 15.C Estimated resource use for field operations, per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 225	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 225	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Soil Test	acre			0.33	Oct	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.5000				
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Row Cond./Roll-Fold.	30'	MFWD 225	0.062	1.00	Mar		0.06	0.06	0.06	0.05
Plant - Folding	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					34.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					4.3750				
Cultivate	12R-38	MFWD 225	0.054	1.00	May		0.05	0.05	0.05	0.04
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					210.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.81	0.79	1.32	0.65

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 15.D Estimated costs for field operations, per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		2.37	0.85	2.60			0.26	6.08	4.88	10.96
Disk Harrow	24'		1.90	1.59	2.09			0.25	5.83	5.81	11.64
Soil Test	acre	3.30						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Spin Spreader	5 ton		0.97	0.59	1.45			0.14	3.15	2.47	5.62
DAP	cwt	50.67						2.28	52.95		52.95
Potash (60% K2O)	cwt	31.91						1.44	33.35		33.35
Bed/Disk w/roller	12R-30/40		1.45	1.18	1.59			0.19	4.41	4.73	9.14
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Clarity	pt	6.45						0.19	6.64		6.64
Select Max	pt	12.35						0.37	12.72		12.72
Row Cond./Roll-Fold.	30'		1.45	0.96	1.59			0.11	4.11	4.14	8.25
Plant - Folding	12R-38		1.15	1.67	1.71			0.12	4.65	4.76	9.41
Corn Seed RR2	thous	102.68						2.70	105.38		105.38
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
UAN + Sulfur (28%)	cwt	58.31						1.31	59.62		59.62
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.53			0.02	1.03	1.08	2.11
Atrazine 4L	pt	8.12						0.18	8.30		8.30
Halex GT	pt	25.99						0.58	26.57		26.57
Corn Consultant	acre	7.00						0.13	7.13		7.13
Fert Appl (Liquid)	12R-38		1.20	0.97	1.54			0.07	3.78	3.00	6.78
UAN (32% N)	cwt	69.78						1.31	71.09		71.09
Cultivate	12R-38		1.26	0.93	1.38			0.07	3.64	3.86	7.50
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Intrepid 2F	oz	8.04						0.12	8.16		8.16
Header - Corn	8R-38		2.75	4.80	2.57			0.04	10.16	15.32	25.48
Grain Cart Corn	700 bu		0.58	0.43	0.64			0.01	1.66	1.55	3.21
Haul Corn	bu	48.30						0.18	48.48		48.48
Stalk Shredder Flex	20'		1.91	2.77	2.10			0.03	6.81	5.02	11.83
Roll-Out Pipe Irr.	acre	8.58	22.49	6.90	4.59			0.63	43.19	55.61	98.80
TOTALS		494.82	39.80	23.80	24.38	0.00	14.80	597.60	112.23	709.83	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 15.E Estimated monthly income and expense flows per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	814.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	5.00	0.00	0.00	0.00
FERTILIZERS	82.58	0.00	0.00	0.00	0.00	0.00	58.31	69.78	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.28	0.00	34.11	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.04	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	102.68	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.30
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	8.24	0.00	0.00	0.00	0.00	3.30	0.53	3.15	3.03	0.23	0.59	5.31
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.43	0.00	0.00	0.00	0.00	2.60	0.32	2.46	16.20	5.30	0.25	5.24
REPAIR & MAINTENANCE	4.53	0.00	0.00	0.00	0.00	2.63	0.16	1.90	5.50	0.98	0.10	8.00
INTEREST ON OP. CAP.	6.15	0.00	0.00	0.00	0.88	2.93	2.25	1.58	0.67	0.07	0.01	0.26
TOTAL DIRECT EXPENSES	142.59	0.00	0.00	0.00	30.66	114.14	102.68	85.87	47.02	6.58	0.95	67.11
NET INCOME	-142.59	0.00	0.00	0.00	-30.66	-114.14	-102.68	-85.87	-47.02	-6.58	-0.95	747.69
NET INCOME TO DATE	-142.59	-142.59	-142.59	-142.59	-173.25	-287.39	-390.07	-475.94	-522.96	-529.54	-530.49	217.20

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.91	3.10	3.29	3.49	3.68	3.88	4.07	4.26	4.46	4.65	4.85		
PERCENT	YIELD	UNIT	dollars										
50	105.00	bu	-267 -380	-247 -359	-227 -339	-206 -318	-186 -298	-165 -278	-145 -257	-125 -237	-104 -217	-84 -196	-64 -176
60	126.00	bu	-211 -323	-187 -299	-162 -274	-138 -250	-113 -226	-89 -201	-64 -177	-40 -152	-15 -128	8 -103	32 -79
70	147.00	bu	-155 -267	-126 -238	-98 -210	-69 -181	-41 -153	-12 -124	15 -96	44 -67	72 -39	101 -10	129 17
80	168.00	bu	-99 -211	-66 -178	-33 -146	-1 -113	31 -80	63 -48	96 -15	129 16	161 49	194 82	226 114
90	189.00	bu	-42 -154	-6 -118	30 -81	67 -44	103 -8	140 28	177 65	213 101	250 138	287 175	323 211
100	210.00	bu	13 -98	54 -57	94 -17	135 23	176 64	217 104	257 145	298 186	339 227	380 267	420 308
110	231.00	bu	69 -42	114 2	159 47	204 91	249 136	293 181	338 226	383 271	428 316	473 360	517 405
120	252.00	bu	126 13	174 62	223 111	272 160	321 209	370 258	419 307	468 356	517 404	566 453	614 502
130	273.00	bu	182 70	235 123	288 175	341 228	394 281	447 334	500 387	553 440	605 493	658 546	711 599
140	294.00	bu	238 126	295 183	352 240	409 297	466 354	523 411	580 468	637 525	694 582	751 639	808 696
150	315.00	bu	294 182	355 243	417 304	478 365	539 427	600 488	661 549	722 610	783 671	844 732	905 793

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 2015 input prices.

Table 16.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.0870	30.60	_____
Potash (60% K2O)	cwt	21.27	0.8300	17.65	_____
UAN + Sulfur (28%)	cwt	16.33	2.1430	35.00	_____
UAN (32% N)	cwt	15.95	3.2815	52.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	2.0000	4.52	_____
Clarity	pt	12.89	0.5000	6.45	_____
Select Max	pt	12.35	1.0000	12.35	_____
Atrazine 4L	pt	2.03	4.0000	8.12	_____
Halex GT	pt	7.22	3.6000	25.99	_____
INSECTICIDES					
Intrepid 2F	oz	2.01	4.0000	8.04	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.02	28.0000	84.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn	bu	0.23	150.0000	34.50	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Corn Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5687	7.62	_____
Harvesters	hour	13.40	0.1009	1.35	_____
Self-Propelled	hour	13.40	0.0176	0.24	_____
HAND LABOR					
Implements	hour	9.06	0.1175	1.06	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	13.38	0.6186	8.28	_____
DIESEL FUEL					
Tractors	gal	2.00	6.5869	13.18	_____
Harvesters	gal	2.00	1.3770	2.75	_____
Self-Propelled	gal	2.00	0.1586	0.32	_____
REPAIR & MAINTENANCE					
Implements	acre	7.82	1.0000	7.82	_____
Tractors	acre	4.06	1.0000	4.06	_____
Harvesters	acre	3.31	1.0000	3.31	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
INTEREST ON OP. CAP.	acre	11.17	1.0000	11.17	_____
TOTAL DIRECT EXPENSES				440.68	_____
FIXED EXPENSES					
Implements	acre	12.04	1.0000	12.04	_____
Tractors	acre	25.52	1.0000	25.52	_____
Harvesters	acre	13.07	1.0000	13.07	_____
Self-Propelled	acre	1.08	1.0000	1.08	_____
TOTAL FIXED EXPENSES				51.71	_____
TOTAL SPECIFIED EXPENSES				492.39	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 16.B Summary of estimated costs and returns per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.88	150.0000	582.00	_____

TOTAL INCOME				582.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	11.50	1.0000	11.50	_____
FERTILIZERS	acre	135.59	1.0000	135.59	_____
HERBICIDES	acre	57.43	1.0000	57.43	_____
INSECTICIDES	acre	8.04	1.0000	8.04	_____
SEED/PLANTS	acre	84.56	1.0000	84.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	34.50	1.0000	34.50	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1263	1.14	_____
OPERATOR LABOR	hour	13.40	0.6873	9.21	_____
UNALLOCATED LABOR	hour	13.38	0.6186	8.28	_____
DIESEL FUEL	gal	2.00	8.1226	16.25	_____
REPAIR & MAINTENANCE	acre	15.35	1.0000	15.35	_____
INTEREST ON OP. CAP.	acre	11.17	1.0000	11.17	_____

TOTAL DIRECT EXPENSES				440.68	_____
RETURNS ABOVE DIRECT EXPENSES				141.32	_____
TOTAL FIXED EXPENSES				51.71	_____

TOTAL SPECIFIED EXPENSES				492.39	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.61	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 16.C Estimated resource use for field operations, per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Subsoiler	3 shank	MFWD 225	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 225	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Soil Test	acre			0.33	Oct	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed/Disk (Hipper)Rd	8R-38	MFWD 225	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Row Cond Rigid	26'	MFWD 225	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Folding	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Corn Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					3.2815				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					150.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.68	0.66	0.81	0.61

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 16.D Estimated costs for field operations, per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		2.37	0.85	2.60			0.26	6.08	4.88	10.96
Disk Harrow	24'		1.90	1.59	2.09			0.25	5.83	5.81	11.64
Soil Test	acre	3.30						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Spin Spreader	5 ton		0.97	0.59	1.45			0.14	3.15	2.47	5.62
DAP	cwt	30.60						1.38	31.98		31.98
Potash (60% K2O)	cwt	17.65						0.79	18.44		18.44
Bed/Disk (Hipper)Rd	8R-38		1.72	0.88	1.88			0.20	4.68	4.25	8.93
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	pt	4.52						0.14	4.66		4.66
Clarity	pt	6.45						0.19	6.64		6.64
Select Max	pt	12.35						0.37	12.72		12.72
Row Cond Rigid	26'		1.38	0.64	1.52			0.09	3.63	3.57	7.20
Plant - Folding	12R-38		1.15	1.67	1.71			0.12	4.65	4.76	9.41
Corn Seed RR2	thous	84.56						2.22	86.78		86.78
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
UAN + Sulfur (28%)	cwt	35.00						0.79	35.79		35.79
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.53			0.02	1.03	1.08	2.11
Atrazine 4L	pt	8.12						0.18	8.30		8.30
Halex GT	pt	25.99						0.58	26.57		26.57
Corn Consultant	acre	7.00						0.13	7.13		7.13
Fert Appl (Liquid)	12R-38		1.20	0.97	1.54			0.07	3.78	3.00	6.78
UAN (32% N)	cwt	52.34						0.98	53.32		53.32
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Intrepid 2F	oz	8.04						0.12	8.16		8.16
Header - Corn	8R-38		2.75	4.80	2.57			0.04	10.16	15.32	25.48
Grain Cart Corn	700 bu		0.58	0.43	0.64			0.01	1.66	1.55	3.21
Haul Corn	bu	34.50						0.13	34.63		34.63
Stalk Shredder Flex	20'		1.91	2.77	2.10			0.03	6.81	5.02	11.83
TOTALS		379.28	16.25	15.35	18.63	0.00	11.17	440.68	51.71	492.39	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 16.E Estimated monthly income and expense flows per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	582.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	5.00	0.00	0.00	0.00
FERTILIZERS	48.25	0.00	0.00	0.00	0.00	0.00	35.00	52.34	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.32	0.00	34.11	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.04	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	84.56	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	8.02	0.00	0.00	0.00	0.00	3.23	0.53	1.54	0.00	0.00	0.00	5.31
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	6.96	0.00	0.00	0.00	0.00	2.53	0.32	1.20	0.00	0.00	0.00	5.24
REPAIR & MAINTENANCE	3.91	0.00	0.00	0.00	0.00	2.31	0.16	0.97	0.00	0.00	0.00	8.00
INTEREST ON OP. CAP.	4.54	0.00	0.00	0.00	0.89	2.43	1.73	1.18	0.19	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	105.34	0.00	0.00	0.00	30.71	95.06	78.85	64.23	13.23	0.00	0.00	53.26
NET INCOME	-105.34	0.00	0.00	0.00	-30.71	-95.06	-78.85	-64.23	-13.23	0.00	0.00	528.74
NET INCOME TO DATE	-105.34	-105.34	-105.34	-105.34	-136.05	-231.11	-309.96	-374.19	-387.42	-387.42	-387.42	141.32

Note: Cost of production estimates are based on 2015 input prices

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Corn			2.91	3.10	3.29	3.49	3.68	3.88	4.07	4.26	4.46	4.65	4.85
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	bu	-205 -256	-190 -242	-176 -227	-161 -213	-146 -198	-132 -184	-117 -169	-103 -154	-88 -140	-74 -125	-59 -111
60	90.00	bu	-164 -216	-147 -199	-130 -181	-112 -164	-95 -146	-77 -129	-60 -111	-42 -94	-25 -76	-7 -59	9 -42
70	105.00	bu	-124 -176	-104 -156	-84 -135	-63 -115	-43 -94	-22 -74	-2 -54	17 -33	38 -13	58 6	78 27
80	120.00	bu	-84 -136	-61 -112	-37 -89	-14 -66	8 -43	31 -19	55 3	78 26	101 49	124 73	148 96
90	135.00	bu	-44 -96	-18 -69	8 -43	34 -17	60 8	86 34	112 61	138 87	165 113	191 139	217 165
100	150.00	bu	-4 -55	24 -26	54 2	83 31	112 60	141 89	170 118	199 147	228 176	257 206	286 235
110	165.00	bu	36 -15	68 16	100 48	132 80	164 112	196 144	228 176	260 208	292 240	324 272	356 304
120	180.00	bu	76 24	111 59	146 94	180 129	215 164	250 199	285 234	320 268	355 303	390 338	425 373
130	195.00	bu	116 64	154 102	192 140	229 178	267 215	305 253	343 291	381 329	419 367	456 405	494 442
140	210.00	bu	156 104	197 145	238 186	278 227	319 267	360 308	401 349	441 390	482 430	523 471	563 512
150	225.00	bu	196 145	240 188	284 232	327 275	371 319	415 363	458 406	502 450	545 494	589 537	633 581

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 2015 input prices.

Table 17.A Estimated costs per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.0870	30.60	_____
Potash (60% K2O)	cwt	21.27	0.8300	17.65	_____
UAN + Sulfur (28%)	cwt	16.33	5.3930	88.07	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	2.0000	4.52	_____
Clarity	pt	12.89	0.5000	6.45	_____
Select Max	pt	12.35	1.0000	12.35	_____
Atrazine 4L	pt	2.03	4.0000	8.12	_____
Halex GT	pt	7.22	3.6000	25.99	_____
INSECTICIDES					
Intrepid 2F	oz	2.01	4.0000	8.04	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.02	28.0000	84.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn	bu	0.23	135.0000	31.05	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Corn Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4889	6.55	_____
Harvesters	hour	13.40	0.1277	1.71	_____
Self-Propelled	hour	13.40	0.0176	0.24	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	13.39	0.5709	7.65	_____
DIESEL FUEL					
Tractors	gal	2.00	4.2788	8.56	_____
Harvesters	gal	2.00	1.7419	3.48	_____
Self-Propelled	gal	2.00	0.1586	0.32	_____
REPAIR & MAINTENANCE					
Implements	acre	8.52	1.0000	8.52	_____
Tractors	acre	2.55	1.0000	2.55	_____
Harvesters	acre	4.19	1.0000	4.19	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
INTEREST ON OP. CAP.	acre	10.85	1.0000	10.85	_____
TOTAL DIRECT EXPENSES				432.73	_____
FIXED EXPENSES					
Implements	acre	12.67	1.0000	12.67	_____
Tractors	acre	15.96	1.0000	15.96	_____
Harvesters	acre	16.53	1.0000	16.53	_____
Self-Propelled	acre	1.08	1.0000	1.08	_____
TOTAL FIXED EXPENSES				46.24	_____
TOTAL SPECIFIED EXPENSES				478.97	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 17.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.88	135.0000	523.80	_____

TOTAL INCOME				523.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	11.50	1.0000	11.50	_____
FERTILIZERS	acre	136.32	1.0000	136.32	_____
HERBICIDES	acre	57.43	1.0000	57.43	_____
INSECTICIDES	acre	8.04	1.0000	8.04	_____
SEED/PLANTS	acre	84.56	1.0000	84.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	31.05	1.0000	31.05	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1530	1.39	_____
OPERATOR LABOR	hour	13.40	0.6343	8.50	_____
UNALLOCATED LABOR	hour	13.39	0.5709	7.65	_____
DIESEL FUEL	gal	2.00	6.1795	12.36	_____
REPAIR & MAINTENANCE	acre	15.42	1.0000	15.42	_____
INTEREST ON OP. CAP.	acre	10.85	1.0000	10.85	_____

TOTAL DIRECT EXPENSES				432.73	_____
RETURNS ABOVE DIRECT EXPENSES				91.07	_____
TOTAL FIXED EXPENSES				46.24	_____

TOTAL SPECIFIED EXPENSES				478.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				44.83	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 17.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

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	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Disk Heavy	20'	MFWD 170	0.097	1.00	Oct		0.09	0.09	0.09	0.08
Bed/Disk w/roller	8R-30/40	MFWD 170	0.093	1.00	Oct		0.09	0.09	0.09	0.08
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant - Rigid	12R-30	MFWD 170	0.062	1.00	Mar		0.06	0.06	0.12	0.05
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					1.6430				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	cwt					3.7500				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 170	0.031	1.00	Sep		0.03	0.03	0.03	0.02
Haul Corn	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.63	0.61	0.78	0.57

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 17.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Spin Spreader	5 ton		0.74	0.51	1.45			0.12	2.82	1.95	4.77
DAP	cwt	30.60						1.38	31.98		31.98
Potash (60% K2O)	cwt	17.65						0.79	18.44		18.44
Disk Heavy	20'		1.70	1.57	2.47			0.26	6.00	5.44	11.44
Bed/Disk w/roller	8R-30/40		1.64	1.16	2.39			0.23	5.42	4.83	10.25
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	pt	4.52						0.14	4.66		4.66
Clarity	pt	6.45						0.19	6.64		6.64
Select Max	pt	12.35						0.37	12.72		12.72
Plant - Rigid	12R-30		1.10	1.65	2.17			0.13	5.05	4.58	9.63
Corn Seed RR2	thous	84.56						2.22	86.78		86.78
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
UAN + Sulfur (28%)	cwt	26.83						0.60	27.43		27.43
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.53			0.02	1.03	1.08	2.11
Atrazine 4L	pt	8.12						0.18	8.30		8.30
Halex GT	pt	25.99						0.58	26.57		26.57
Fert Appl (Liquid)	12R-30		1.38	1.35	2.36			0.10	5.19	3.63	8.82
UAN + Sulfur (28%)	cwt	61.24						1.15	62.39		62.39
Corn Consultant	acre	7.00						0.13	7.13		7.13
App by Air (3 gal)	appl	5.00						0.07	5.07		5.07
Intrepid 2F	oz	8.04						0.12	8.16		8.16
Header - Corn	8R-30		3.48	6.04	3.25			0.05	12.82	19.32	32.14
Grain Cart Corn	500 bu		0.56	0.37	0.82			0.01	1.76	1.40	3.16
Haul Corn	bu	31.05						0.12	31.17		31.17
Stalk Shredder Flex	20'		1.44	2.61	2.10			0.02	6.17	4.01	10.18
TOTALS		376.56	12.36	15.42	17.54	0.00	10.85	432.73	46.24	478.97	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 17.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	523.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	5.00	0.00	0.00	0.00
FERTILIZERS	48.25	0.00	0.00	0.00	0.00	0.00	26.83	61.24	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	23.32	0.00	34.11	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.04	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	84.56	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.05
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.31	0.00	0.00	0.00	0.00	2.17	0.53	2.36	0.00	0.00	0.00	6.17
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.08	0.00	0.00	0.00	0.00	1.10	0.32	1.38	0.00	0.00	0.00	5.48
REPAIR & MAINTENANCE	3.24	0.00	0.00	0.00	0.00	1.65	0.16	1.35	0.00	0.00	0.00	9.02
INTEREST ON OP. CAP.	4.30	0.00	0.00	0.00	0.89	2.35	1.54	1.38	0.19	0.00	0.00	0.20
TOTAL DIRECT EXPENSES	99.84	0.00	0.00	0.00	30.71	91.83	70.49	74.71	13.23	0.00	0.00	51.92
NET INCOME	-99.84	0.00	0.00	0.00	-30.71	-91.83	-70.49	-74.71	-13.23	0.00	0.00	471.88
NET INCOME TO DATE	-99.84	-99.84	-99.84	-99.84	-130.55	-222.38	-292.87	-367.58	-380.81	-380.81	-380.81	91.07

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-PRODUCT PRICE-										
Corn			2.91	3.10	3.29	3.49	3.68	3.88	4.07	4.26	4.46	4.65	4.85
PERCENT	YIELD	UNIT	-dollars-										
50	67.50	bu	-220 -266	-207 -253	-194 -240	-181 -227	-168 -214	-155 -201	-142 -188	-129 -175	-115 -162	-102 -149	-89 -136
60	81.00	bu	-184 -230	-168 -215	-153 -199	-137 -183	-121 -167	-105 -152	-90 -136	-74 -120	-58 -105	-43 -89	-27 -73
70	94.50	bu	-148 -194	-130 -176	-111 -157	-93 -139	-75 -121	-56 -102	-38 -84	-20 -66	-1 -47	16 -29	34 -11
80	108.00	bu	-112 -158	-91 -137	-70 -116	-49 -95	-28 -74	-7 -53	13 -32	34 -11	55 9	76 30	97 51
90	121.50	bu	-76 -122	-52 -98	-28 -75	-5 -51	18 -28	41 -4	65 19	88 42	112 66	136 89	159 113
100	135.00	bu	-39 -86	-13 -59	12 -33	38 -7	64 18	91 44	117 71	143 97	169 123	195 149	222 175
110	148.50	bu	-3 -49	25 -21	53 7	82 36	111 65	140 94	169 122	197 151	226 180	255 209	284 238
120	162.00	bu	32 -13	63 17	95 49	126 80	158 111	189 143	221 174	252 206	283 237	315 269	346 300
130	175.50	bu	68 22	102 56	136 90	170 124	204 158	238 192	272 226	306 260	341 294	375 328	409 362
140	189.00	bu	104 58	141 95	178 131	214 168	251 205	288 241	324 278	361 315	398 351	434 388	471 425
150	202.50	bu	140 94	180 134	219 173	258 212	298 251	337 291	376 330	415 369	455 409	494 448	533 487

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 2015 input prices.

Table 18.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
FERTILIZERS					
DAP	cwt	28.15	1.3000	36.60	_____
Potash (60% K2O)	cwt	21.27	1.0000	21.27	_____
UAN + Sulfur (28%)	cwt	16.33	4.2500	69.40	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	2.0000	4.52	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Lexar	pt	7.56	6.0000	45.36	_____
INSECTICIDES					
Sivanto	oz	2.40	4.0000	9.60	_____
Karate Z	oz	2.80	1.5000	4.20	_____
Prevathon	oz	1.25	14.0000	17.50	_____
Transform WG	oz	7.74	1.0000	7.74	_____
SEED/PLANTS					
Sorghum Concept+ Po	lb	3.60	6.0000	21.60	_____
ADJUVANTS					
Surfactant	pt	5.35	0.3000	1.60	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Soybeans Consultant	acre	7.00	1.0000	7.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.3120	4.18	_____
Harvesters	hour	13.40	0.1021	1.37	_____
Self-Propelled	hour	13.40	0.0661	0.90	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0330	0.30	_____
UNALLOCATED LABOR					
	hour	13.41	0.4322	5.80	_____
DIESEL FUEL					
Tractors	gal	2.00	2.7303	5.47	_____
Harvesters	gal	2.00	1.3935	2.79	_____
Self-Propelled	gal	2.00	0.8505	1.70	_____
REPAIR & MAINTENANCE					
Implements	acre	4.90	1.0000	4.90	_____
Tractors	acre	1.62	1.0000	1.62	_____
Harvesters	acre	3.35	1.0000	3.35	_____
Self-Propelled	acre	0.75	1.0000	0.75	_____
INTEREST ON OP. CAP.	acre	7.49	1.0000	7.49	_____
TOTAL DIRECT EXPENSES				358.36	_____
FIXED EXPENSES					
Implements	acre	9.62	1.0000	9.62	_____
Tractors	acre	10.18	1.0000	10.18	_____
Harvesters	acre	13.23	1.0000	13.23	_____
Self-Propelled	acre	4.95	1.0000	4.95	_____
TOTAL FIXED EXPENSES				37.98	_____
TOTAL SPECIFIED EXPENSES				396.34	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 18.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	3.69	100.0000	369.00	_____

TOTAL INCOME				369.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
FERTILIZERS	acre	127.27	1.0000	127.27	_____
HERBICIDES	acre	54.76	1.0000	54.76	_____
INSECTICIDES	acre	39.04	1.0000	39.04	_____
SEED/PLANTS	acre	21.60	1.0000	21.60	_____
ADJUVANTS	acre	1.60	1.0000	1.60	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	7.00	1.0000	7.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1772	1.61	_____
OPERATOR LABOR	hour	13.40	0.4803	6.45	_____
UNALLOCATED LABOR	hour	13.41	0.4322	5.80	_____
DIESEL FUEL	gal	2.00	4.9745	9.96	_____
REPAIR & MAINTENANCE	acre	10.62	1.0000	10.62	_____
INTEREST ON OP. CAP.	acre	7.49	1.0000	7.49	_____

TOTAL DIRECT EXPENSES				358.36	_____
RETURNS ABOVE DIRECT EXPENSES				10.64	_____
TOTAL FIXED EXPENSES				37.98	_____

TOTAL SPECIFIED EXPENSES				396.34	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-27.34	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 18.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

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	0.3300				
Lime (Spread)	ton			0.33	Oct	0.6600				
Disk Harrow	24'	MFWD 170	0.081	1.00	Nov		0.08	0.08	0.08	0.07
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Surfactant	pt					0.3000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Apr		0.04	0.04	0.08	0.03
DAP	cwt					1.3000				
Potash (60% K2O)	cwt					1.0000				
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Folding	12R-30	MFWD 170	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Sorghum Concept+ Po	lb					6.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Apr			0.01	0.01	0.01
Lexar	pt					6.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	cwt					4.2500				
Sprayer 800gal	80' 250hp		0.013	1.00	Jun			0.01	0.01	0.01
Sivanto	oz					4.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Karate Z	oz					1.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Prevathon	oz					14.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Transform WG	oz					1.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum	bu					100.0000				
TOTALS							0.48	0.41	0.65	0.43

Note: Cost of production estimates are based on 2015 input prices.

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

Table 18.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

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						0.15	3.45		3.45
Lime (Spread)	ton	30.36						1.37	31.73		31.73
Disk Harrow	24'		1.43	1.43	2.09			0.20	5.15	4.81	9.96
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	pt	4.52						0.14	4.66		4.66
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Surfactant	pt	1.60						0.05	1.65		1.65
Spin Spreader	5 ton		0.74	0.51	1.45			0.06	2.76	1.95	4.71
DAP	cwt	36.60						0.82	37.42		37.42
Potash (60% K2O)	cwt	21.27						0.48	21.75		21.75
Field Cultivate Fld	32'		0.82	0.70	1.19			0.06	2.77	3.45	6.22
Plant - Folding	12R-30		1.10	1.81	2.17			0.11	5.19	4.88	10.07
Sorghum Concept+ Po	lb	21.60						0.49	22.09		22.09
Sprayer 800gal	80' 250hp		0.34	0.15	0.40			0.02	0.91	0.99	1.90
Lexar	pt	45.36						1.02	46.38		46.38
Soybeans Consultant	acre	7.00						0.13	7.13		7.13
Fert Appl (Liquid)	12R-30		1.38	1.35	2.36			0.10	5.19	3.63	8.82
UAN + Sulfur (28%)	cwt	69.40						1.30	70.70		70.70
Sprayer 800gal	80' 250hp		0.34	0.15	0.40			0.01	0.90	0.99	1.89
Sivanto	oz	9.60						0.14	9.74		9.74
Sprayer 800gal	80' 250hp		0.34	0.15	0.40			0.01	0.90	0.99	1.89
Karate Z	oz	4.20						0.05	4.25		4.25
Sprayer 800gal	80' 250hp		0.34	0.15	0.40			0.01	0.90	0.99	1.89
Prevathon	oz	17.50						0.20	17.70		17.70
Sprayer 800gal	80' 250hp		0.34	0.15	0.40			0.01	0.90	0.99	1.89
Transform WG	oz	7.74						0.09	7.83		7.83
Header Wheat/Sorghum	25' Rigid		2.79	4.07	2.60			0.04	9.50	14.31	23.81
Haul Sorghum	bu	25.00						0.09	25.09		25.09
TOTALS		316.43	9.96	10.62	13.86	0.00	7.49	358.36	37.98	396.34	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 18.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	57.87	69.40	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.40	0.00	45.36	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	29.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
CUSTOM LIME	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
SOIL TEST	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	2.09	0.00	0.00	0.00	0.00	5.21	2.36	0.40	1.20	0.00	2.60
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	1.43	0.00	0.00	0.00	0.00	3.00	1.38	0.34	1.02	0.00	2.79
REPAIR & MAINTENANCE	0.00	1.43	0.00	0.00	0.00	0.00	3.17	1.35	0.15	0.45	0.00	4.07
INTEREST ON OP. CAP.	1.52	0.20	0.00	0.00	0.53	0.00	3.06	1.53	0.15	0.37	0.00	0.13
TOTAL DIRECT EXPENSES	35.18	5.15	0.00	0.00	18.03	0.00	139.27	83.02	10.64	32.48	0.00	34.59
NET INCOME	-35.18	-5.15	0.00	0.00	-18.03	0.00	-139.27	-83.02	-10.64	-32.48	0.00	334.41
NET INCOME TO DATE	-35.18	-40.33	-40.33	-40.33	-58.36	-58.36	-197.63	-280.65	-291.29	-323.77	-323.77	10.64

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Grain Sorghum			2.76	2.95	3.13	3.32	3.50	3.69	3.87	4.05	4.24	4.42	4.61
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	bu	-207 -245	-198 -236	-188 -226	-179 -217	-170 -208	-161 -199	-152 -190	-142 -180	-133 -171	-124 -162	-115 -153
60	60.00	bu	-182 -220	-171 -209	-160 -198	-149 -187	-137 -175	-126 -164	-115 -153	-104 -142	-93 -131	-82 -120	-71 -109
70	70.00	bu	-157 -195	-144 -182	-131 -169	-118 -156	-105 -143	-92 -130	-79 -117	-66 -104	-53 -91	-40 -78	-27 -65
80	80.00	bu	-131 -169	-117 -155	-102 -140	-87 -125	-72 -110	-58 -96	-43 -81	-28 -66	-13 -51	0 -37	15 -22
90	90.00	bu	-106 -144	-90 -128	-73 -111	-56 -94	-40 -78	-23 -61	-7 -45	9 -28	26 -11	42 4	59 21
100	100.00	bu	-81 -119	-63 -101	-44 -82	-26 -64	-7 -45	10 -27	29 -8	47 9	65 28	84 46	102 64
110	110.00	bu	-56 -94	-36 -74	-15 -53	4 -33	24 -13	45 7	65 27	85 47	105 67	126 88	146 108
120	120.00	bu	-31 -69	-9 -47	13 -24	35 -2	57 19	79 41	101 63	123 85	145 107	167 130	190 152
130	130.00	bu	-6 -44	17 -20	41 3	65 27	89 51	113 75	137 99	161 123	185 147	209 171	233 195
140	140.00	bu	19 -18	44 6	70 32	96 58	122 84	148 110	174 136	199 161	225 187	251 213	277 239
150	150.00	bu	44 6	71 33	99 61	127 89	154 116	182 144	210 172	237 199	265 227	293 255	320 282

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 2015 input prices.

Table 19.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
FERTILIZERS					
DAP	cwt	28.15	1.0000	28.15	_____
Potash (60% K2O)	cwt	21.27	0.7500	15.95	_____
Fert 41-0-0-4	cwt	20.50	2.8000	57.40	_____
FUNGICIDES					
CruiserMaxx	oz	4.44	4.5000	19.98	_____
Prosaro	oz	2.77	8.0000	22.16	_____
HERBICIDES					
Axiom 68DF	oz	0.23	10.0000	2.30	_____
Harmony Extra SG TS	oz	29.95	0.7500	22.46	_____
Axial XL	oz	1.10	16.4000	18.04	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.38	90.0000	34.20	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	2.8000	19.60	_____
HAULING					
Haul Wheat	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6600	30.36	_____
CROP CONSULTANT					
Wheat Consultant	acre	5.00	1.0000	5.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.2648	3.55	_____
Harvesters	hour	13.40	0.1021	1.37	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR					
	hour	13.41	0.2936	3.94	_____
DIESEL FUEL					
Tractors	gal	2.00	2.3178	4.64	_____
Harvesters	gal	2.00	1.3935	2.79	_____
REPAIR & MAINTENANCE					
Implements	acre	3.84	1.0000	3.84	_____
Tractors	acre	1.37	1.0000	1.37	_____
Harvesters	acre	3.35	1.0000	3.35	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				360.77	_____
FIXED EXPENSES					
Implements	acre	8.34	1.0000	8.34	_____
Tractors	acre	8.64	1.0000	8.64	_____
Harvesters	acre	13.23	1.0000	13.23	_____
TOTAL FIXED EXPENSES				30.21	_____
TOTAL SPECIFIED EXPENSES				390.98	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	5.11	70.0000	357.70	_____

TOTAL INCOME				357.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.50	1.0000	24.50	_____
FERTILIZERS	acre	101.50	1.0000	101.50	_____
FUNGICIDES	acre	42.14	1.0000	42.14	_____
HERBICIDES	acre	42.80	1.0000	42.80	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	34.20	1.0000	34.20	_____
CUSTOM FERTILIZE	acre	19.60	1.0000	19.60	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	30.36	1.0000	30.36	_____
CROP CONSULTANT	acre	5.00	1.0000	5.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	13.40	0.3670	4.92	_____
UNALLOCATED LABOR	hour	13.41	0.2936	3.94	_____
DIESEL FUEL	gal	2.00	3.7114	7.43	_____
REPAIR & MAINTENANCE	acre	8.56	1.0000	8.56	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____

TOTAL DIRECT EXPENSES				360.77	_____
RETURNS ABOVE DIRECT EXPENSES				-3.07	_____
TOTAL FIXED EXPENSES				30.21	_____

TOTAL SPECIFIED EXPENSES				390.98	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-33.28	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

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				
Lime (Spread)	ton			0.33	Sep	0.6600				
Disk Harrow	24'	MFWD 170	0.081	1.00	Sep		0.08	0.08	0.08	0.06
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Sep		0.04	0.04	0.08	0.03
DAP	cwt					1.0000				
Potash (60% K2O)	cwt					0.7500				
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Sep		0.04	0.04	0.04	0.03
Grain Drill	20'	MFWD 170	0.094	1.00	Oct		0.09	0.09	0.18	0.07
Wheat Seed Private	lb					90.0000				
CruiserMaxx	oz					4.5000				
Wheat Consultant	acre			1.00	Oct	1.0000				
App by Air (5 gal)	appl			1.00	Nov	1.0000				
Axiom 68DF	oz					10.0000				
Harmony Extra SG TS	oz					0.7500				
App by Air (5 gal)	appl			1.00	Jan	1.0000				
Axial XL	oz					16.4000				
App by Air (3 gal)	appl			1.00	Feb	1.0000				
Karate Z	oz					1.5000				
App Fert by Air	cwt			1.00	Feb	1.4000				
Fert 41-0-0-4	cwt					1.4000				
App Fert by Air	cwt			1.00	Mar	1.4000				
Fert 41-0-0-4	cwt					1.4000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Prosaro	oz					8.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.10	0.08
Haul Wheat	bu					70.0000				
TOTALS							0.36	0.36	0.50	0.29

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

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						0.12	3.42	3.42
Lime (Spread)	ton	30.36						1.14	31.50	31.50
Disk Harrow	24'		1.43	1.43	1.98			0.18	5.02	4.81 9.83
Spin Spreader	5 ton		0.74	0.51	1.39			0.10	2.74	1.95 4.69
DAP	cwt	28.15						1.06	29.21	29.21
Potash (60% K2O)	cwt	15.95						0.60	16.55	16.55
Field Cultivate Fld	32'		0.82	0.70	1.13			0.10	2.75	3.45 6.20
Grain Drill	20'		1.65	1.85	3.12			0.22	6.84	5.69 12.53
Wheat Seed Private	lb	34.20						1.15	35.35	35.35
CruiserMaxx	oz	19.98						0.67	20.65	20.65
Wheat Consultant	acre	5.00						0.17	5.17	5.17
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Axiom 68DF	oz	2.30						0.07	2.37	2.37
Harmony Extra SG TS	oz	22.46						0.67	23.13	23.13
App by Air (5 gal)	appl	6.50						0.15	6.65	6.65
Axial XL	oz	18.04						0.41	18.45	18.45
App by Air (3 gal)	appl	5.00						0.09	5.09	5.09
Karate Z	oz	4.20						0.08	4.28	4.28
App Fert by Air	cwt	9.80						0.18	9.98	9.98
Fert 41-0-0-4	cwt	28.70						0.54	29.24	29.24
App Fert by Air	cwt	9.80						0.15	9.95	9.95
Fert 41-0-0-4	cwt	28.70						0.43	29.13	29.13
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Prosaro	oz	22.16						0.25	22.41	22.41
Header Wheat/Sorghum	25' Rigid		2.79	4.07	2.47			0.03	9.36	14.31 23.67
Haul Wheat	bu	18.20						0.07	18.27	18.27
TOTALS		325.80	7.43	8.56	10.09	0.00	8.89	360.77	30.21	390.98

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	357.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	6.50	5.00	0.00	6.50	0.00	0.00
FERTILIZERS	0.00	0.00	44.10	0.00	0.00	0.00	0.00	28.70	28.70	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	22.16	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	24.76	0.00	18.04	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80	9.80	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	4.50	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	2.99	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79
REPAIR & MAINTENANCE	0.00	0.00	2.64	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.07
INTEREST ON OP. CAP.	0.00	0.00	3.30	2.21	0.93	0.00	0.56	0.89	0.58	0.32	0.00	0.10
TOTAL DIRECT EXPENSES	0.00	0.00	91.19	68.01	32.19	0.00	25.10	48.59	39.08	28.98	0.00	27.63
NET INCOME	0.00	0.00	-91.19	-68.01	-32.19	0.00	-25.10	-48.59	-39.08	-28.98	0.00	330.07
NET INCOME TO DATE	0.00	0.00	-91.19	-159.20	-191.39	-191.39	-216.49	-265.08	-304.16	-333.14	-333.14	-3.07

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Wheat			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-217 -247	-208 -238	-199 -229	-190 -220	-181 -211	-172 -202	-163 -194	-154 -185	-145 -176	-137 -167	-128 -158
60	42.00	bu	-192 -222	-181 -211	-171 -201	-160 -190	-149 -179	-138 -169	-128 -158	-117 -147	-106 -136	-95 -126	-85 -115
70	49.00	bu	-167 -197	-154 -185	-142 -172	-129 -160	-117 -147	-104 -135	-92 -122	-79 -110	-67 -97	-54 -85	-42 -72
80	56.00	bu	-142 -172	-128 -158	-113 -144	-99 -129	-85 -115	-70 -101	-56 -86	-42 -72	-28 -58	-13 -43	0 -29
90	63.00	bu	-117 -147	-101 -131	-85 -115	-69 -99	-53 -83	-37 -67	-20 -51	-4 -35	11 -18	27 -2	43 13
100	70.00	bu	-92 -122	-74 -104	-56 -86	-38 -69	-20 -51	-3 -33	14 -15	32 2	50 20	68 38	86 56
110	77.00	bu	-67 -97	-47 -78	-28 -58	-8 -38	11 -19	30 0	50 20	70 40	89 59	109 79	129 99
120	84.00	bu	-42 -72	-21 -51	0 -29	21 -8	43 13	64 34	86 56	107 77	129 98	150 120	172 141
130	91.00	bu	-17 -47	5 -24	29 -1	52 22	75 45	98 68	122 91	145 115	168 138	191 161	215 184
140	98.00	bu	7 -22	32 2	57 27	82 52	107 77	132 102	157 127	182 152	207 177	232 202	257 227
150	105.00	bu	32 2	59 29	86 55	112 82	139 109	166 136	193 163	220 190	247 216	273 243	300 270

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 2015 input prices.

Table 20.A Estimated costs per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	5.5000	35.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Regiment 80WP	oz	43.75	0.6000	26.25	_____
Facet L	pt	14.60	2.6900	39.27	_____
Permit 75 DF	oz	20.73	0.7500	15.55	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.43	80.0000	34.40	_____
Cruiser Maxx Rice	lbseed	0.13	93.6000	12.17	_____
Rice Seed (Levees)	lb	0.43	13.6000	5.85	_____
ADJUVANTS					
SuperMax AMS	pt	2.67	0.5000	1.34	_____
MSO	pt	3.00	1.5000	4.50	_____
Dyne-A-Pak	pt	5.51	0.5000	2.76	_____
Crop Oil Conc. (Pet.)	pt	3.86	0.4000	1.54	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5475	7.35	_____
Harvesters	hour	13.40	0.2030	2.72	_____
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	13.42	0.5633	7.56	_____
DIESEL FUEL					
Tractors	gal	2.00	5.9002	11.79	_____
Harvesters	gal	2.00	3.3975	6.80	_____
Flood Irr.	gal	2.00	26.8827	53.76	_____
REPAIR & MAINTENANCE					
Implements	acre	8.24	1.0000	8.24	_____
Tractors	acre	3.52	1.0000	3.52	_____
Harvesters	acre	7.02	1.0000	7.02	_____
Flood Irr.	acre	12.69	1.0000	12.69	_____
INTEREST ON OP. CAP.	acre	11.95	1.0000	11.95	_____
TOTAL DIRECT EXPENSES				746.57	_____
FIXED EXPENSES					
Implements	acre	17.63	1.0000	17.63	_____
Tractors	acre	22.18	1.0000	22.18	_____
Harvesters	acre	27.71	1.0000	27.71	_____
Flood Irr.	acre	39.73	1.0000	39.73	_____
TOTAL FIXED EXPENSES				107.25	_____
TOTAL SPECIFIED EXPENSES				853.82	_____

Note: Cost of production estimates are based on 2015 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
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	39.50	1.0000	39.50	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	146.22	1.0000	146.22	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	52.42	1.0000	52.42	_____
ADJUVANTS	acre	10.68	1.0000	10.68	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	13.40	0.7506	10.07	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	13.42	0.5633	7.56	_____
DIESEL FUEL	gal	2.00	36.1805	72.35	_____
REPAIR & MAINTENANCE	acre	31.47	1.0000	31.47	_____
INTEREST ON OP. CAP.	acre	11.95	1.0000	11.95	_____

TOTAL DIRECT EXPENSES				746.57	_____
RETURNS ABOVE DIRECT EXPENSES				95.83	_____
TOTAL FIXED EXPENSES				107.25	_____

TOTAL SPECIFIED EXPENSES				853.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-11.42	_____

Note: Cost of production estimates are based on 2015 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
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
SuperMax AMS	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	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 80WP	oz					0.6000				
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					2.6900				
Permit 75 DF	oz					0.7500				
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								0.50	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	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							0.75	0.75	6.10	0.56

Note: Cost of production estimates are based on 2015 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
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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						0.01	3.31	3.31
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05 14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09 4.60
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92	6.92
2,4-D Amine 4	pt	4.88						0.15	5.03	5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04 14.12
Rice Seed Conv.	lb	34.40						0.77	35.17	35.17
Cruiser Maxx Rice	lbseed	10.40						0.23	10.63	10.63
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53 5.59
App by Air (5 gal)	appl	6.50						0.15	6.65	6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Command 3ME	pt	19.38						0.44	19.82	19.82
Sharpen	oz	12.14						0.27	12.41	12.41
SuperMax AMS	pt	1.34						0.03	1.37	1.37
MSO	pt	1.50						0.03	1.53	1.53
Seed Levees										
Rice Seed (Levees)	lb	5.85						0.13	5.98	5.98
Cruiser Maxx Rice	lbseed	1.77						0.04	1.81	1.81
Rice Consultant	acre	8.00						0.15	8.15	8.15
App Fert by Air	cwt	7.00						0.13	7.13	7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79	8.79
DAP	cwt	14.08						0.26	14.34	14.34
App by Air (5 gal)	appl	6.50						0.12	6.62	6.62
Regiment 80WP	oz	26.25						0.49	26.74	26.74
Dyne-A-Pak	pt	2.76						0.05	2.81	2.81
App Fert by Air	cwt	17.50						0.33	17.83	17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06	53.06
NBPT	pt	7.41						0.14	7.55	7.55
Rice Management										
RICE MGT. LABOR	hour				2.72			0.05	2.77	2.77
App by Air (5 gal)	appl	6.50						0.12	6.62	6.62
Facet L	pt	39.27						0.74	40.01	40.01
Permit 75 DF	oz	15.55						0.29	15.84	15.84
Crop Oil Conc.(Pet.)	pt	1.54						0.03	1.57	1.57
App by Air (5 gal)	appl	3.25						0.05	3.30	3.30
Clincher SF	oz	17.55						0.26	17.81	17.81
MSO	pt	3.00						0.05	3.05	3.05
Rice Management										
RICE MGT. LABOR	hour				4.53			0.07	4.60	4.60
App Fert by Air	cwt	10.50						0.16	10.66	10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71	31.71
Rice Management										
RICE MGT. LABOR	hour				4.53			0.05	4.58	4.58
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Stratego 250EC	pt	30.38						0.34	30.72	30.72
Surfactant	pt	0.54						0.01	0.55	0.55
App by Air (3 gal)	appl	3.75						0.04	3.79	3.79
Karate Z	oz	4.20						0.05	4.25	4.25
Rice Management										
RICE MGT. LABOR	hour				1.81			0.01	1.82	1.82
Header - Draper (CL)	25' Rigid		6.80	9.71	5.17			0.16	21.84	31.91 53.75
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68 1.41
Handling & Storage										
HAND LABOR	hour				2.27			0.02	2.29	2.29
Haul Rice	bu	54.60						0.41	55.01	55.01
Dry Rice	bu	62.40						0.47	62.87	62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21 21.79
Flood Irr.	acre	4.50	55.76	13.36	33.64			1.82	109.08	43.74 152.82
TOTALS		564.64	72.35	31.47	66.16	0.00	11.95	746.57	107.25	853.82

Note: Cost of production estimates are based on 2015 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
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	6.50	13.00	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	36.00	81.07	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.42	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.84	4.30	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	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	3.30
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	15.69	9.52	11.33	11.33	11.06	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	14.05	14.66	14.66	14.66	7.75	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	4.83	7.01	2.13	2.13	10.12	3.17
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.54	0.00	3.07	4.57	1.41	0.83	1.10	0.05
TOTAL DIRECT EXPENSES	8.89	0.00	0.00	0.00	18.64	0.00	139.90	248.83	95.07	74.32	147.03	13.89
NET INCOME	-8.89	0.00	0.00	0.00	-18.64	0.00	-139.90	-248.83	-95.07	-74.32	695.37	-13.89
NET INCOME TO DATE	-8.89	-8.89	-8.89	-8.89	-27.53	-27.53	-167.43	-416.26	-511.33	-585.65	109.72	95.83

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 20.F Estimated returns for various price/yield combinations, per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-371 -478	-350 -457	-329 -436	-308 -415	-287 -394	-266 -373	-245 -352	-224 -331	-203 -310	-182 -289	-161 -268
60	93.60	bu	-320 -427	-295 -402	-269 -377	-244 -351	-219 -326	-193 -301	-168 -275	-143 -250	-118 -225	-92 -200	-67 -174
70	109.20	bu	-268 -376	-239 -346	-209 -317	-180 -287	-151 -258	-121 -228	-92 -199	-62 -169	-33 -140	-3 -110	25 -81
80	124.80	bu	-217 -324	-183 -291	-150 -257	-116 -223	-82 -190	-49 -156	-15 -122	18 -88	52 -55	85 -21	119 12
90	140.40	bu	-166 -273	-128 -235	-90 -197	-52 -159	-14 -121	23 -83	61 -45	99 -8	137 29	175 67	212 105
100	156.00	bu	-114 -222	-72 -179	-30 -137	11 -95	53 -53	95 -11	137 30	180 72	222 114	264 157	306 199
110	171.60	bu	-63 -170	-17 -124	29 -77	75 -31	121 14	168 61	214 107	260 153	307 200	353 246	399 292
120	187.20	bu	-11 -119	38 -68	89 -18	139 32	190 82	240 133	291 184	341 234	392 285	442 335	493 386
130	202.80	bu	39 -67	94 -13	148 41	203 96	258 151	313 205	367 260	422 315	477 370	532 424	586 479
140	218.40	bu	90 -16	149 42	208 101	267 160	326 219	385 278	444 337	503 396	562 455	621 514	680 573
150	234.00	bu	142 34	205 98	268 161	331 224	394 287	458 350	521 414	584 477	647 540	710 603	773 666

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 2015 input prices.

Table 21.A Estimated costs per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	5.5000	35.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Regiment 80WP	oz	43.75	0.6000	26.25	_____
Facet L	pt	14.60	2.6900	39.27	_____
Permit 75 DF	oz	20.73	0.7500	15.55	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.43	80.0000	34.40	_____
Cruiser Maxx Rice	lbseed	0.13	93.6000	12.17	_____
Rice Seed (Levees)	lb	0.43	13.6000	5.85	_____
ADJUVANTS					
MSO	pt	3.00	1.5000	4.50	_____
SuperMax AMS	pt	2.67	0.5000	1.34	_____
Dyne-A-Pak	pt	5.51	0.5000	2.76	_____
Crop Oil Conc. (Pet.	pt	3.86	0.4000	1.54	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4999	6.70	_____
Harvesters	hour	13.40	0.1760	2.36	_____
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	13.41	0.5389	7.23	_____
DIESEL FUEL					
Tractors	gal	2.00	5.5050	11.01	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	21.9949	43.98	_____
REPAIR & MAINTENANCE					
Implements	acre	7.82	1.0000	7.82	_____
Tractors	acre	3.32	1.0000	3.32	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	12.71	1.0000	12.71	_____
INTEREST ON OP. CAP.	acre	11.57	1.0000	11.57	_____
TOTAL DIRECT EXPENSES				711.91	_____
FIXED EXPENSES					
Implements	acre	16.71	1.0000	16.71	_____
Tractors	acre	20.89	1.0000	20.89	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.64	1.0000	63.64	_____
TOTAL FIXED EXPENSES				125.26	_____
TOTAL SPECIFIED EXPENSES				837.17	_____

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	39.50	1.0000	39.50	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	146.22	1.0000	146.22	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	52.42	1.0000	52.42	_____
ADJUVANTS	acre	10.68	1.0000	10.68	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	13.40	0.6759	9.06	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	30.4445	60.88	_____
REPAIR & MAINTENANCE	acre	29.94	1.0000	29.94	_____
INTEREST ON OP. CAP.	acre	11.57	1.0000	11.57	_____

TOTAL DIRECT EXPENSES				711.91	_____
RETURNS ABOVE DIRECT EXPENSES				130.49	_____
TOTAL FIXED EXPENSES				125.26	_____

TOTAL SPECIFIED EXPENSES				837.17	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				5.23	_____

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
MSO	pt					0.5000				
SuperMax AMS	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	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 80WP	oz					0.6000				
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					2.6900				
Permit 75 DF	oz					0.7500				
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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	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							0.67	0.67	4.07	0.53

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45	3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05 14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09 4.60
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92	6.92
2,4-D Amine 4	pt	4.88						0.15	5.03	5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04 14.12
Rice Seed Conv.	lb	34.40						0.77	35.17	35.17
Cruiser Maxx Rice	lbseed	10.40						0.23	10.63	10.63
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53 5.59
App by Air (5 gal)	appl	6.50						0.15	6.65	6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Command 3ME	pt	19.38						0.44	19.82	19.82
Sharpen	oz	12.14						0.27	12.41	12.41
MSO	pt	1.50						0.03	1.53	1.53
SuperMax AMS	pt	1.34						0.03	1.37	1.37
Seed Levees										
Rice Seed (Levees)	lb	5.85						0.13	5.98	5.98
Cruiser Maxx Rice	lbseed	1.77						0.04	1.81	1.81
Rice Consultant	acre	8.00						0.15	8.15	8.15
App Fert by Air	cwt	7.00						0.13	7.13	7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79	8.79
DAP	cwt	14.08						0.26	14.34	14.34
App by Air (5 gal)	appl	6.50						0.12	6.62	6.62
Regiment 80WP	oz	26.25						0.49	26.74	26.74
Dyne-A-Pak	pt	2.76						0.05	2.81	2.81
App Fert by Air	cwt	17.50						0.33	17.83	17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06	53.06
NBPT	pt	7.41						0.14	7.55	7.55
Rice Management										
RICE MGT. LABOR	hour				0.91			0.02	0.93	0.93
App by Air (5 gal)	appl	6.50						0.12	6.62	6.62
Facet L	pt	39.27						0.74	40.01	40.01
Permit 75 DF	oz	15.55						0.29	15.84	15.84
Crop Oil Conc.(Pet.)	pt	1.54						0.03	1.57	1.57
App by Air (5 gal)	appl	3.25						0.05	3.30	3.30
Clincher SF	oz	17.55						0.26	17.81	17.81
MSO	pt	3.00						0.05	3.05	3.05
Rice Management										
RICE MGT. LABOR	hour				1.81			0.03	1.84	1.84
App Fert by Air	cwt	10.50						0.16	10.66	10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71	31.71
Rice Management										
RICE MGT. LABOR	hour				1.81			0.02	1.83	1.83
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Stratego 250EC	pt	30.38						0.34	30.72	30.72
Surfactant	pt	0.54						0.01	0.55	0.55
App by Air (3 gal)	appl	3.75						0.04	3.79	3.79
Karate Z	oz	4.20						0.05	4.25	4.25
Rice Management										
RICE MGT. LABOR	hour				1.81			0.01	1.82	1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66 46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68 1.41
Handling & Storage										
HAND LABOR	hour				2.27			0.02	2.29	2.29
Haul Rice	bu	54.60						0.41	55.01	55.01
Dry Rice	bu	62.40						0.47	62.87	62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21 21.79
Flood Irr.	acre	2.25	45.20	13.12	22.55			1.42	84.54	66.00 150.54
TOTALS		562.39	60.88	29.94	47.13	0.00	11.57	711.91	125.26	837.17

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	6.50	13.00	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	36.00	81.07	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.42	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.84	4.30	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	11.70	5.44	6.34	6.34	10.08	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	13.58	11.40	11.40	11.40	6.53	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	4.99	6.91	2.03	2.03	8.73	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	2.93	4.43	1.29	0.73	1.08	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	133.21	241.25	86.60	65.87	143.42	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-133.21	-241.25	-86.60	-65.87	698.98	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-164.19	-405.44	-492.04	-557.91	141.07	130.49

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-337 -462	-316 -441	-294 -420	-273 -399	-252 -378	-231 -357	-210 -335	-189 -314	-168 -293	-147 -272	-126 -251
60	93.60	bu	-285 -410	-260 -385	-235 -360	-209 -335	-184 -309	-159 -284	-134 -259	-108 -234	-83 -208	-58 -183	-32 -158
70	109.20	bu	-234 -359	-204 -330	-175 -300	-145 -271	-116 -241	-86 -212	-57 -182	-27 -153	1 -123	31 -94	60 -64
80	124.80	bu	-182 -308	-149 -274	-115 -240	-81 -207	-48 -173	-14 -139	19 -105	52 -72	86 -38	120 -4	154 28
90	140.40	bu	-131 -256	-93 -218	-55 -180	-17 -143	20 -105	58 -67	95 -29	133 8	171 46	209 84	247 122
100	156.00	bu	-80 -205	-37 -163	4 -121	46 -79	88 -36	130 5	172 47	214 89	256 131	298 173	341 215
110	171.60	bu	-28 -153	17 -107	63 -61	110 -14	156 31	202 77	249 124	295 170	341 216	388 263	434 309
120	187.20	bu	22 -102	73 -52	123 -1	174 49	224 99	275 150	325 200	376 251	427 301	477 352	528 402
130	202.80	bu	74 -51	128 3	183 58	238 113	293 167	347 222	402 277	457 332	512 386	566 441	621 496
140	218.40	bu	125 0	184 59	243 118	302 177	361 236	420 295	479 354	538 412	597 471	656 530	715 589
150	234.00	bu	176 51	240 114	303 177	366 241	429 304	492 367	555 430	619 493	682 557	745 620	808 683

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 2015 input prices.

Table 22.A Estimated costs per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	5.5000	35.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Regiment 80WP	oz	43.75	0.6000	26.25	_____
Facet L	pt	14.60	2.6900	39.27	_____
Permit 75 DF	oz	20.73	0.7500	15.55	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.43	80.0000	34.40	_____
Cruiser Maxx Rice	lbseed	0.13	93.6000	12.17	_____
Rice Seed (Levees)	lb	0.43	13.6000	5.85	_____
ADJUVANTS					
SuperMax AMS	pt	2.67	0.5000	1.34	_____
MSO	pt	3.00	1.5000	4.50	_____
Dyne-A-Pak	pt	5.51	0.5000	2.76	_____
Crop Oil Conc. (Pet.	pt	3.86	0.5000	1.93	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5281	7.08	_____
Harvesters	hour	13.40	0.1760	2.36	_____
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	13.41	0.5389	7.23	_____
DIESEL FUEL					
Tractors	gal	2.00	5.6932	11.39	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	18.7364	37.49	_____
REPAIR & MAINTENANCE					
Implements	acre	7.88	1.0000	7.88	_____
Tractors	acre	3.41	1.0000	3.41	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	12.39	1.0000	12.39	_____
INTEREST ON OP. CAP.	acre	11.49	1.0000	11.49	_____
TOTAL DIRECT EXPENSES				703.90	_____
FIXED EXPENSES					
Implements	acre	17.16	1.0000	17.16	_____
Tractors	acre	21.40	1.0000	21.40	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.36	1.0000	63.36	_____
TOTAL FIXED EXPENSES				125.94	_____
TOTAL SPECIFIED EXPENSES				829.84	_____

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	39.50	1.0000	39.50	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	146.22	1.0000	146.22	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	52.42	1.0000	52.42	_____
ADJUVANTS	acre	11.07	1.0000	11.07	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	13.40	0.7041	9.44	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	27.3742	54.77	_____
REPAIR & MAINTENANCE	acre	29.77	1.0000	29.77	_____
INTEREST ON OP. CAP.	acre	11.49	1.0000	11.49	_____

TOTAL DIRECT EXPENSES				703.90	_____
RETURNS ABOVE DIRECT EXPENSES				138.50	_____
TOTAL FIXED EXPENSES				125.94	_____

TOTAL SPECIFIED EXPENSES				829.84	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				12.56	_____

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
SuperMax AMS	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	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 80WP	oz					0.6000				
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					2.6900				
Permit 75 DF	oz					0.7500				
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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	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							0.70	0.70	2.89	0.53

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Seed Conv.	lb	34.40						0.77	35.17		35.17
Cruiser Maxx Rice	lbseed	10.40						0.23	10.63		10.63
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
SuperMax AMS	pt	1.34						0.03	1.37		1.37
MSO	pt	1.50						0.03	1.53		1.53
Seed Levees											
Rice Seed (Levees)	lb	5.85						0.13	5.98		5.98
Cruiser Maxx Rice	lbseed	1.77						0.04	1.81		1.81
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
App by Air (5 gal)	appl	6.50						0.12	6.62		6.62
Regiment 80WP	oz	26.25						0.49	26.74		26.74
Dyne-A-Pak	pt	2.76						0.05	2.81		2.81
App Fert by Air	cwt	17.50						0.33	17.83		17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06		53.06
NBPT	pt	7.41						0.14	7.55		7.55
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	6.50						0.12	6.62		6.62
Facet L	pt	39.27						0.74	40.01		40.01
Permit 75 DF	oz	15.55						0.29	15.84		15.84
Crop Oil Conc.(Pet.)	pt	1.93						0.04	1.97		1.97
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	10.50						0.16	10.66		10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71		31.71
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Stratego 250EC	pt	30.38						0.34	30.72		30.72
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66	46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.41	55.01		55.01
Dry Rice	bu	62.40						0.47	62.87		62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre	10.83	39.09	12.95	11.93			1.33	76.13	66.68	142.81
TOTALS		571.36	54.77	29.77	36.51	0.00	11.49	703.90	125.94	829.84	

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	6.50	13.00	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	36.00	81.07	17.55	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	4.20	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.42	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.84	4.69	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	9.51	2.72	3.62	3.62	9.81	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	12.25	9.78	9.78	9.78	6.61	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	5.00	6.84	1.96	1.96	8.76	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	3.04	4.36	1.23	0.68	1.07	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	138.39	237.16	82.13	61.41	143.25	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-138.39	-237.16	-82.13	-61.41	699.15	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-169.37	-406.53	-488.66	-550.07	149.08	138.50

Note: Cost of production estimates are based on 2015 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
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-329 -455	-308 -433	-286 -412	-265 -391	-244 -370	-223 -349	-202 -328	-181 -307	-160 -286	-139 -265	-118 -244
60	93.60	bu	-277 -403	-252 -378	-227 -353	-201 -327	-176 -302	-151 -277	-126 -251	-100 -226	-75 -201	-50 -176	-24 -150
70	109.20	bu	-226 -352	-196 -322	-167 -293	-137 -263	-108 -234	-78 -204	-49 -175	-19 -145	9 -116	39 -86	68 -57
80	124.80	bu	-174 -300	-141 -267	-107 -233	-73 -199	-40 -166	-6 -132	27 -98	60 -64	94 -31	128 2	162 36
90	140.40	bu	-123 -249	-85 -211	-47 -173	-9 -135	28 -97	66 -59	103 -21	141 15	179 53	217 91	255 129
100	156.00	bu	-72 -198	-29 -155	12 -113	54 -71	96 -29	138 12	180 54	222 96	264 138	306 181	349 223
110	171.60	bu	-20 -146	25 -100	71 -53	118 -7	164 38	210 85	257 131	303 177	349 224	396 270	442 316
120	187.20	bu	30 -95	81 -44	131 5	182 56	232 106	283 157	333 208	384 258	435 309	485 359	536 410
130	202.80	bu	82 -43	136 10	191 65	246 120	301 175	355 229	410 284	465 339	520 394	574 448	629 503
140	218.40	bu	133 7	192 66	251 125	310 184	369 243	428 302	487 361	546 420	605 479	664 538	723 597
150	234.00	bu	184 58	248 122	311 185	374 248	437 311	500 374	563 438	627 501	690 564	753 627	816 690

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 2015 input prices.

Table 23.A Estimated costs per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	5.5000	35.75	
App by Air (3 gal)	appl	5.00	0.7500	3.75	
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	
DAP	cwt	28.15	0.5000	14.08	
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	
NBPT	pt	9.88	0.7500	7.41	
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	
2,4-D Amine 4	pt	2.44	2.0000	4.88	
Command 3ME	pt	19.38	1.0000	19.38	
Sharpen	oz	6.07	2.0000	12.14	
Regiment 80WP	oz	43.75	0.6000	26.25	
Facet L	pt	14.60	2.6900	39.27	
Permit 75 DF	oz	20.73	0.7500	15.55	
Clincher SF	oz	2.34	7.5000	17.55	
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	
SEED/PLANTS					
Rice Seed Conv.	lb	0.43	80.0000	34.40	
Cruiser Maxx Rice	lbseed	0.13	80.0000	10.40	
ADJUVANTS					
SuperMax AMS	pt	2.67	0.5000	1.34	
MSO	pt	3.00	1.5000	4.50	
Dyne-A-Pak	pt	5.51	0.5000	2.76	
Crop Oil Conc. (Pet.)	pt	3.86	0.5000	1.93	
Surfactant	pt	5.35	0.1000	0.54	
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	
OPERATOR LABOR					
Tractors	hour	13.40	0.4228	5.67	
Harvesters	hour	13.40	0.1760	2.36	
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	13.41	0.5389	7.23	
DIESEL FUEL					
Tractors	gal	2.00	4.8970	9.79	
Harvesters	gal	2.00	2.9444	5.89	
Flood Irr.	gal	2.00	15.4779	30.97	
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	
Tractors	acre	3.01	1.0000	3.01	
Harvesters	acre	6.09	1.0000	6.09	
Flood Irr.	acre	10.39	1.0000	10.39	
INTEREST ON OP. CAP.					
	acre	10.84	1.0000	10.84	
TOTAL DIRECT EXPENSES				671.72	
FIXED EXPENSES					
Implements	acre	16.27	1.0000	16.27	
Tractors	acre	18.97	1.0000	18.97	
Harvesters	acre	24.02	1.0000	24.02	
Flood Irr.	acre	63.09	1.0000	63.09	
TOTAL FIXED EXPENSES				122.35	
TOTAL SPECIFIED EXPENSES				794.07	

Note: Cost of production estimates are based on 2015 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
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	39.50	1.0000	39.50	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	146.22	1.0000	146.22	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	44.80	1.0000	44.80	_____
ADJUVANTS	acre	11.07	1.0000	11.07	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	13.40	0.5988	8.03	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	23.3194	46.65	_____
REPAIR & MAINTENANCE	acre	27.21	1.0000	27.21	_____
INTEREST ON OP. CAP.	acre	10.84	1.0000	10.84	_____

TOTAL DIRECT EXPENSES				671.72	_____
RETURNS ABOVE DIRECT EXPENSES				170.68	_____
TOTAL FIXED EXPENSES				122.35	_____

TOTAL SPECIFIED EXPENSES				794.07	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				48.33	_____

Note: Cost of production estimates are based on 2015 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
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
SuperMax AMS	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 80WP	oz					0.6000				
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					2.6900				
Permit 75 DF	oz					0.7500				
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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000				1.05
TOTALS							0.59	0.59	2.67	0.53

Note: Cost of production estimates are based on 2015 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
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Seed Conv.	lb	34.40						0.77	35.17		35.17
Cruiser Maxx Rice	lbseed	10.40						0.23	10.63		10.63
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
SuperMax AMS	pt	1.34						0.03	1.37		1.37
MSO	pt	1.50						0.03	1.53		1.53
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
App by Air (5 gal)	appl	6.50						0.12	6.62		6.62
Regiment 80WP	oz	26.25						0.49	26.74		26.74
Dyne-A-Pak	pt	2.76						0.05	2.81		2.81
App Fert by Air	cwt	17.50						0.33	17.83		17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06		53.06
NBPT	pt	7.41						0.14	7.55		7.55
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	6.50						0.12	6.62		6.62
Facet L	pt	39.27						0.74	40.01		40.01
Permit 75 DF	oz	15.55						0.29	15.84		15.84
Crop Oil Conc. (Pet.)	pt	1.93						0.04	1.97		1.97
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	10.50						0.16	10.66		10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71		31.71
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Stratego 250EC	pt	30.38						0.34	30.72		30.72
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66	46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.41	55.01		55.01
Dry Rice	bu	62.40						0.47	62.87		62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre		30.97	10.39	9.53			0.85	51.74	63.09	114.83
TOTALS			552.91	46.65	27.21	34.11	0.00	10.84	671.72	122.35	794.07

Note: Cost of production estimates are based on 2015 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
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	6.50	13.00	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	36.00	81.07	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	44.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	2.84	4.69	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	6.70	3.18	4.08	4.08	8.84	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	9.49	8.15	8.15	8.15	6.14	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	4.12	6.33	1.45	1.45	8.61	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	2.48	4.33	1.19	0.67	1.06	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	112.93	235.45	80.41	59.72	141.65	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-112.93	-235.45	-80.41	-59.72	700.75	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-143.91	-379.36	-459.77	-519.49	181.26	170.68

Note: Cost of production estimates are based on 2015 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
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-296 -419	-275 -398	-254 -377	-233 -356	-212 -334	-191 -313	-170 -292	-149 -271	-128 -250	-107 -229	-86 -208
60	93.60	bu	-245 -367	-220 -342	-194 -317	-169 -292	-144 -266	-119 -241	-93 -216	-68 -190	-43 -165	-18 -140	7 -115
70	109.20	bu	-194 -316	-164 -286	-135 -257	-105 -227	-76 -198	-46 -169	-17 -139	12 -110	41 -80	71 -51	100 -21
80	124.80	bu	-142 -265	-109 -231	-75 -197	-41 -163	-7 -130	25 -96	59 -62	93 -29	126 4	160 38	194 71
90	140.40	bu	-91 -213	-53 -175	-15 -137	22 -99	60 -62	98 -24	136 13	174 51	211 89	249 127	287 165
100	156.00	bu	-39 -162	2 -120	44 -78	86 -35	128 6	170 48	212 90	254 132	297 174	339 216	381 258
110	171.60	bu	11 -110	57 -64	104 -18	150 28	196 74	243 120	289 167	335 213	382 259	428 306	474 352
120	187.20	bu	62 -59	113 -8	163 41	214 92	265 142	315 193	366 243	416 294	467 344	517 395	568 445
130	202.80	bu	114 -8	169 46	223 101	278 156	333 210	388 265	442 320	497 375	552 429	607 484	661 539
140	218.40	bu	165 43	224 102	283 161	342 220	401 279	460 338	519 397	578 456	637 515	696 574	755 632
150	234.00	bu	217 94	280 157	343 221	406 284	469 347	532 410	596 473	659 536	722 600	785 663	848 726

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 2015 input prices.

Table 24.A Estimated costs per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.5000	29.25	_____
App by Air (10 gal)	appl	8.75	1.0000	8.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Clearpath	lb	55.90	0.5000	27.95	_____
Newpath 2SL	oz	3.68	6.0000	22.08	_____
Aim 2EC	oz	5.46	1.5000	8.19	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Clearfield	lb	1.05	70.0000	73.50	_____
Cruiser Maxx Rice	lbseed	0.13	82.0000	10.66	_____
Rice Seed CF (Levees)	lb	1.05	12.0000	12.60	_____
ADJUVANTS					
SuperMax AMS	pt	2.67	0.5000	1.34	_____
MSO	pt	3.00	1.5000	4.50	_____
Crop Oil Conc. (Pet.	pt	3.86	4.0000	15.44	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5757	7.73	_____
Harvesters	hour	13.40	0.2030	2.72	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	13.41	0.5887	7.90	_____
DIESEL FUEL					
Tractors	gal	2.00	6.2269	12.44	_____
Harvesters	gal	2.00	3.3975	6.80	_____
Flood Irr.	gal	2.00	26.8827	53.76	_____
REPAIR & MAINTENANCE					
Implements	acre	8.48	1.0000	8.48	_____
Tractors	acre	3.72	1.0000	3.72	_____
Harvesters	acre	7.02	1.0000	7.02	_____
Flood Irr.	acre	12.69	1.0000	12.69	_____
INTEREST ON OP. CAP.	acre	13.10	1.0000	13.10	_____
TOTAL DIRECT EXPENSES				784.54	_____
FIXED EXPENSES					
Implements	acre	17.92	1.0000	17.92	_____
Tractors	acre	23.45	1.0000	23.45	_____
Harvesters	acre	27.71	1.0000	27.71	_____
Flood Irr.	acre	39.73	1.0000	39.73	_____
TOTAL FIXED EXPENSES				108.81	_____
TOTAL SPECIFIED EXPENSES				893.35	_____

Note: Cost of production estimates are based on 2015 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
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	41.75	1.0000	41.75	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	123.37	1.0000	123.37	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	96.76	1.0000	96.76	_____
ADJUVANTS	acre	21.82	1.0000	21.82	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	13.40	0.7788	10.45	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	13.41	0.5887	7.90	_____
DIESEL FUEL	gal	2.00	36.5072	73.00	_____
REPAIR & MAINTENANCE	acre	31.91	1.0000	31.91	_____
INTEREST ON OP. CAP.	acre	13.10	1.0000	13.10	_____

TOTAL DIRECT EXPENSES				784.54	_____
RETURNS ABOVE DIRECT EXPENSES				57.86	_____
TOTAL FIXED EXPENSES				108.81	_____

TOTAL SPECIFIED EXPENSES				893.35	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-50.95	_____

Note: Cost of production estimates are based on 2015 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
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 225	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
App by Air (5 gal)	appl					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.0000				
Sharpen	oz					2.0000				
SuperMax AMS	pt					0.5000				
MSO	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF (Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	lb					0.5000				
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 2SL	oz					6.0000				
Crop Oil Conc. (Pet.	pt					2.0000				
Aim 2EC	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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.77	0.77	6.14	0.58

Note: Cost of production estimates are based on 2015 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
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Clearfield	lb	73.50						1.65	75.15		75.15
Cruiser Maxx Rice	lbseed	9.10						0.20	9.30		9.30
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
SuperMax AMS	pt	1.34						0.03	1.37		1.37
MSO	pt	1.50						0.03	1.53		1.53
Seed Levees											
Rice Seed CF(Levees)	lb	12.60						0.28	12.88		12.88
Cruiser Maxx Rice	lbseed	1.56						0.04	1.60		1.60
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Clearpath	lb	27.95						0.63	28.58		28.58
Crop Oil Conc.(Pet.	pt	7.72						0.17	7.89		7.89
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	17.50						0.33	17.83		17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06		53.06
NBPT	pt	7.41						0.14	7.55		7.55
App by Air (10 gal)	appl	8.75						0.16	8.91		8.91
Newpath 2SL	oz	22.08						0.41	22.49		22.49
Crop Oil Conc.(Pet.	pt	7.72						0.14	7.86		7.86
Aim 2EC	oz	8.19						0.15	8.34		8.34
Rice Management											
RICE MGT. LABOR	hour				2.72			0.05	2.77		2.77
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				4.53			0.07	4.60		4.60
App Fert by Air	cwt	10.50						0.16	10.66		10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71		31.71
Rice Management											
RICE MGT. LABOR	hour				4.53			0.05	4.58		4.58
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Stratego 250EC	pt	30.38						0.34	30.72		30.72
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		6.80	9.71	5.17			0.16	21.84	31.91	53.75
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.41	55.01		55.01
Dry Rice	bu	62.40						0.47	62.87		62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre	4.50	55.76	13.36	33.64			1.82	109.08	43.74	152.82
TOTALS		599.52	73.00	31.91	67.01	0.00	13.10	784.54	108.81	893.35	

Note: Cost of production estimates are based on 2015 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
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	13.00	8.75	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	63.95	30.27	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	96.76	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	10.56	7.72	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	16.54	9.52	11.33	11.33	11.06	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	14.70	14.66	14.66	14.66	7.75	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	5.27	7.01	2.13	2.13	10.12	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	5.06	3.59	1.41	0.83	1.10	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	230.34	196.22	95.07	74.32	147.03	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-230.34	-196.22	-95.07	-74.32	695.37	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-261.32	-457.54	-552.61	-626.93	68.44	57.86

Note: Cost of production estimates are based on 2015 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
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2016

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-409 -518	-388 -497	-367 -476	-346 -455	-325 -434	-304 -413	-283 -392	-262 -371	-241 -350	-220 -328	-199 -307
60	93.60	bu	-358 -467	-333 -441	-307 -416	-282 -391	-257 -366	-231 -340	-206 -315	-181 -290	-156 -264	-130 -239	-105 -214
70	109.20	bu	-306 -415	-277 -386	-247 -356	-218 -327	-188 -297	-159 -268	-130 -238	-100 -209	-71 -179	-41 -150	-12 -120
80	124.80	bu	-255 -364	-221 -330	-188 -296	-154 -263	-120 -229	-87 -195	-53 -162	-19 -128	14 -94	47 -61	81 -27
90	140.40	bu	-204 -312	-166 -275	-128 -237	-90 -199	-52 -161	-14 -123	23 -85	61 -47	99 -9	137 28	174 66
100	156.00	bu	-152 -261	-110 -219	-68 -177	-26 -135	15 -93	57 -50	99 -8	142 33	184 75	226 117	268 159
110	171.60	bu	-101 -210	-55 -163	-8 -117	37 -71	83 -24	130 21	176 67	222 114	269 160	315 206	361 253
120	187.20	bu	-49 -158	0 -108	51 -57	101 -7	152 43	202 93	253 144	303 195	354 245	404 296	455 346
130	202.80	bu	1 -107	56 -52	110 2	165 56	220 111	275 166	329 221	384 275	439 330	494 385	548 440
140	218.40	bu	52 -55	111 2	170 61	229 120	288 179	347 238	406 297	465 356	524 415	583 474	642 533
150	234.00	bu	104 -4	167 58	230 121	293 184	356 248	420 311	483 374	546 437	609 500	672 564	736 627

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 2015 input prices..

Table 25.A Estimated costs per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.5000	29.25	_____
App by Air (10 gal)	appl	8.75	1.0000	8.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Clearpath	lb	55.90	0.5000	27.95	_____
Newpath 2SL	oz	3.68	6.0000	22.08	_____
Aim 2EC	oz	5.46	1.5000	8.19	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Clearfield	lb	1.05	70.0000	73.50	_____
Cruiser Maxx Rice	lbseed	0.13	82.0000	10.66	_____
Rice Seed CF(Levees)	lb	1.05	12.0000	12.60	_____
ADJUVANTS					
MSO	pt	3.00	1.5000	4.50	_____
SuperMax AMS	pt	2.67	0.5000	1.34	_____
Crop Oil Conc. (Pet.	pt	3.86	4.0000	15.44	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5281	7.08	_____
Harvesters	hour	13.40	0.1760	2.36	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	13.41	0.5643	7.57	_____
DIESEL FUEL					
Tractors	gal	2.00	5.8317	11.66	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	21.9949	43.98	_____
REPAIR & MAINTENANCE					
Implements	acre	8.06	1.0000	8.06	_____
Tractors	acre	3.52	1.0000	3.52	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	12.71	1.0000	12.71	_____
INTEREST ON OP. CAP.	acre	12.58	1.0000	12.58	_____
TOTAL DIRECT EXPENSES				749.74	_____
FIXED EXPENSES					
Implements	acre	17.00	1.0000	17.00	_____
Tractors	acre	22.16	1.0000	22.16	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.64	1.0000	63.64	_____
TOTAL FIXED EXPENSES				126.82	_____
TOTAL SPECIFIED EXPENSES				876.56	_____

Note: Cost of production estimates are based on 2015 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
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	41.75	1.0000	41.75	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	123.37	1.0000	123.37	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	96.76	1.0000	96.76	_____
ADJUVANTS	acre	21.82	1.0000	21.82	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	13.40	0.7041	9.44	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5643	7.57	_____
DIESEL FUEL	gal	2.00	30.7712	61.53	_____
REPAIR & MAINTENANCE	acre	30.38	1.0000	30.38	_____
INTEREST ON OP. CAP.	acre	12.58	1.0000	12.58	_____

TOTAL DIRECT EXPENSES				749.74	_____
RETURNS ABOVE DIRECT EXPENSES				92.66	_____
TOTAL FIXED EXPENSES				126.82	_____

TOTAL SPECIFIED EXPENSES				876.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-34.16	_____

Note: Cost of production estimates are based on 2015 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
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 225	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Apr		0.02	0.02	0.04	0.02
App by Air (5 gal)	appl					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Command 3ME	pt					1.0000				
Sharpen	oz					2.0000				
MSO	pt					0.5000				
SuperMax AMS	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF (Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	lb					0.5000				
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 2SL	oz					6.0000				
Crop Oil Conc. (Pet.	pt					2.0000				
Aim 2EC	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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2015 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
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Clearfield	lb	73.50						1.65	75.15		75.15
Cruiser Maxx Rice	lbseed	9.10						0.20	9.30		9.30
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
Spray (Broadcast)	60'		0.65	0.44	0.85			0.04	1.98	1.56	3.54
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
MSO	pt	1.50						0.03	1.53		1.53
SuperMax AMS	pt	1.34						0.03	1.37		1.37
Seed Levees											
Rice Seed CF(Levees)	lb	12.60						0.28	12.88		12.88
Cruiser Maxx Rice	lbseed	1.56						0.04	1.60		1.60
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Clearpath	lb	27.95						0.63	28.58		28.58
Crop Oil Conc.(Pet.	pt	7.72						0.17	7.89		7.89
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	17.50						0.33	17.83		17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06		53.06
NBPT	pt	7.41						0.14	7.55		7.55
App by Air (10 gal)	appl	8.75						0.16	8.91		8.91
Newpath 2SL	oz	22.08						0.41	22.49		22.49
Crop Oil Conc.(Pet.	pt	7.72						0.14	7.86		7.86
Aim 2EC	oz	8.19						0.15	8.34		8.34
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	10.50						0.16	10.66		10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71		31.71
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Stratego 250EC	pt	30.38						0.34	30.72		30.72
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66	46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.41	55.01		55.01
Dry Rice	bu	62.40						0.47	62.87		62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre	2.25	45.20	13.12	22.55			1.42	84.54	66.00	150.54
TOTALS		597.27	61.53	30.38	47.98	0.00	12.58	749.74	126.82	876.56	

Note: Cost of production estimates are based on 2015 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
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	13.00	8.75	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	63.95	30.27	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	96.76	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	10.56	7.72	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	12.55	5.44	6.34	6.34	10.08	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	14.23	11.40	11.40	11.40	6.53	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	5.43	6.91	2.03	2.03	8.73	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	4.92	3.45	1.29	0.73	1.08	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	223.65	188.64	86.60	65.87	143.42	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-223.65	-188.64	-86.60	-65.87	698.98	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-254.63	-443.27	-529.87	-595.74	103.24	92.66

Note: Cost of production estimates are based on 2015 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
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-374 -501	-353 -480	-332 -459	-311 -438	-290 -417	-269 -396	-248 -375	-227 -354	-206 -333	-185 -312	-164 -291
60	93.60	bu	-323 -450	-298 -425	-272 -399	-247 -374	-222 -349	-197 -323	-171 -298	-146 -273	-121 -248	-96 -222	-70 -197
70	109.20	bu	-272 -398	-242 -369	-213 -339	-183 -310	-154 -281	-124 -251	-95 -222	-65 -192	-36 -163	-6 -133	22 -104
80	124.80	bu	-220 -347	-187 -313	-153 -280	-119 -246	-85 -212	-52 -179	-18 -145	15 -111	48 -77	82 -44	116 -10
90	140.40	bu	-169 -296	-131 -258	-93 -220	-55 -182	-17 -144	20 -106	58 -68	96 -30	133 7	171 45	209 82
100	156.00	bu	-117 -244	-75 -202	-33 -160	8 -118	50 -76	92 -34	134 7	176 50	219 92	261 134	303 176
110	171.60	bu	-66 -193	-20 -147	26 -100	72 -54	118 -8	165 38	211 84	257 130	304 177	350 223	396 269
120	187.20	bu	-15 -141	35 -91	85 -40	136 9	187 60	237 110	288 161	338 211	389 262	439 312	490 363
130	202.80	bu	36 -90	90 -35	145 18	200 73	255 128	310 183	364 237	419 292	474 347	529 402	583 456
140	218.40	bu	87 -39	146 19	205 78	264 137	323 196	382 255	441 314	500 373	559 432	618 491	677 550
150	234.00	bu	139 12	202 75	265 138	328 201	391 264	454 328	518 391	581 454	644 517	707 580	770 644

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 2015 input prices.

Table 26.A Estimated costs per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.5000	29.25	_____
App by Air (10 gal)	appl	8.75	1.0000	8.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Clearpath	lb	55.90	0.5000	27.95	_____
Newpath 2SL	oz	3.68	6.0000	22.08	_____
Aim 2EC	oz	5.46	1.5000	8.19	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Clearfield	lb	1.05	70.0000	73.50	_____
Cruiser Maxx Rice	lbseed	0.13	82.0000	10.66	_____
Rice Seed CF (Levees)	lb	1.05	12.0000	12.60	_____
ADJUVANTS					
MSO	pt	3.00	1.5000	4.50	_____
SuperMax AMS	pt	2.67	0.5000	1.34	_____
Crop Oil Conc. (Pet.	pt	3.86	4.0000	15.44	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.5281	7.08	_____
Harvesters	hour	13.40	0.1760	2.36	_____
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	13.41	0.5389	7.23	_____
DIESEL FUEL					
Tractors	gal	2.00	5.6932	11.39	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	18.7364	37.49	_____
REPAIR & MAINTENANCE					
Implements	acre	7.88	1.0000	7.88	_____
Tractors	acre	3.41	1.0000	3.41	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	12.39	1.0000	12.39	_____
INTEREST ON OP. CAP.	acre	12.45	1.0000	12.45	_____
TOTAL DIRECT EXPENSES				739.35	_____
FIXED EXPENSES					
Implements	acre	17.16	1.0000	17.16	_____
Tractors	acre	21.40	1.0000	21.40	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.36	1.0000	63.36	_____
TOTAL FIXED EXPENSES				125.94	_____
TOTAL SPECIFIED EXPENSES				865.29	_____

Note: Cost of production estimates are based on 2015 input prices.

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

Table 26.B Summary of estimated costs and returns per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	41.75	1.0000	41.75	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	123.37	1.0000	123.37	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	96.76	1.0000	96.76	_____
ADJUVANTS	acre	21.82	1.0000	21.82	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	13.40	0.7041	9.44	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	27.3742	54.77	_____
REPAIR & MAINTENANCE	acre	29.77	1.0000	29.77	_____
INTEREST ON OP. CAP.	acre	12.45	1.0000	12.45	_____

TOTAL DIRECT EXPENSES				739.35	_____
RETURNS ABOVE DIRECT EXPENSES				103.05	_____
TOTAL FIXED EXPENSES				125.94	_____

TOTAL SPECIFIED EXPENSES				865.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-22.89	_____

Note: Cost of production estimates are based on 2015 input prices.

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

Table 26.C Estimated resource use for field operations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
MSO	pt					0.5000				
SuperMax AMS	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	lb					0.5000				
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 2SL	oz					6.0000				
Crop Oil Conc.(Pet.	pt					2.0000				
Aim 2EC	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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	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							0.70	0.70	2.89	0.53

Note: Cost of production estimates are based on 2015 input prices.

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

Table 26.D Estimated costs for field operations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45	3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09
App by Air (5 gal)	appl	6.50						0.19	6.69	6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92	6.92
2,4-D Amine 4	pt	4.88						0.15	5.03	5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04
Rice Clearfield	lb	73.50						1.65	75.15	75.15
Cruiser Maxx Rice	lbseed	9.10						0.20	9.30	9.30
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53
App by Air (5 gal)	appl	6.50						0.15	6.65	6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Command 3ME	pt	19.38						0.44	19.82	19.82
Sharpen	oz	12.14						0.27	12.41	12.41
MSO	pt	1.50						0.03	1.53	1.53
SuperMax AMS	pt	1.34						0.03	1.37	1.37
Seed Levees										
Rice Seed CF (Levees)	lb	12.60						0.28	12.88	12.88
Cruiser Maxx Rice	lbseed	1.56						0.04	1.60	1.60
App by Air (5 gal)	appl	6.50						0.15	6.65	6.65
Clearpath	lb	27.95						0.63	28.58	28.58
Crop Oil Conc. (Pet.	pt	7.72						0.17	7.89	7.89
App Fert by Air	cwt	7.00						0.13	7.13	7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79	8.79
DAP	cwt	14.08						0.26	14.34	14.34
Rice Consultant	acre	8.00						0.15	8.15	8.15
App Fert by Air	cwt	17.50						0.33	17.83	17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06	53.06
NBPT	pt	7.41						0.14	7.55	7.55
App by Air (10 gal)	appl	8.75						0.16	8.91	8.91
Newpath 2SL	oz	22.08						0.41	22.49	22.49
Crop Oil Conc. (Pet.	pt	7.72						0.14	7.86	7.86
Aim 2EC	oz	8.19						0.15	8.34	8.34
Rice Management										
RICE MGT. LABOR	hour				0.91			0.02	0.93	0.93
App by Air (5 gal)	appl	3.25						0.05	3.30	3.30
Clincher SF	oz	17.55						0.26	17.81	17.81
MSO	pt	3.00						0.05	3.05	3.05
Rice Management										
RICE MGT. LABOR	hour				1.81			0.03	1.84	1.84
App Fert by Air	cwt	10.50						0.16	10.66	10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71	31.71
Rice Management										
RICE MGT. LABOR	hour				1.81			0.02	1.83	1.83
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Stratego 250EC	pt	30.38						0.34	30.72	30.72
Surfactant	pt	0.54						0.01	0.55	0.55
App by Air (3 gal)	appl	3.75						0.04	3.79	3.79
Karate Z	oz	4.20						0.05	4.25	4.25
Rice Management										
RICE MGT. LABOR	hour				1.81			0.01	1.82	1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68
Handling & Storage										
HAND LABOR	hour				2.27			0.02	2.29	2.29
Haul Rice	bu	54.60						0.41	55.01	55.01
Dry Rice	bu	62.40						0.47	62.87	62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21
Flood Irr.	acre	10.83	39.09	12.95	11.93			1.33	76.13	66.68
TOTALS		605.85	54.77	29.77	36.51	0.00	12.45	739.35	125.94	865.29

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Table 26.E Estimated monthly income and expense flows per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	13.00	8.75	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	63.95	30.27	17.55	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	4.20	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	96.76	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	10.56	7.72	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	9.51	2.72	3.62	3.62	9.81	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	12.25	9.78	9.78	9.78	6.61	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	5.00	6.84	1.96	1.96	8.76	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	4.99	3.37	1.23	0.68	1.07	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	226.85	184.15	82.13	61.41	143.25	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-226.85	-184.15	-82.13	-61.41	699.15	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-257.83	-441.98	-524.11	-585.52	113.63	103.05

Note: Cost of production estimates are based on 2015 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 26.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2016

PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-364 -490	-343 -469	-322 -448	-301 -427	-280 -406	-259 -385	-238 -364	-217 -343	-196 -321	-174 -300	-153 -279
60	93.60	bu	-313 -439	-287 -413	-262 -388	-237 -363	-212 -337	-186 -312	-161 -287	-136 -262	-110 -236	-85 -211	-60 -186
70	109.20	bu	-261 -387	-232 -358	-202 -328	-173 -299	-143 -269	-114 -240	-84 -210	-55 -181	-25 -151	3 -122	33 -92
80	124.80	bu	-210 -336	-176 -302	-142 -268	-109 -235	-75 -201	-41 -167	-8 -134	25 -100	59 -66	92 -33	126 0
90	140.40	bu	-158 -284	-121 -246	-83 -209	-45 -171	-7 -133	30 -95	68 -57	106 -19	144 18	182 56	220 94
100	156.00	bu	-107 -233	-65 -191	-23 -149	18 -107	60 -65	103 -22	145 19	187 61	229 103	271 145	313 187
110	171.60	bu	-56 -182	-9 -135	36 -89	82 -43	129 3	175 49	221 95	268 142	314 188	360 234	407 281
120	187.20	bu	-4 -130	45 -80	96 -29	146 20	197 71	247 122	298 172	349 223	399 273	450 324	500 374
130	202.80	bu	46 -79	101 -24	156 30	210 84	265 139	320 194	375 249	429 303	484 358	539 413	594 468
140	218.40	bu	98 -27	156 31	215 90	274 148	333 207	392 266	451 325	510 384	569 443	628 502	687 561
150	234.00	bu	149 23	212 86	275 149	338 213	402 276	465 339	528 402	591 465	654 528	718 592	781 655

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 2015 input prices .

Table 27.A Estimated costs per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.5000	29.25	_____
App by Air (10 gal)	appl	8.75	1.0000	8.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	4.0000	83.32	_____
NBPT	pt	9.88	0.7500	7.41	_____
FUNGICIDES					
Stratego 250EC	pt	25.58	1.1875	30.38	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Clearpath	lb	55.90	0.5000	27.95	_____
Newpath 2SL	oz	3.68	6.0000	22.08	_____
Aim 2EC	oz	5.46	1.5000	8.19	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Clearfield	lb	1.05	70.0000	73.50	_____
Cruiser Maxx Rice	lbseed	0.13	82.0000	10.66	_____
Rice Seed CF (Levees)	lb	1.05	12.0000	12.60	_____
ADJUVANTS					
MSO	pt	3.00	1.5000	4.50	_____
SuperMax AMS	pt	2.67	0.5000	1.34	_____
Crop Oil Conc. (Pet.	pt	3.86	4.0000	15.44	_____
Surfactant	pt	5.35	0.1000	0.54	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	5.0000	35.00	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
CROP CONSULTANT					
Rice Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4228	5.67	_____
Harvesters	hour	13.40	0.1760	2.36	_____
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	13.41	0.5389	7.23	_____
DIESEL FUEL					
Tractors	gal	2.00	4.8970	9.79	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	15.4779	30.97	_____
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	_____
Tractors	acre	3.01	1.0000	3.01	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	10.39	1.0000	10.39	_____
INTEREST ON OP. CAP.	acre	11.97	1.0000	11.97	_____
TOTAL DIRECT EXPENSES				714.96	_____
FIXED EXPENSES					
Implements	acre	16.27	1.0000	16.27	_____
Tractors	acre	18.97	1.0000	18.97	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.09	1.0000	63.09	_____
TOTAL FIXED EXPENSES				122.35	_____
TOTAL SPECIFIED EXPENSES				837.31	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 27.B Summary of estimated costs and returns per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	156.0000	842.40	_____

TOTAL INCOME				842.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	41.75	1.0000	41.75	_____
FERTILIZERS	acre	113.44	1.0000	113.44	_____
FUNGICIDES	acre	30.38	1.0000	30.38	_____
HERBICIDES	acre	123.37	1.0000	123.37	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	96.76	1.0000	96.76	_____
ADJUVANTS	acre	21.82	1.0000	21.82	_____
CUSTOM FERTILIZE	acre	35.00	1.0000	35.00	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	13.40	0.5988	8.03	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	23.3194	46.65	_____
REPAIR & MAINTENANCE	acre	27.21	1.0000	27.21	_____
INTEREST ON OP. CAP.	acre	11.97	1.0000	11.97	_____

TOTAL DIRECT EXPENSES				714.96	_____
RETURNS ABOVE DIRECT EXPENSES				127.44	_____
TOTAL FIXED EXPENSES				122.35	_____

TOTAL SPECIFIED EXPENSES				837.31	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				5.09	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.

Table 27.C Estimated resource use for field operations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
MSO	pt					0.5000				
SuperMax AMS	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	lb					0.5000				
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 2SL	oz					6.0000				
Crop Oil Conc.(Pet.	pt					2.0000				
Aim 2EC	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	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego 250EC	pt					1.1875				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 225	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.59	0.59	2.67	0.53

Note: Cost of production estimates are based on 2015 input prices.

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

Table 27.D Estimated costs for field operations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Clearfield	lb	73.50						1.65	75.15		75.15
Cruiser Maxx Rice	lbseed	9.10						0.20	9.30		9.30
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
MSO	pt	1.50						0.03	1.53		1.53
SuperMax AMS	pt	1.34						0.03	1.37		1.37
Seed Levees											
Rice Seed CF (Levees)	lb	12.60						0.28	12.88		12.88
Cruiser Maxx Rice	lbseed	1.56						0.04	1.60		1.60
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Clearpath	lb	27.95						0.63	28.58		28.58
Crop Oil Conc. (Pet.	pt	7.72						0.17	7.89		7.89
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	17.50						0.33	17.83		17.83
Urea, Solid (46% N)	cwt	52.08						0.98	53.06		53.06
NBPT	pt	7.41						0.14	7.55		7.55
App by Air (10 gal)	appl	8.75						0.16	8.91		8.91
Newpath 2SL	oz	22.08						0.41	22.49		22.49
Crop Oil Conc. (Pet.	pt	7.72						0.14	7.86		7.86
Aim 2EC	oz	8.19						0.15	8.34		8.34
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	10.50						0.16	10.66		10.66
Urea, Solid (46% N)	cwt	31.24						0.47	31.71		31.71
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Stratego 250EC	pt	30.38						0.34	30.72		30.72
Surfactant	pt	0.54						0.01	0.55		0.55
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66	46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.41	55.01		55.01
Dry Rice	bu	62.40						0.47	62.87		62.87
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre		30.97	10.39	9.53			0.85	51.74	63.09	114.83
TOTALS		595.02	46.65	27.21	34.11	0.00	11.97	714.96	122.35	837.31	

Note: Cost of production estimates are based on 2015 input prices.

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

Table 27.E Estimated monthly income and expense flows per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

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	842.40	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	13.00	8.75	3.25	10.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.20	31.24	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.38	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	63.95	30.27	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	96.76	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	10.56	7.72	3.00	0.54	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.50	10.50	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	6.70	3.18	4.08	4.08	8.84	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	9.49	8.15	8.15	8.15	6.14	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	4.12	6.33	1.45	1.45	8.61	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	4.60	3.34	1.19	0.67	1.06	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	209.18	182.44	80.41	59.72	141.65	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-209.18	-182.44	-80.41	-59.72	700.75	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-240.16	-422.60	-503.01	-562.73	138.02	127.44

Note: Cost of production estimates are based on 2015 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 27.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2016

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			PRODUCT PRICE										
			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-340 -462	-319 -441	-298 -420	-276 -399	-255 -378	-234 -357	-213 -336	-192 -315	-171 -293	-150 -272	-129 -251
60	93.60	bu	-288 -411	-263 -385	-238 -360	-212 -335	-187 -309	-162 -284	-137 -259	-111 -234	-86 -208	-61 -183	-36 -158
70	109.20	bu	-237 -359	-207 -330	-178 -300	-148 -271	-119 -241	-89 -212	-60 -182	-30 -153	-1 -123	28 -94	57 -64
80	124.80	bu	-185 -308	-152 -274	-118 -240	-84 -207	-51 -173	-17 -139	16 -106	49 -72	83 -38	117 -5	151 28
90	140.40	bu	-134 -256	-96 -218	-58 -181	-20 -143	17 -105	54 -67	92 -29	130 8	168 46	206 84	244 122
100	156.00	bu	-83 -205	-41 -163	1 -121	43 -79	85 -37	127 5	169 47	211 89	253 131	295 173	338 215
110	171.60	bu	-31 -154	14 -107	60 -61	107 -15	153 31	199 77	246 123	292 170	338 216	385 262	431 309
120	187.20	bu	19 -102	70 -52	120 -1	171 48	221 99	272 149	322 200	373 251	423 301	474 352	525 402
130	202.80	bu	71 -51	125 3	180 58	235 112	290 167	344 222	399 277	454 331	509 386	563 441	618 496
140	218.40	bu	122 0	181 59	240 117	299 176	358 235	417 294	476 353	535 412	594 471	653 530	712 589
150	234.00	bu	173 51	236 114	300 177	363 240	426 304	489 367	552 430	616 493	679 556	742 620	805 683

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 2015 input prices.

Table 28.A Estimated costs per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.5000	22.75	_____
App by Air (10 gal)	appl	8.75	1.0000	8.75	_____
App by Air (3 gal)	appl	5.00	0.7500	3.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	0.5000	8.63	_____
DAP	cwt	28.15	0.5000	14.08	_____
Urea, Solid (46% N)	cwt	20.83	3.6700	76.45	_____
NBPT	pt	9.88	0.8000	7.90	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	80.0000	11.20	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Command 3ME	pt	19.38	1.0000	19.38	_____
Sharpen	oz	6.07	2.0000	12.14	_____
Clearpath	lb	55.90	0.5000	27.95	_____
Newpath 2SL	oz	3.68	6.0000	22.08	_____
Aim 2EC	oz	5.46	1.5000	8.19	_____
Clincher SF	oz	2.34	7.5000	17.55	_____
INSECTICIDES					
Karate Z	oz	2.80	1.5000	4.20	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	5.82	25.0000	145.50	_____
Cruiser Maxx Rice	lbseed	0.13	29.2500	3.80	_____
Rice Seed CFH (Levee)	lb	5.82	4.2500	24.74	_____
ADJUVANTS					
MSO	pt	3.00	1.5000	4.50	_____
SuperMax AMS	pt	2.67	0.5000	1.34	_____
Crop Oil Conc. (Pet.	pt	3.86	4.0000	15.44	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	4.6700	32.69	_____
HAULING					
Haul Rice	bu	0.35	170.0000	59.50	_____
DRYING					
Dry Rice	bu	0.40	170.0000	68.00	_____
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	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	13.40	0.4999	6.70	_____
Harvesters	hour	13.40	0.1760	2.36	_____
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	13.41	0.5389	7.23	_____
DIESEL FUEL					
Tractors	gal	2.00	5.5050	11.01	_____
Harvesters	gal	2.00	2.9444	5.89	_____
Flood Irr.	gal	2.00	21.9949	43.98	_____
REPAIR & MAINTENANCE					
Implements	acre	7.82	1.0000	7.82	_____
Tractors	acre	3.32	1.0000	3.32	_____
Harvesters	acre	6.09	1.0000	6.09	_____
Flood Irr.	acre	12.71	1.0000	12.71	_____
INTEREST ON OP. CAP.	acre	13.82	1.0000	13.82	_____
TOTAL DIRECT EXPENSES				790.71	_____
FIXED EXPENSES					
Implements	acre	16.71	1.0000	16.71	_____
Tractors	acre	20.89	1.0000	20.89	_____
Harvesters	acre	24.02	1.0000	24.02	_____
Flood Irr.	acre	63.64	1.0000	63.64	_____
TOTAL FIXED EXPENSES				125.26	_____
TOTAL SPECIFIED EXPENSES				915.97	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Table 28.B Summary of estimated costs and returns per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.40	170.0000	918.00	_____

TOTAL INCOME				918.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	35.25	1.0000	35.25	_____
FERTILIZERS	acre	107.06	1.0000	107.06	_____
HERBICIDES	acre	123.37	1.0000	123.37	_____
INSECTICIDES	acre	4.20	1.0000	4.20	_____
SEED/PLANTS	acre	174.04	1.0000	174.04	_____
ADJUVANTS	acre	21.28	1.0000	21.28	_____
CUSTOM FERTILIZE	acre	32.69	1.0000	32.69	_____
HAULING	acre	59.50	1.0000	59.50	_____
DRYING	acre	68.00	1.0000	68.00	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.30	1.0000	3.30	_____
HAND LABOR	hour	9.06	0.3285	2.98	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	13.40	0.6759	9.06	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	13.41	0.5389	7.23	_____
DIESEL FUEL	gal	2.00	30.4445	60.88	_____
REPAIR & MAINTENANCE	acre	29.94	1.0000	29.94	_____
INTEREST ON OP. CAP.	acre	13.82	1.0000	13.82	_____

TOTAL DIRECT EXPENSES				790.71	_____
RETURNS ABOVE DIRECT EXPENSES				127.29	_____
TOTAL FIXED EXPENSES				125.26	_____

TOTAL SPECIFIED EXPENSES				915.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				2.03	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Table 28.C Estimated resource use for field operations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	0.3300				
Field Cultivate Fld	32'	MFWD 225	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 225	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 225	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield Hyb	lb					25.0000				
Cruiser Maxx Rice	lbseed					25.0000				
Roller/Cultipacker	30'	MFWD 225	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					1.0000				
Sharpen	oz					2.0000				
MSO	pt					0.5000				
SuperMax AMS	pt					0.5000				
Seed Levees				1.00	Apr					
Rice Seed CFH (Levee)	lb					4.2500				
Cruiser Maxx Rice	lbseed					4.2500				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Clearpath	lb					0.5000				
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				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.	pt					2.0000				
Aim 2EC	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	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			0.75	Jul	0.7500				
Karate Z	oz					1.5000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 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	170.0000				
Dry Rice	bu			1.00	Aug	170.0000				
Disk Heavy	28'	MFWD 225	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							0.67	0.67	4.07	0.53

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Table 28.D Estimated costs for field operations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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						0.15	3.45		3.45
Field Cultivate Fld	32'		2.16	1.57	2.38			0.27	6.38	8.05	14.43
Harrow - Folding	40'		0.90	0.51	0.99			0.11	2.51	2.09	4.60
App by Air (5 gal)	appl	6.50						0.19	6.69		6.69
Glyphosate 3lbs a.e	oz	6.72						0.20	6.92		6.92
2,4-D Amine 4	pt	4.88						0.15	5.03		5.03
Grain Drill	24'		1.82	2.39	2.71			0.16	7.08	7.04	14.12
Rice Clearfield Hyb	lb	145.50						3.27	148.77		148.77
Cruiser Maxx Rice	lbseed	3.25						0.07	3.32		3.32
Roller/Cultipacker	30'		1.15	0.57	1.27			0.07	3.06	2.53	5.59
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Command 3ME	pt	19.38						0.44	19.82		19.82
Sharpen	oz	12.14						0.27	12.41		12.41
MSO	pt	1.50						0.03	1.53		1.53
SuperMax AMS	pt	1.34						0.03	1.37		1.37
Seed Levees											
Rice Seed CFH (Levee)	lb	24.74						0.56	25.30		25.30
Cruiser Maxx Rice	lbseed	0.55						0.01	0.56		0.56
App by Air (5 gal)	appl	6.50						0.15	6.65		6.65
Clearpath	lb	27.95						0.63	28.58		28.58
Crop Oil Conc. (Pet.)	pt	7.72						0.17	7.89		7.89
App Fert by Air	cwt	7.00						0.13	7.13		7.13
Amm Sulfate (21% N)	cwt	8.63						0.16	8.79		8.79
DAP	cwt	14.08						0.26	14.34		14.34
Rice Consultant	acre	8.00						0.15	8.15		8.15
App Fert by Air	cwt	18.69						0.35	19.04		19.04
Urea, Solid (46% N)	cwt	55.62						1.04	56.66		56.66
NBPT	pt	7.90						0.15	8.05		8.05
App by Air (10 gal)	appl	8.75						0.16	8.91		8.91
Newpath 2SL	oz	22.08						0.41	22.49		22.49
Crop Oil Conc. (Pet.)	pt	7.72						0.14	7.86		7.86
Aim 2EC	oz	8.19						0.15	8.34		8.34
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	3.25						0.05	3.30		3.30
Clincher SF	oz	17.55						0.26	17.81		17.81
MSO	pt	3.00						0.05	3.05		3.05
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	7.00						0.11	7.11		7.11
Urea, Solid (46% N)	cwt	20.83						0.31	21.14		21.14
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (3 gal)	appl	3.75						0.04	3.79		3.79
Karate Z	oz	4.20						0.05	4.25		4.25
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		5.89	8.42	4.48			0.14	18.93	27.66	46.59
Grain Cart Rice	700 bu		0.25	0.19	0.28			0.01	0.73	0.68	1.41
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	59.50						0.45	59.95		59.95
Dry Rice	bu	68.00						0.51	68.51		68.51
Disk Heavy	28'		3.51	3.17	3.86			0.04	10.58	11.21	21.79
Flood Irr.	acre	2.25	45.20	13.12	22.55			1.42	84.54	66.00	150.54
TOTALS		638.94	60.88	29.94	47.13	0.00	13.82	790.71	125.26	915.97	

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Table 28.E Estimated monthly income and expense flows per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

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	918.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	13.00	8.75	3.25	3.75	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.23	20.83	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	11.60	0.00	63.95	30.27	17.55	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	4.20	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	174.04	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	10.56	7.72	3.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.69	7.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.00	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	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.37	0.00	0.00	0.00	0.00	0.00	11.70	5.44	6.34	6.34	10.08	3.86
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.06	0.00	0.00	0.00	0.00	0.00	13.58	11.40	11.40	11.40	6.53	3.51
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	4.99	6.91	2.03	2.03	8.73	3.17
INTEREST ON OP. CAP.	0.53	0.00	0.00	0.00	0.54	0.00	6.62	3.54	1.08	0.31	1.16	0.04
TOTAL DIRECT EXPENSES	12.34	0.00	0.00	0.00	18.64	0.00	300.69	193.95	72.48	28.03	154.00	10.58
NET INCOME	-12.34	0.00	0.00	0.00	-18.64	0.00	-300.69	-193.95	-72.48	-28.03	764.00	-10.58
NET INCOME TO DATE	-12.34	-12.34	-12.34	-12.34	-30.98	-30.98	-331.67	-525.62	-598.10	-626.13	137.87	127.29

Note: Cost of production estimates are based on 2015 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 28.F Estimated returns for various price/yield combinations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.05	4.32	4.59	4.86	5.13	5.40	5.67	5.94	6.21	6.48	6.75
			dollars										
PERCENT	YIELD	UNIT											
50	85.00	bu	-382 -507	-359 -484	-336 -461	-313 -438	-290 -415	-267 -392	-244 -369	-221 -346	-198 -323	-175 -300	-152 -277
60	102.00	bu	-326 -451	-298 -423	-271 -396	-243 -368	-216 -341	-188 -313	-160 -286	-133 -258	-105 -231	-78 -203	-50 -176
70	119.00	bu	-270 -395	-238 -363	-205 -331	-173 -299	-141 -266	-109 -234	-77 -202	-45 -170	-13 -138	18 -106	51 -74
80	136.00	bu	-214 -339	-177 -302	-140 -266	-104 -229	-67 -192	-30 -155	6 -119	42 -82	79 -45	116 -8	152 27
90	153.00	bu	-158 -283	-116 -242	-75 -200	-34 -159	7 -118	48 -76	89 -35	130 5	172 47	213 88	254 129
100	170.00	bu	-102 -227	-56 -181	-10 -135	35 -89	81 -43	127 2	173 47	219 93	264 139	310 185	356 231
110	187.00	bu	-46 -171	4 -120	54 -70	105 -19	155 30	206 80	256 131	307 181	357 232	408 282	458 333
120	204.00	bu	9 -115	64 -60	119 -5	175 49	230 104	285 159	340 215	395 270	450 325	505 380	560 435
130	221.00	bu	65 -59	125 0	185 59	244 119	304 179	364 238	423 298	483 358	543 417	602 477	662 537
140	238.00	bu	121 -3	186 60	250 125	314 189	378 253	443 317	507 382	571 446	635 510	700 574	764 639
150	255.00	bu	177 52	246 121	315 190	384 259	453 327	522 396	590 465	659 534	728 603	797 672	866 741

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 2015 input prices.

Table 29.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.4300	10.75	_____
Potash (60% K2O)	cwt	21.27	0.5200	11.06	_____
FUNGICIDES					
Bravo Weather Stick	pt	5.27	7.0000	36.89	_____
Abound	pt	32.53	2.2500	73.19	_____
Tebuconazole	oz	0.67	9.0000	6.03	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	4.0000	9.04	_____
Dual II Magnum	pt	13.99	1.0000	13.99	_____
Valor SX	oz	7.10	3.0000	21.30	_____
Storm	pt	11.88	3.0000	35.64	_____
Cadre	oz	4.21	4.0000	16.84	_____
Butyrac 200 (2,4-DB)	pt	4.05	2.0000	8.10	_____
Select Max	pt	12.35	1.0000	12.35	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Acephate 90%	lb	7.45	0.1375	1.02	_____
Belt	oz	6.70	1.0000	6.70	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.44	6.0000	26.64	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.51	14.8000	7.55	_____
OPERATOR LABOR					
Tractors	hour	13.40	1.6246	21.77	_____
Self-Propelled	hour	13.40	0.2247	3.06	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1123	1.02	_____
UNALLOCATED LABOR					
	hour	13.40	1.4795	19.83	_____
DIESEL FUEL					
Tractors	gal	2.00	17.5722	35.14	_____
Self-Propelled	gal	2.00	2.0230	4.08	_____
REPAIR & MAINTENANCE					
Implements	acre	10.91	1.0000	10.91	_____
Tractors	acre	10.54	1.0000	10.54	_____
Self-Propelled	acre	2.04	1.0000	2.04	_____
INTEREST ON OP. CAP.	acre	7.89	1.0000	7.89	_____
TOTAL DIRECT EXPENSES				639.01	_____
FIXED EXPENSES					
Implements	acre	36.56	1.0000	36.56	_____
Tractors	acre	66.38	1.0000	66.38	_____
Self-Propelled	acre	13.77	1.0000	13.77	_____
TOTAL FIXED EXPENSES				116.71	_____
TOTAL SPECIFIED EXPENSES				755.72	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 29.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	375.00	1.8000	675.00	_____

TOTAL INCOME				675.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	21.81	1.0000	21.81	_____
FUNGICIDES	acre	116.10	1.0000	116.10	_____
HERBICIDES	acre	117.26	1.0000	117.26	_____
INSECTICIDES	acre	22.72	1.0000	22.72	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	26.64	1.0000	26.64	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	46.00	1.0000	46.00	_____
INOCULANT	acre	7.55	1.0000	7.55	_____
HAND LABOR	hour	9.06	0.2331	2.11	_____
OPERATOR LABOR	hour	13.40	1.8494	24.83	_____
UNALLOCATED LABOR	hour	13.40	1.4795	19.83	_____
DIESEL FUEL	gal	2.00	19.5953	39.22	_____
REPAIR & MAINTENANCE	acre	23.49	1.0000	23.49	_____
INTEREST ON OP. CAP.	acre	7.89	1.0000	7.89	_____

TOTAL DIRECT EXPENSES				639.01	_____
RETURNS ABOVE DIRECT EXPENSES				35.99	_____
TOTAL FIXED EXPENSES				116.71	_____

TOTAL SPECIFIED EXPENSES				755.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-80.72	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 29.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Fold.	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Plt&Pre Rigid	8R-38	MFWD 190	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Belt	oz					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	4R-38	MFWD 190	0.186	1.00	Sep		0.18	0.18	0.18	0.14
Peanut Harvester	4R-38	MFWD 225	0.934	1.00	Sep		0.93	0.93	0.93	0.74
Dry Peanuts	ton					1.0800				
Cleaning Peanuts	ton					1.5300				
Haul Peanuts	ton					1.8000				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.84	1.62	2.08	1.47

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 29.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.02	1.01	1.08	2.09
Glyphosate 3lbs a.e	pt	9.04					0.20	9.24		9.24
Lime (Spread)	ton	46.00					1.03	47.03		47.03
Custom Apply Fert	acre	7.00					0.16	7.16		7.16
Phosphorus(46% P2O5)	cwt	10.75					0.24	10.99		10.99
Potash (60% K2O)	cwt	11.06					0.25	11.31		11.31
Bed-Rip/Disk Fold.	8R-38		1.43	0.54	1.76		0.07	3.80	3.23	7.03
Peanut Plt&Pre Rigid	8R-38		2.36	2.39	4.00		0.16	8.91	7.55	16.46
Peanut Seed	lb	77.00					1.44	78.44		78.44
Optimize LIFT	oz	7.55					0.14	7.69		7.69
Phorate	lb	15.00					0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.02	1.01	1.08	2.09
Dual II Magnum	pt	13.99					0.26	14.25		14.25
Valor SX	oz	21.30					0.40	21.70		21.70
Sprayer 600-750gal	60' 175hp		0.08	0.04	0.13			0.25	0.27	0.52
Acephate 90%	lb	1.02					0.02	1.04		1.04
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90					0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Storm	pt	17.82					0.27	18.09		18.09
Cadre	oz	16.84					0.25	17.09		17.09
Butyrac 200 (2,4-DB)	pt	4.05					0.06	4.11		4.11
Crop Oil Conc.(Veg.)	pt	8.88					0.13	9.01		9.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90					0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Abound	pt	36.60					0.41	37.01		37.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Storm	pt	17.82					0.20	18.02		18.02
Butyrac 200 (2,4-DB)	pt	4.05					0.05	4.10		4.10
Crop Oil Conc.(Veg.)	pt	8.88					0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Select Max	pt	12.35					0.14	12.49		12.49
Crop Oil Conc.(Veg.)	pt	8.88					0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	5.27					0.06	5.33		5.33
Tebuconazole	oz	6.03					0.07	6.10		6.10
Sprayer 600-750gal	60' 175hp		0.16	0.08	0.25			0.49	0.54	1.03
Belt	oz	6.70					0.05	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Abound	pt	36.60					0.27	36.87		36.87
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51		0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90					0.06	7.96		7.96
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.99	1.08	2.07
Bravo Weather Stick	pt	7.90					0.03	7.93		7.93
Peanut Dig/Invertor	4R-38		3.64	2.39	4.50		0.04	10.57	8.20	18.77
Peanut Harvester	4R-38		21.65	13.54	22.54		0.22	57.95	69.53	127.48
Dry Peanuts	ton	25.92					0.10	26.02		26.02
Cleaning Peanuts	ton	27.54					0.10	27.64		27.64
Haul Peanuts	ton	26.10					0.10	26.20		26.20
Peanut Dump Cart	6-Row		6.06	2.59	7.47		0.06	16.18	14.43	30.61
TOTALS		521.64	39.22	23.49	46.77	0.00	7.89	639.01	116.71	755.72

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 29.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	21.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80	47.90	44.50	7.90
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.04	35.29	38.71	34.22	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.02	0.00	0.00	6.70	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	17.76	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.51	6.40	1.53	2.04	1.27	35.02
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.32	4.19	0.96	1.28	0.80	31.67
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.13	0.48	0.64	0.40	18.68
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.90	2.79	0.98	1.17	0.40	0.65
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.74	152.37	67.34	105.01	54.07	173.48
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-152.37	-67.34	-105.01	-54.07	501.52
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-239.11	-306.45	-411.46	-465.53	35.99

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 29.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2016

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			281.25	300.00	318.75	337.50	356.25	375.00	393.75	412.50	431.25	450.00	468.75
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-345	-329	-312	-295	-278	-261	-244	-227	-210	-194	-177
			-462	-445	-428	-412	-395	-378	-361	-344	-327	-310	-293
60	1.08	ton	-303	-283	-262	-242	-222	-202	-181	-161	-141	-121	-100
			-420	-399	-379	-359	-339	-318	-298	-278	-258	-237	-217
70	1.26	ton	-260	-237	-213	-189	-166	-142	-118	-95	-71	-48	-24
			-377	-353	-330	-306	-282	-259	-235	-212	-188	-164	-141
80	1.44	ton	-218	-191	-164	-137	-110	-83	-56	-29	-2	24	51
			-334	-307	-280	-253	-226	-199	-172	-145	-118	-91	-64
90	1.62	ton	-175	-145	-114	-84	-53	-23	6	37	67	97	128
			-292	-261	-231	-200	-170	-140	-109	-79	-49	-18	11
100	1.80	ton	-132	-99	-65	-31	2	35	69	103	137	170	204
			-249	-215	-181	-148	-114	-80	-46	-13	20	54	88
110	1.98	ton	-90	-52	-15	21	58	95	132	169	206	244	281
			-206	-169	-132	-95	-58	-21	15	53	90	127	164
120	2.16	ton	-47	-6	33	74	114	155	195	236	276	317	357
			-164	-123	-83	-42	-2	38	78	119	159	200	240
130	2.34	ton	-4	39	82	126	170	214	258	302	346	390	433
			-121	-77	-33	10	53	97	141	185	229	273	317
140	2.52	ton	37	85	132	179	226	274	321	368	415	463	510
			-78	-31	15	62	110	157	204	251	299	346	393
150	2.70	ton	80	131	181	232	282	333	384	434	485	536	586
			-36	14	64	115	166	216	267	318	368	419	469

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 2015 input prices.

Table 30.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.4300	10.75	_____
Potash (60% K2O)	cwt	21.27	0.5200	11.06	_____
FUNGICIDES					
Bravo Weather Stick	pt	5.27	7.0000	36.89	_____
Abound	pt	32.53	2.2500	73.19	_____
Tebuconazole	oz	0.67	9.0000	6.03	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	4.0000	9.04	_____
Dual II Magnum	pt	13.99	1.0000	13.99	_____
Valor SX	oz	7.10	3.0000	21.30	_____
Storm	pt	11.88	3.0000	35.64	_____
Cadre	oz	4.21	4.0000	16.84	_____
Butyrac 200 (2,4-DB)	pt	4.05	2.0000	8.10	_____
Select Max	pt	12.35	1.0000	12.35	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Acephate 90%	lb	7.45	0.1375	1.02	_____
Belt	oz	6.70	1.0000	6.70	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.44	6.0000	26.64	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.51	14.8000	7.55	_____
OPERATOR LABOR					
Tractors	hour	13.40	1.6876	22.61	_____
Self-Propelled	hour	13.40	0.2247	3.06	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1123	1.02	_____
UNALLOCATED LABOR	hour	13.40	1.5299	20.51	_____
DIESEL FUEL					
Tractors	gal	2.00	18.0359	36.07	_____
Self-Propelled	gal	2.00	2.0230	4.08	_____
REPAIR & MAINTENANCE					
Implements	acre	11.32	1.0000	11.32	_____
Tractors	acre	10.77	1.0000	10.77	_____
Self-Propelled	acre	2.04	1.0000	2.04	_____
INTEREST ON OP. CAP.	acre	7.99	1.0000	7.99	_____
TOTAL DIRECT EXPENSES				642.49	_____
FIXED EXPENSES					
Implements	acre	34.88	1.0000	34.88	_____
Tractors	acre	67.80	1.0000	67.80	_____
Self-Propelled	acre	13.77	1.0000	13.77	_____
TOTAL FIXED EXPENSES				116.45	_____
TOTAL SPECIFIED EXPENSES				758.94	_____

Note: Cost of production estimates are based on 2015 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 30.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	375.00	1.8000	675.00	_____

TOTAL INCOME				675.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	21.81	1.0000	21.81	_____
FUNGICIDES	acre	116.10	1.0000	116.10	_____
HERBICIDES	acre	117.26	1.0000	117.26	_____
INSECTICIDES	acre	22.72	1.0000	22.72	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	26.64	1.0000	26.64	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	46.00	1.0000	46.00	_____
INOCULANT	acre	7.55	1.0000	7.55	_____
HAND LABOR	hour	9.06	0.2651	2.40	_____
OPERATOR LABOR	hour	13.40	1.9124	25.67	_____
UNALLOCATED LABOR	hour	13.40	1.5299	20.51	_____
DIESEL FUEL	gal	2.00	20.0589	40.15	_____
REPAIR & MAINTENANCE	acre	24.13	1.0000	24.13	_____
INTEREST ON OP. CAP.	acre	7.99	1.0000	7.99	_____

TOTAL DIRECT EXPENSES				642.49	_____
RETURNS ABOVE DIRECT EXPENSES				32.51	_____
TOTAL FIXED EXPENSES				116.45	_____

TOTAL SPECIFIED EXPENSES				758.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-83.94	_____

Note: Cost of production estimates are based on 2015 input prices

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 30.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Rigid	8R-30	MFWD 190	0.139	1.00	May		0.13	0.13	0.13	0.11
Peanut Plt&Pre Rigid	8R-30	MFWD 190	0.152	1.00	May		0.15	0.15	0.30	0.12
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Belt	oz					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	4R-30	MFWD 190	0.235	1.00	Sep		0.23	0.23	0.23	0.18
Peanut Harvester	4R-30	MFWD 225	0.849	1.00	Sep		0.85	0.85	0.85	0.68
Dry Peanuts	ton					1.0800				
Cleaning Peanuts	ton					1.5300				
Haul Peanuts	ton					1.8000				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.91	1.68	2.17	1.52

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 30.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Glyphosate 3lbs a.e	pt	9.04						0.20	9.24		9.24
Lime (Spread)	ton	46.00						1.03	47.03		47.03
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
Phosphorus(46% P2O5)	cwt	10.75						0.24	10.99		10.99
Potash (60% K2O)	cwt	11.06						0.25	11.31		11.31
Bed-Rip/Disk Rigid	8R-30		2.72	1.00	3.35			0.13	7.20	5.95	13.15
Peanut Plt&Pre Rigid	8R-30		2.99	3.15	5.07			0.21	11.42	9.79	21.21
Peanut Seed	lb	77.00						1.44	78.44		78.44
Optimize LIFT	oz	7.55						0.14	7.69		7.69
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual II Magnum	pt	13.99						0.26	14.25		14.25
Valor SX	oz	21.30						0.40	21.70		21.70
Sprayer 600-750gal	60' 175hp		0.08	0.04	0.13				0.25	0.27	0.52
Acephate 90%	lb	1.02						0.02	1.04		1.04
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Storm	pt	17.82						0.27	18.09		18.09
Cadre	oz	16.84						0.25	17.09		17.09
Butyrac 200 (2,4-DB)	pt	4.05						0.06	4.11		4.11
Crop Oil Conc.(Veg.)	pt	8.88						0.13	9.01		9.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Abound	pt	36.60						0.41	37.01		37.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Storm	pt	17.82						0.20	18.02		18.02
Butyrac 200 (2,4-DB)	pt	4.05						0.05	4.10		4.10
Crop Oil Conc.(Veg.)	pt	8.88						0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Select Max	pt	12.35						0.14	12.49		12.49
Crop Oil Conc.(Veg.)	pt	8.88						0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	5.27						0.06	5.33		5.33
Tebuconazole	oz	6.03						0.07	6.10		6.10
Sprayer 600-750gal	60' 175hp		0.16	0.08	0.25				0.49	0.54	1.03
Belt	oz	6.70						0.05	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Abound	pt	36.60						0.27	36.87		36.87
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.06	7.96		7.96
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51				0.99	1.08	2.07
Bravo Weather Stick	pt	7.90						0.03	7.93		7.93
Peanut Dig/Invertor	4R-30		4.61	3.03	5.69			0.05	13.38	10.38	23.76
Peanut Harvester	4R-30		19.69	12.32	20.50			0.20	52.71	62.13	114.84
Dry Peanuts	ton	25.92						0.10	26.02		26.02
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.10	26.20		26.20
Peanut Dump Cart	6-Row		6.06	2.59	7.47			0.06	16.18	14.43	30.61
TOTALS			521.64	40.15	24.13	48.58	0.00	7.99	642.49	116.45	758.94

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 30.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	21.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80	47.90	44.50	7.90
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.04	35.29	38.71	34.22	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.02	0.00	0.00	6.70	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	17.76	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.51	9.06	1.53	2.04	1.27	34.17
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.32	6.11	0.96	1.28	0.80	30.68
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	4.35	0.48	0.64	0.40	18.10
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.90	2.90	0.98	1.17	0.40	0.64
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.74	158.28	67.34	105.01	54.07	171.05
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-158.28	-67.34	-105.01	-54.07	503.95
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-245.02	-312.36	-417.37	-471.44	32.51

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 30.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			281.25	300.00	318.75	337.50	356.25	375.00	393.75	412.50	431.25	450.00	468.75
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-349 -465	-332 -449	-315 -432	-298 -415	-281 -398	-265 -381	-248 -364	-231 -347	-214 -330	-197 -314	-180 -297
60	1.08	ton	-306 -423	-286 -402	-266 -382	-246 -362	-225 -342	-205 -321	-185 -301	-165 -281	-144 -261	-124 -240	-104 -220
70	1.26	ton	-264 -380	-240 -356	-216 -333	-193 -309	-169 -286	-146 -262	-122 -238	-98 -215	-75 -191	-51 -167	-27 -144
80	1.44	ton	-221 -337	-194 -310	-167 -283	-140 -256	-113 -229	-86 -202	-59 -175	-32 -148	-5 -121	21 -94	48 -67
90	1.62	ton	-178 -295	-148 -264	-118 -234	-87 -204	-57 -173	-27 -143	3 -113	33 -82	64 -52	94 -21	124 8
100	1.80	ton	-136 -252	-102 -218	-68 -185	-34 -151	-1 -117	32 -83	66 -50	100 -16	133 17	167 51	201 84
110	1.98	ton	-93 -210	-56 -172	-19 -135	17 -98	54 -61	92 -24	129 12	166 49	203 86	240 124	277 161
120	2.16	ton	-50 -167	-10 -126	30 -86	70 -45	111 -5	151 35	192 75	232 116	273 156	313 197	354 237
130	2.34	ton	-8 -124	35 -80	79 -37	123 6	167 50	211 94	254 138	298 182	342 226	386 270	430 313
140	2.52	ton	34 -82	81 -34	128 12	176 59	223 106	270 154	317 201	365 248	412 295	459 343	506 390
150	2.70	ton	76 -39	127 11	178 61	228 112	279 163	330 213	380 264	431 314	481 365	532 416	583 466

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 2015 input prices.

Table 31.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	25.00	0.4300	10.75	_____
Potash (60% K2O)	cwt	21.27	0.5200	11.06	_____
FUNGICIDES					
Bravo Weather Stick	pt	5.27	7.0000	36.89	_____
Abound	pt	32.53	2.2500	73.19	_____
Tebuconazole	oz	0.67	9.0000	6.03	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.26	4.0000	9.04	_____
Dual II Magnum	pt	13.99	1.0000	13.99	_____
Valor SX	oz	7.10	3.0000	21.30	_____
Storm	pt	11.88	3.0000	35.64	_____
Cadre	oz	4.21	4.0000	16.84	_____
Butyrac 200 (2,4-DB)	pt	4.05	2.0000	8.10	_____
Select Max	pt	12.35	1.0000	12.35	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Acephate 90%	lb	7.45	0.1375	1.02	_____
Belt	oz	6.70	1.0000	6.70	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.44	6.0000	26.64	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.51	14.8000	7.55	_____
OPERATOR LABOR					
Tractors	hour	13.40	1.1856	15.89	_____
Self-Propelled	hour	13.40	0.2247	3.06	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1123	1.02	_____
UNALLOCATED LABOR	hour	13.40	1.1283	15.13	_____
DIESEL FUEL					
Tractors	gal	2.00	12.8051	25.61	_____
Self-Propelled	gal	2.00	2.0230	4.08	_____
REPAIR & MAINTENANCE					
Implements	acre	8.60	1.0000	8.60	_____
Tractors	acre	7.67	1.0000	7.67	_____
Self-Propelled	acre	2.04	1.0000	2.04	_____
INTEREST ON OP. CAP.	acre	7.75	1.0000	7.75	_____
TOTAL DIRECT EXPENSES				613.22	_____
FIXED EXPENSES					
Implements	acre	30.46	1.0000	30.46	_____
Tractors	acre	48.33	1.0000	48.33	_____
Self-Propelled	acre	13.77	1.0000	13.77	_____
TOTAL FIXED EXPENSES				92.56	_____
TOTAL SPECIFIED EXPENSES				705.78	_____

Note: Cost of production estimates are based on 2015 input prices

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 31.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	375.00	1.8000	675.00	_____

TOTAL INCOME				675.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	21.81	1.0000	21.81	_____
FUNGICIDES	acre	116.10	1.0000	116.10	_____
HERBICIDES	acre	117.26	1.0000	117.26	_____
INSECTICIDES	acre	22.72	1.0000	22.72	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	26.64	1.0000	26.64	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	46.00	1.0000	46.00	_____
INOCULANT	acre	7.55	1.0000	7.55	_____
HAND LABOR	hour	9.06	0.1928	1.75	_____
OPERATOR LABOR	hour	13.40	1.4104	18.95	_____
UNALLOCATED LABOR	hour	13.40	1.1283	15.13	_____
DIESEL FUEL	gal	2.00	14.8281	29.69	_____
REPAIR & MAINTENANCE	acre	18.31	1.0000	18.31	_____
INTEREST ON OP. CAP.	acre	7.75	1.0000	7.75	_____

TOTAL DIRECT EXPENSES				613.22	_____
RETURNS ABOVE DIRECT EXPENSES				61.78	_____
TOTAL FIXED EXPENSES				92.56	_____

TOTAL SPECIFIED EXPENSES				705.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-30.78	_____

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 31.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Belt	oz					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.0800				
Cleaning Peanuts	ton					1.5300				
Haul Peanuts	ton					1.8000				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.41	1.18	1.60	1.12

Note: Cost of production estimates are based on 2015 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 31.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Glyphosate 3lbs a.e	pt	9.04						0.20	9.24		9.24
Lime (Spread)	ton	46.00						1.03	47.03		47.03
Custom Apply Fert	acre	7.00						0.16	7.16		7.16
Phosphorus (46% P2O5)	cwt	10.75						0.24	10.99		10.99
Potash (60% K2O)	cwt	11.06						0.25	11.31		11.31
Bed-Rip/Disk Fold.	12R-38		1.07	0.46	1.12			0.05	2.70	2.67	5.37
Peanut Plt&Pre Fold.	12R-38		1.57	2.83	2.67			0.13	7.20	7.40	14.60
Peanut Seed	lb	77.00						1.44	78.44		78.44
Optimize LIFT	oz	7.55						0.14	7.69		7.69
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.02	1.01	1.08	2.09
Dual II Magnum	pt	13.99						0.26	14.25		14.25
Valor SX	oz	21.30						0.40	21.70		21.70
Sprayer 600-750gal	60' 175hp		0.08	0.04	0.13				0.25	0.27	0.52
Acephate 90%	lb	1.02						0.02	1.04		1.04
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Storm	pt	17.82						0.27	18.09		18.09
Cadre	oz	16.84						0.25	17.09		17.09
Butyrac 200 (2,4-DB)	pt	4.05						0.06	4.11		4.11
Crop Oil Conc. (Veg.)	pt	8.88						0.13	9.01		9.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.12	8.02		8.02
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Abound	pt	36.60						0.41	37.01		37.01
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Storm	pt	17.82						0.20	18.02		18.02
Butyrac 200 (2,4-DB)	pt	4.05						0.05	4.10		4.10
Crop Oil Conc. (Veg.)	pt	8.88						0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Select Max	pt	12.35						0.14	12.49		12.49
Crop Oil Conc. (Veg.)	pt	8.88						0.10	8.98		8.98
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	5.27						0.06	5.33		5.33
Tebuconazole	oz	6.03						0.07	6.10		6.10
Sprayer 600-750gal	60' 175hp		0.16	0.08	0.25				0.49	0.54	1.03
Belt	oz	6.70						0.05	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Abound	pt	36.60						0.27	36.87		36.87
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51			0.01	1.00	1.08	2.08
Bravo Weather Stick	pt	7.90						0.06	7.96		7.96
Sprayer 600-750gal	60' 175hp		0.32	0.16	0.51				0.99	1.08	2.07
Bravo Weather Stick	pt	7.90						0.03	7.93		7.93
Peanut Dig/Invertor	6R-38		2.43	1.62	2.99			0.03	7.07	5.95	13.02
Peanut Harvester	6R-38		14.48	8.77	15.08			0.14	38.47	48.34	86.81
Dry Peanuts	ton	25.92						0.10	26.02		26.02
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.10	26.20		26.20
Peanut Dump Cart	6-Row		6.06	2.59	7.47			0.06	16.18	14.43	30.61
TOTALS			521.64	29.69	18.31	35.83	0.00	7.75	613.22	92.56	705.78

Note: Cost of production estimates are based on 2015 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 31.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	21.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80	47.90	44.50	7.90
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.04	35.29	38.71	34.22	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.02	0.00	0.00	6.70	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	17.76	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.51	4.43	1.53	2.04	1.27	26.05
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.32	3.04	0.96	1.28	0.80	23.29
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.49	0.48	0.64	0.40	13.14
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.90	2.74	0.98	1.17	0.40	0.56
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.74	149.56	67.34	105.01	54.07	150.50
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-149.56	-67.34	-105.01	-54.07	524.50
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.74	-236.30	-303.64	-408.65	-462.72	61.78

Note: Cost of production estimates are based on 2015 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 31.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2016

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			281.25	300.00	318.75	337.50	356.25	375.00	393.75	412.50	431.25	450.00	468.75
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-320 -412	-303 -395	-286 -378	-269 -362	-252 -345	-235 -328	-218 -311	-202 -294	-185 -277	-168 -260	-151 -243
60	1.08	ton	-277 -370	-257 -349	-237 -329	-216 -309	-196 -289	-176 -268	-156 -248	-135 -228	-115 -208	-95 -187	-75 -167
70	1.26	ton	-234 -327	-211 -303	-187 -280	-164 -256	-140 -232	-116 -209	-93 -185	-69 -162	-45 -138	-22 -114	1 -91
80	1.44	ton	-192 -284	-165 -257	-138 -230	-111 -203	-84 -176	-57 -149	-30 -122	-3 -95	23 -68	50 -41	77 -14
90	1.62	ton	-149 -242	-119 -211	-88 -181	-58 -151	-28 -120	2 -90	32 -59	63 -29	93 0	123 31	154 61
100	1.80	ton	-106 -199	-73 -165	-39 -132	-5 -98	28 -64	61 -30	95 2	129 36	163 70	196 104	230 137
110	1.98	ton	-64 -156	-27 -119	9 -82	47 -45	84 -8	121 28	158 65	195 102	232 140	269 177	306 214
120	2.16	ton	-21 -114	18 -73	59 -33	99 7	140 47	180 88	221 128	261 169	302 209	342 250	383 290
130	2.34	ton	20 -71	64 -27	108 16	152 60	196 103	240 147	284 191	328 235	371 279	415 323	459 367
140	2.52	ton	63 -28	110 18	158 65	205 112	252 160	299 207	347 254	394 301	441 349	488 396	536 443
150	2.70	ton	106 13	156 64	207 114	258 165	308 216	359 266	409 317	460 368	511 418	561 469	612 519

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 2015 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, 2016

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	315,000	300	8	13.64	13.40	27.28	32.81	73.49	129.47	202.96
Combine (300-349 hp)	325 hp	332,000	300	8	16.73	13.40	33.46	34.58	81.44	136.45	217.90
Combine (350-399 hp)	355 hp	332,000	300	8	18.27	13.40	36.54	34.58	84.52	136.45	220.98
Combine (400-449 hp)	425 hp	407,000	300	8	21.87	13.40	43.75	42.39	99.54	167.28	266.83
Combine (450-499hp)	475 hp	414,000	300	8	24.44	13.40	48.89	43.12	105.42	170.16	275.58
Tractor (20-39hp)CB	MFWD 30	31,000	600	8	1.54	13.40	3.08	0.96	17.45	5.82	23.28
Tractor (20-39hp)RB	MFWD 30	19,900	600	8	1.54	13.40	3.08	0.62	17.10	3.74	20.85
Tractor (40-59hp)CB	2WD 50	31,100	600	8	2.57	13.40	5.14	0.97	19.51	5.84	25.36
Tractor (40-59hp)CB	MFWD 50	38,100	600	8	2.57	13.40	5.14	1.19	19.73	7.16	26.90
Tractor (40-59hp)RB	2WD 50	18,500	600	8	2.57	13.40	5.14	0.57	19.12	3.47	22.60
Tractor (40-59hp)RB	MFWD 50	23,600	600	8	2.57	13.40	5.14	0.73	19.28	4.43	23.72
Tractor (60-89hp)CB	2WD 75	47,700	600	8	3.86	13.40	7.72	1.49	22.61	8.97	31.58
Tractor (60-89hp)CB	MFWD 75	49,300	600	8	3.86	13.40	7.72	1.54	22.66	9.27	31.93
Tractor (60-89hp)RB	2WD 75	37,000	600	8	3.86	13.40	7.72	1.15	22.27	6.95	29.23
Tractor (60-89hp)RB	MFWD 75	37,800	600	8	3.86	13.40	7.72	1.18	22.30	7.10	29.41
Tractor (90-119hp)CB	2WD 105	65,300	600	8	5.40	13.40	10.80	2.04	26.24	12.28	38.52
Tractor (90-119hp)CB	MFWD 105	78,300	600	8	5.40	13.40	10.80	2.44	26.65	14.72	41.38
Tractor (90-119hp)RB	2WD 105	59,900	600	8	5.40	13.40	10.80	1.87	26.08	11.26	37.34
Tractor (90-119hp)RB	MFWD 105	60,300	600	8	5.40	13.40	10.80	1.88	26.09	11.33	37.43
Tractor (120-139hp)CB	2WD 130	96,300	600	8	6.69	13.40	13.38	3.00	29.79	18.10	47.90
Tractor (120-139hp)CB	MFWD 130	116,000	600	8	6.69	13.40	13.38	3.62	30.40	21.81	52.22
Tractor (140-159hp)CB	2WD 150	108,000	600	8	7.72	13.40	15.44	3.37	32.21	20.30	52.52
Tractor (140-159hp)CB	MFWD 150	149,000	600	8	7.72	13.40	15.44	4.65	33.49	28.02	61.51
Tractor (160-179hp)CB	MFWD 170	166,000	600	8	8.75	13.40	17.50	5.18	36.08	32.66	68.75
Tractor (180-199hp)CB	MFWD 190	180,000	600	8	9.77	13.40	19.55	5.62	38.58	35.42	74.00
Tractor (200-249hp)CB	MFWD 225	228,000	600	8	11.58	13.40	23.16	7.12	43.68	44.86	88.55
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	13.40	23.16	8.65	45.21	54.50	99.72
Tractor (250-349hp)CB	4WD 300	282,000	600	8	15.44	13.40	30.88	8.81	53.09	55.49	108.58
Tractor (250-349hp)CB	MFWD 300	287,000	600	8	15.44	13.40	30.88	8.96	53.25	56.47	109.72
Tractor (250-349hp)CB	Track 300	289,000	600	8	15.44	13.40	30.88	9.03	53.31	56.86	110.18
Tractor (350-449hp)CB	4WD 400	341,000	600	8	20.58	13.40	41.17	10.65	65.23	67.10	132.33
Tractor (350-449hp)CB	Track 400	364,000	600	8	20.58	13.40	41.17	11.37	65.95	71.62	137.58
Tractor (450-550hp)CB	4WD 500	383,000	600	8	25.73	13.40	51.47	11.96	76.84	75.36	152.20
Tractor (450-550hp)CB	Track 500	423,000	600	8	25.73	13.40	51.47	13.21	78.09	83.23	161.32
Utility Vehicle	900 CC	12,200	200	8	1.00	13.40	2.25	1.90	17.55	7.52	25.07
Utility Vehicle	800 CC	9,900	200	8	0.70	13.40	1.57	1.54	16.52	6.10	22.62
Utility Vehicle-mule	600 CC	7,000	200	8	0.50	13.40	1.12	1.09	15.61	4.31	19.93

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2016

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	5.78	6.63	10.79	23.21	42.59	65.81
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.78	9.28	14.13	29.21	55.78	84.99
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	3.87	6.20	9.61	19.69	37.92	57.61
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	4.90	7.97	15.85	28.73	62.56	91.30
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	3.87	6.29	12.51	22.68	49.39	72.08
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	5.78	10.61	21.58	37.99	85.18	123.17
Cotton Picker/Modu	6R-30 (500)	727,000	200	8	25.73	0.218	4.90	11.23	24.79	40.92	97.82	138.75
Cotton Picker/Modu	6R-38 (365)	536,000	200	8	20.58	0.172	3.87	7.09	14.43	25.39	56.94	82.33
Cotton Picker/Module	6R-38 (500)	727,000	200	8	25.73	0.172	3.87	8.86	19.57	32.31	77.23	109.54
Dry Applicator SP	70'300cuft	293,000	350	8	16.98	0.015	0.27	0.51	0.23	1.02	1.55	2.58
Sprayer 600-750gal	60' 175hp	174,000	350	8	9.00	0.017	0.31	0.31	0.16	0.79	1.08	1.87
Sprayer 600-825gal	80' 175hp	180,000	350	8	11.81	0.013	0.23	0.31	0.12	0.67	0.83	1.51
Sprayer 600-825gal	90' 250hp	255,000	350	8	12.73	0.011	0.21	0.29	0.16	0.67	1.05	1.72
Sprayer 800gal	100' 250hp	257,000	350	8	14.15	0.010	0.18	0.29	0.14	0.63	0.95	1.59
Sprayer 800gal	80' 250hp	212,000	350	8	12.86	0.013	0.23	0.34	0.15	0.72	0.98	1.71
Sprayer 1000-1400gal	90' 275hp	297,000	350	8	14.15	0.010	0.18	0.29	0.16	0.65	1.10	1.76
Sprayer 1000gal	100' 300hp	301,000	350	8	15.44	0.010	0.18	0.32	0.17	0.68	1.12	1.80
Sprayer 1200+gal	120' 300hp	336,000	350	8	15.44	0.008	0.15	0.27	0.15	0.58	1.04	1.63

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, 2016 (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-----							
Spray (Pull Type)	120'	MFWD 225	75,800	200	8	0.014	0.25	0.32	0.50	0.10	1.18	0.60	0.63	2.41
Spray (Ropewick)	20'	MFWD 190	3,440	200	8	0.084	1.51	1.65	0.13	0.47	3.78	0.16	2.99	6.94
Spray (Spot)	27'	MFWD 170	5,390	200	8	0.062	1.12	1.09	0.15	0.32	2.70	0.19	2.04	4.94
Spray (Spot)	40'	MFWD 170	7,700	200	8	0.042	0.75	0.74	0.15	0.21	1.87	0.18	1.38	3.43
Spray (Spot)	50'	MFWD 170	6,800	200	8	0.033	0.60	0.59	0.10	0.17	1.48	0.12	1.10	2.71
Spray (Spot)	53'	MFWD 170	9,300	200	8	0.031	0.57	0.55	0.13	0.16	1.43	0.16	1.04	2.64
Spray (Spot)	60'	MFWD 225	18,400	200	8	0.028	0.50	0.65	0.24	0.20	1.60	0.29	1.26	3.16
Stalk Shredder	14'	MFWD 150	13,100	200	10	0.117	1.57	1.81	1.35	0.54	5.29	0.81	3.30	9.41
Stalk Shredder Flex	20'	MFWD 150	30,200	200	10	0.082	1.10	1.27	2.18	0.38	4.94	1.31	2.31	8.57
Stalk Shredder-Flail	12'	MFWD 150	15,100	200	10	0.137	1.84	2.12	1.81	0.64	6.42	1.09	3.85	11.37
Stalk Shredder-Flail	15'	MFWD 150	20,200	200	10	0.110	1.47	1.69	1.94	0.51	5.62	1.17	3.08	9.88
Stalk Shredder-Flail	18'	MFWD 150	25,800	200	10	0.091	1.22	1.41	2.06	0.42	5.14	1.24	2.56	8.95
Stalk Shredder-Flail	20'	MFWD 150	27,300	200	10	0.082	1.10	1.27	1.97	0.38	4.73	1.18	2.31	8.23
Stalk Shredder-Flail	25'	MFWD 150	38,700	200	10	0.066	0.88	1.01	2.23	0.30	4.44	1.34	1.84	7.64
Strip Till	8R-38	MFWD 225	27,200	150	10	0.061	0.82	1.42	0.72	0.43	3.41	1.18	2.76	7.36
Strip Till	12R-30	MFWD 225	47,500	150	10	0.061	0.82	1.42	1.26	0.43	3.96	2.06	2.76	8.78
Strip Till	12R-40	MFWD 225	58,500	150	10	0.046	0.61	1.07	1.17	0.32	3.19	1.90	2.07	7.16
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.73	3.99	0.24	1.14	8.12	0.59	7.23	15.96
Subsoiler	4 shank	MFWD 225	8,330	100	15	0.153	2.05	3.55	0.42	1.09	7.13	1.05	6.89	15.08
Subsoiler	5 shank	MFWD 225	13,800	100	15	0.122	1.63	2.83	0.56	0.87	5.90	1.39	5.48	12.79
Subsoiler low-till	4 shank	MFWD 225	12,000	100	15	0.153	2.05	3.55	0.61	1.09	7.32	1.51	6.89	15.73
Subsoiler low-till	6 shank	MFWD 225	16,600	100	15	0.102	1.36	2.36	0.56	0.72	5.02	1.39	4.58	11.01
Subsoiler low-till	8 shank	MFWD 225	22,200	100	15	0.076	1.02	1.77	0.56	0.54	3.90	1.40	3.43	8.74

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.86	Dithane F-45	qt	8.52
Crop Oil Conc. (Veg.)	pt	4.44	Dithane Rainshield	pt	3.96
Drift/Defoamer	pt	2.13	Enable 2F	oz	2.02
Dyne-A-Pak	pt	5.51	Headline EC	oz	3.79
MSO	pt	3.00	Headline SC	oz	3.69
Spreader Sticker	pt	3.54	Manzate 75 DF	lb	4.81
Surfactant	pt	5.35	Moncut 70 DF	lb	33.30
CLEANING					
Cleaning Peanuts	ton	18.00	Prevail	lb	28.50
CROP CONSULTANT					
Corn Consultant	acre	7.00	Propimax EC	pt	11.94
Cotton Consultant	acre	8.00	Prosaro	oz	2.77
Rice Consultant	acre	8.00	Provost	oz	2.34
Soybeans Consultant	acre	7.00	Quadris	oz	3.05
Wheat Consultant	acre	5.00	Quadris Top	oz	2.16
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	Quilt	pt	23.79
App Fert by Air (Mi)	appl	7.00	Quilt XCEL	pt	31.47
Custom Apply Fert	acre	7.00	Ridomil Gold	oz	6.41
CUSTOM LIME					
Lime (Spread)	ton	46.00	Ridomil Gold PC GR	lb	5.30
CUSTOM PLANT					
Custom Plant	acre	13.00	Rovral 4F	pt	11.14
Custom Plant Air	cwt	7.00	Stiletto	oz	0.58
CUSTOM SPRAY					
App by Air (2 gal)	appl	4.00	Stratego 250EC	pt	25.58
App by Air (3 gal)	appl	5.00	Stratego YLD	oz	5.04
App by Air (5 gal)	appl	6.50	Tilt 3.6 EC	oz	0.86
App by Air (10 gal)	appl	8.75	Tilt/ Bravo SE	oz	0.38
Custom Spray Ground	acre	7.50	Uniform	oz	4.89
Custom Spray Self Pr	acre	6.25	Vitavax RTU-Thiram	oz	0.40
Custom Spray Tractor	acre	7.75	GINNING		
DRYING					
Dry Corn	bu	0.19	Gin & Haul	lb	0.11
Dry Grain Sorghum	cwt	0.25	GROWTH REGULATORS		
Dry Peanuts	ton	24.00	Early Harvest PGR	oz	1.55
Dry Rice	bu	0.40	Mepex	oz	0.10
ERADICATION FEE					
Eradication	acre	1.00	Mepex Gin Out	oz	0.12
FERTILIZERS					
Amm Sulfate (21% N)	cwt	17.25	Mepichlor 4.2%	oz	0.11
Boron Plus	pt	4.24	Mepiquat	oz	0.11
Fert 10-34-0	cwt	32.50	Mepiquat Extra	oz	0.11
Fert 41-0-0-4	cwt	20.50	Pentia	pt	5.94
Lime	ton	36.00	Pix Plus	oz	0.19
NBPT	pt	9.88	Stance	oz	1.18
Phosphorus (46% P2O5)	cwt	25.00	HARVEST AIDS		
Potash (60% K2O)	cwt	21.27	Adios	oz	1.27
Sulfur 90%	lb	0.34	Aim 2EC	oz	5.46
Sulfur Plus	pt	2.62	Ammonium Sulfate	lb	0.24
SuperMax AMS	pt	2.67	CottonQuik	pt	5.01
UAN (32% N)	cwt	15.95	Def 6	pt	8.25
UAN + Sulfur (28%)	cwt	16.33	Def/Folex	pt	9.99
UAN 1%	pt	0.00	Defol 3	gal	3.45
Urea, Solid (46% N)	cwt	20.83	Defol 5	gal	6.55
Zinc Plus	pt	3.00	Dropp SC	oz	1.60
FUNGICIDES					
Abound	pt	32.53	ET	pt	23.98
Alfa Guard	lb	1.62	Ethephon 6E	pt	4.69
Allegiance Flowable	pt	55.70	Finish 6	pt	8.93
Apron Maxx RTA	oz	0.86	First Pick	pt	3.99
Apron Maxx RTA+Moly	pt	16.84	Flash	pt	4.68
Apron XL LS	oz	6.98	Folex 6EC	pt	9.92
Artisan	oz	1.02	Freefall SC	oz	1.30
Bravo Ultrex	lb	6.93	Ginstar EC	pt	30.60
Bravo Weather Stick	pt	5.27	Gramoxone SL	oz	0.31
Captan 50 WP	lb	4.03	Paraquat	oz	0.27
Cotton Seed Trt.	acre	20.00	Prep	pt	3.32
CruiserMaxx	oz	4.44	Sharpen	oz	6.23
			Sodium Chlorate 3L	gal	3.50
			Sodium Chlorate 5L	gal	5.57
			TDZ SC	oz	0.79
			Thidiazuron 4lb	oz	0.79
			Tribufos 6lb	pt	9.90
			Vacate	oz	1.17
			HAULING		
			Haul Corn	bu	0.23

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Peanuts	ton	14.50	Guardsman Max	pt	7.22
Haul Rice	bu	0.35	Halex GT	pt	7.22
Haul Sorghum	bu	0.25	Halomax	oz	19.26
Haul Soybeans	bu	0.27	Harmony Extra SG TS	oz	29.95
Haul Wheat	bu	0.26	Harmony Extra TotSol	oz	13.51
HERBICIDES			Harness XTRA	pt	6.59
2,4-D Amine 4	pt	2.44	Ignite 280	pt	8.93
2,4-D Weedar 64	pt	2.44	Impact	oz	23.92
AAtrex 4L	pt	2.46	Karmex XP	lb	6.05
AAtrex NINE-O	lb	3.60	Lariat	qt	7.58
Accent Q	oz	32.40	Laudis	oz	5.74
Aim 2EC	oz	5.46	Layby Pro	qt	14.18
Assure II	oz	0.75	Leadoff	oz	5.73
Atrazine 4L	pt	2.03	Lexar	pt	7.56
Atrazine 90DF	lb	3.60	Liberty 280	oz	0.68
Axial XL	oz	1.10	Linex 4L	pt	10.56
Axiom 68DF	oz	0.23	Londax 60DF	oz	17.13
Banvel	pt	11.98	Lorox 50DF	lb	23.52
Basagran	pt	12.90	Metribuzin 75	lb	13.38
Basis	oz	12.93	MSMA 6.6	pt	3.38
Beyond	oz	4.43	MSMA6 Plus	pt	3.23
Bicep II Magnum	qt	10.37	Newpath 2SL	oz	3.68
Bicep Lite Magnum	pt	6.88	Osprey	oz	3.47
Blazer Ultra	pt	9.79	Outlook	pt	16.80
Bolero 8EC	pt	7.67	Paraquat	oz	0.31
Boundary 6.5 EC	pt	10.18	Parazone 3SL	oz	0.28
Bullet	pt	3.79	Parrot 4L	pt	2.74
Butyrac 175 (2,4-D)	pt	3.11	Peak Accu Pak	oz	15.75
Butyrac 200 (2,4-DB)	pt	4.05	Permit 75 DF	oz	20.73
Cadre	oz	4.21	Poast 1.53	pt	12.41
Callisto 4SC	oz	6.02	Poast Plus	pt	8.60
Canopy 75%	oz	2.70	PowerFlex HL	lb	115.78
Canopy EX	oz	7.97	Prefix	pt	5.81
Caparol 4L	pt	4.02	Prowl 3.3 EC	pt	5.62
Capreno	oz	6.73	Prowl H20	pt	5.95
Clarity	pt	12.89	Pursuit 2S	oz	3.40
Classic	oz	16.85	Python WDG	oz	13.56
Clearpath	lb	55.90	Quinstar	lb	49.16
Clincher SF	oz	2.34	Raptor	oz	4.37
Cobra 2EC	oz	1.68	RealmQ	oz	5.00
Command 3ME	pt	19.38	Reflex 2LC	pt	6.30
Corvus	oz	6.82	Regiment 80WP	oz	43.75
Cotoran 4L	pt	5.99	Remedy Ultra	pt	9.10
Cotton Pro	pt	3.53	Resolve SG	oz	8.58
Credit Extra	pt	2.07	Resource .86EC	pt	29.40
Dicamba	pt	10.83	Ricebeaux	pt	5.53
Direx 4L	pt	4.41	RicePro	pt	4.87
Diuron 4L	pt	4.15	Riceshot	pt	4.14
Diuron 80 DF	lb	6.20	Ricestar HT	pt	23.54
Diuron 80%	lb	6.20	Roundup Power Max	oz	0.19
Dual II Magnum	pt	13.99	Roundup PowerMax	pt	2.99
Dual Magnum	pt	13.49	Roundup WeatherMax	oz	0.27
Duet	pt	5.09	Roundup WeatherMax	pt	4.33
Envoke	oz	96.59	Salvo	pt	5.13
Evik DF 80W	lb	11.22	Scepter 70 DG	oz	4.52
Expert	pt	4.19	Select Max	pt	12.35
Facet L	pt	14.60	Sequence	pt	5.87
Finesse	oz	15.66	Sharpen	oz	6.07
First Rate	oz	41.50	Simazine 4L	pt	3.17
Flexstar	pt	8.30	Stalwart	pt	6.39
Fultime	pt	5.25	Stam 80 EDF	lb	9.50
Fusilade DX	oz	1.08	Stam M4	qt	7.78
Fusion	pt	26.89	Staple LX	oz	8.83
Glyphos	pt	1.80	Steadfast	oz	12.32
Glyphos Xtra	pt	2.25	Storm	pt	11.88
Glyphosate 3lbs a.e	pt	2.26	Strada WG	oz	6.91
Glyphosate 3lbs a.e	oz	0.14	Strongarm	oz	51.19
Glystar Plus	pt	2.45	Superwham	qt	9.18
Goal 2XL	pt	9.83	Suprend	lb	13.49
Gramoxone SL 2.0	oz	0.31	Surpass EC	qt	28.06
Grandstand R	qt	29.47			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Synchrony XP	oz	12.49	Montana	oz	1.00
Touchdown Total	qt	7.13	Mustang Max	oz	1.45
Treflan 4D	pt	3.40	Nuprid 4F	oz	0.51
Tricor DF	lb	15.55	Oberon 4 SC	pt	59.84
Trifluralin 4EC	pt	3.60	Orthene 97S	lb	9.10
Valor SX	oz	7.10	PennCap-M	pt	6.71
Valor XLT	oz	5.11	Pounce 25WP	lb	15.16
Verdict	oz	1.77	Prevathon	oz	1.25
Zorial Rapid 80DF	lb	14.10	Prolex	oz	2.62
INOCULANT			Provoke	oz	1.75
Optimize LIFT	oz	0.54	Radiant	oz	6.73
Vault	oz	1.73	Respect .8EC	pt	34.00
INSECTICIDES			Sevin 4F	pt	5.89
Abamectin .15EC	oz	0.72	Sevin 80S	lb	7.40
Acephate 90%	lb	7.45	Sevin XLR Plus	qt	12.50
Acephate 90SP	lb	7.45	Sivanto	oz	2.40
Acramite-4SC	oz	1.88	Steward	pt	36.33
Admire Pro	oz	2.95	Thimet 20-G Lock N L	lb	3.65
Asana .66 XL	oz	0.57	Thionex 3 EC	pt	4.17
Aztec 2.1% G	lb	3.77	Thionex 50W	lb	10.45
Baythroid XL	oz	2.55	Tracer 4SC	oz	9.73
Bidrin 8WM	oz	1.09	Transform WG	oz	7.74
Bidrin XP	oz	1.05	Vydate C-LV	oz	0.93
Bifenthrin	oz	0.89	Zeal Miticid I	oz	15.89
Bifenture 2EC	pt	16.10	Zephyr	oz	0.85
Brigade EC	pt	16.12	IRRIGATION SUPPLIES		
Brigade WSB	lb	22.47	Roll-Out Pipe	ft	0.26
Capture LFR	oz	2.53	SEED/PLANTS		
Carbaryl 4L	pt	5.28	Corn Seed B2RR	thous	3.27
Carbine 50WG	oz	5.93	Corn Seed Conv.	thous	2.61
Centric 40WG	oz	4.95	Corn Seed LLRRBT	thous	3.64
Comite 1l	pt	8.98	Corn Seed RR2	thous	3.02
Confirm 2F	oz	2.11	Corn Seed VT3	thous	3.52
Counter 15G	lb	4.51	Corn Seed VT3Pro	thous	3.52
Cruiser Maxx Rice	lbseed	0.13	Cotton Seed B2RF	thous	0.72
Curacron 8E	pt	10.75	Cotton Seed LLB2	thous	1.25
Cypermethrin	oz	0.55	Cotton Seed W	thous	0.74
Denim 0.16 EC	pt	32.63	Cotton Seed WRF	thous	0.86
Diamond .83EC	pt	21.28	Peanut Seed	lb	0.70
Diamond .83EC	oz	1.33	Rice Clearfield	lb	1.05
Dimethoate 4E	pt	6.51	Rice Clearfield Hyb	lb	5.82
Dimilin 2L	oz	2.22	Rice Conv. Hybrid	lb	5.91
Dipel DF	lb	15.09	Rice Seed (Levees)	lb	0.43
Dipel ES	pt	5.42	Rice Seed CF (Levees)	lb	1.05
Discipline 2 EC	oz	0.98	Rice Seed CFH (Levee)	lb	5.82
Endigo ZC	pt	27.76	Rice Seed Conv.	lb	0.43
Epi-Mek	pt	15.41	Sorghum Concept	lb	2.29
Fanfare 2EC	oz	0.93	Sorghum Concept+ Po	lb	3.60
Force 3G	lb	6.90	Soybean Seed LL	lb	1.15
Gaucho 600	oz	5.26	Soybean Seed RR2	lb	1.13
Hero	pt	25.34	Wheat Seed Private	lb	0.38
Imidan 70 WSB	oz	0.75	SOIL TEST		
Incidental Pest Trt	acre	12.00	Soil Test	acre	10.00
Incidental Pest Trt	acre	8.00	SURVEY & MARK LEVEES		
Intrepid 2F	oz	2.01	Survey & Mark Levees	acre	4.50
Intruder 70WSP	oz	9.83	TECHNOLOGY FEE		
Karate Z	oz	2.80	B2 Cot Tech Fee	thous	0.76
Kelthane MF 4EC	pt	5.00	B2 Cot Tech Fee	cap/ac	31.91
Lambda	oz	1.13	B2EF Cot Tech Fee	thous	1.63
Lannate LV	pt	11.08	B2EF Cot Tech Fee	cap/ac	68.62
Lannate SP	oz	2.13	B2RF Cot Tech Fee	thous	1.49
Larvin 3.2	oz	0.63	B2RF Cot Tech Fee	cap/ac	62.69
Leverage 2.7	oz	2.12	LLB2 Cot Tech Fee	thous	0.76
Lorsban 15G	lb	2.35	RF Cot Tech Fee	thous	1.04
Lorsban 4E	pt	6.02	RF Cot Tech Fee	cap/ac	43.66
Macho	oz	1.03	WRF Cot Tech Fee	thous	1.45
Malathion 5E	pt	4.54	WS Cot Tech Fee	thous	0.41
Malathion 8E	pt	5.33	WS Cotton Tech Fee	cap/ac	24.00
Monitor 4	pt	16.50			

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2016

ITEM NAME	UNIT	PRICE
		dollars
Diesel Fuel (DI) Price	(\$/gal):	2.00
Gasoline (GA) Price	(\$/gal):	2.25
LP Gas (LP) Price	(\$/gal):	1.70
Short-term Interest Rate	(%):	4.50
Intermediate-term Interest Rate	(%):	5.00

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2016

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	13.40
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, 2016

Crop	uni	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '16	4.15	-0.27	3.88	2.10	3.88
Cotton Lint	lb	Dec '16	0.6198	-0.0233	0.596 ^e	0.52	0.60
Cottonseed	lb						0.114 ^f
Grain Sorghum	bu				3.69	2.02	3.69
Peanuts	ton				375.00	355.00	375.00
Soybeans	bu	Nov '16	8.91	+0.07	8.98	5.21	8.98
Rice	bu	Nov '16	5.94	-0.54	5.40	2.98	5.40
Wheat	bu	Jul '16	5.31	-0.20	5.11	2.72	5.11

^a Average of the daily closing futures contract prices during first six trading days in October 2015 for the stated contract months.

^b Basis is the Greenville, MS cash price minus the futures contract price for the stated contract. The reported basis is a daily average from 2009 to 2015.

All basis values are composed of the typical harvest timeframe for each crop according to USDA, progress reports.

Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

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

^d Average Mississippi loan rate for the 2015 crop year for soybeans, corn, grain sorghum, and wheat. Loan rate for cotton. 2015 Mississippi farm stored loan rate for long grain rice. 2015 national average loan rate for peanuts.

^e Price used in the 2016 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2011-2015.

Appendix Table 8. Estimated costs for field operations, per acre
 Cotton irrigated with roll-out pipe
 160-acre roll-out pipe system, 10.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Land Plane	50'x16'		0.74	0.32	0.51		0.01	1.58	1.63	3.21
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.13	0.05	0.13		0.01	0.32	0.19	0.51
Roll-Out Pipe	ft	8.58					0.16	8.74		8.74
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.17	0.07	0.40		0.01	0.65	0.52	1.17
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.25	0.10	0.59		0.01	0.95	0.77	1.72
Land Forming (\$390)	each								31.93	31.93
Well & Pump, Furrow	each			2.44			0.05	2.49	7.21	9.70
Main Line Pipe	each								4.98	4.98
Engine, RPF, 75	each								8.38	8.38
June Irrigation	ac-in		5.70	1.30			0.13	7.13		7.13
July Irrigation	ac-in		5.70	1.30			0.11	7.11		7.11
August Irrigation	ac-in		5.70	1.30			0.08	7.08		7.08
TOTALS		8.58	18.39	6.88	4.36	0.00	0.61	38.82	55.61	94.43

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
 Cotton irrigated with center pivot
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2016

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				0.27		0.01	0.28	0.28
Maintenance									
IRRIGATE LABOR	hour				1.07		0.02	1.09	1.09
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Apply Water									
IRRIGATE LABOR	hour				0.20			0.20	0.20
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Pivot, 1/4 CP	each			11.23			0.21	11.44	45.07
Well & Pump, 1/4 CP	each			2.89			0.05	2.94	8.54
Engine, 1/4 CP, 65	each								9.93
June Irr. 3app@.75"	ac-in		6.72	1.39			0.15	8.26	8.26
July Irr. 4app@.75"	ac-in		8.96	1.86			0.16	10.98	10.98
Aug Irr. 3app@.75"	ac-in		6.72	1.39			0.09	8.20	8.20
TOTALS		0.00	22.40	18.76	1.84	0.00	0.69	43.69	63.54

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 10. Estimated costs for field operations, per acre
 Early soybeans irrigated with roll-out pipe
 160-acre system, 9 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Land Plane	50'x16'		0.74	0.32	0.51		0.07	1.64	1.63	3.27
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.13	0.05	0.13			0.31	0.19	0.50
Roll-Out Pipe	ft	8.58					0.13	8.71		8.71
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.17	0.07	0.40		0.01	0.65	0.52	1.17
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.25	0.10	0.59			0.94	0.77	1.71
Land Forming (\$390)	each								31.93	31.93
Well & Pump, Furrow	each			2.44			0.04	2.48	7.21	9.69
Main Line Pipe	each								4.98	4.98
Engine, RPF, ESB	each								8.07	8.07
1st June Irrigation	ac-in		4.89	1.26			0.09	6.24		6.24
2nd June Irrigation	ac-in		4.89	1.26			0.09	6.24		6.24
July Irrigation	ac-in		4.89	1.26			0.07	6.22		6.22
TOTALS		8.58	15.96	6.76	4.36	0.00	0.53	36.19	55.30	91.49

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 11. Estimated costs for field operations, per acre
 Irrigation with a contour flood system
 80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.28	0.10	0.22			0.01	0.61	1.25
Survey & Mark Levees	acre	2.25						0.04	2.29	2.29
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.37	0.14	0.29			0.02	0.82	1.68
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27			0.01	0.62	0.99
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.26	0.08	0.22			0.01	0.57	1.04
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.37	0.14	0.29			0.01	0.81	1.67
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27			0.01	0.62	0.99
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.26	0.08	0.22			0.01	0.57	1.04
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.37	0.14	0.29			0.01	0.81	1.67
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27			0.01	0.62	0.99
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.26	0.08	0.22			0.01	0.57	1.04
Tear Down Levees										
Levee Splitter (1/80	32"		0.19	0.06	0.17				0.42	0.76
Land Forming (\$113)	each								8.02	8.02
Well & Pump, Flood	each			4.88				0.09	4.97	19.38
Engine, CF, 75	each								16.75	16.75
June Irrigation	ac-in		7.33	2.61				0.19	10.13	10.13
July Irrigation	ac-in		7.33	2.61				0.15	10.09	10.09
August Irrigation	ac-in		7.33	2.61				0.11	10.05	10.05
TOTALS		2.25	25.16	13.74	5.55	0.00	0.73	47.43	45.26	92.69

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 12. Estimated costs for field operations, per acre
 Irrigation with a 1/2-mile center pivot system
 530-acre system, 7.5 ac-in., Delta Area, Mississippi, 2016

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				0.07				0.07	0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Pivot, 1/2 CP	each			6.87			0.13	7.00	27.56	34.56
Well & Pump, 1/2 CP	each			0.95			0.02	0.97	2.81	3.78
Engine, 1/2 CP, 164	each								3.85	3.85
June Irr. 3app@.75"	ac-in		9.84	0.54			0.19	10.57		10.57
July Irr. 4app@.75"	ac-in		13.12	0.72			0.21	14.05		14.05
Aug Irr. 3app@.75"	ac-in		9.84	0.54			0.12	10.50		10.50
TOTALS		0.00	32.80	9.62	0.47	0.00	0.68	43.57	34.22	77.79

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 13. Estimated costs for field operations, per acre
 Irrigation with a 1/4-mile center pivot system
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Maintenance										
IRRIGATE LABOR	hour				1.07		0.02	1.09		1.09
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20		0.20
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Pivot, 1/4 CP	each			11.23			0.21	11.44	45.07	56.51
Well & Pump, 1/4 CP	each			2.89			0.05	2.94	8.54	11.48
Engine, 1/4 CP, 65	each								9.93	9.93
June Irr. 3app@.75"	ac-in		6.72	1.39			0.15	8.26		8.26
July Irr. 4app@.75"	ac-in		8.96	1.86			0.16	10.98		10.98
Aug Irr. 3app@.75"	ac-in		6.72	1.39			0.09	8.20		8.20
TOTALS		0.00	22.40	18.76	1.84	0.00	0.69	43.69	63.54	107.23

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 14. Estimated costs for field operations, per acre
 Corn irrigated with roll-out pipe
 160-acre system, 13 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		0.74	0.32	0.51			0.07	1.64	1.63	3.27
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.13	0.05	0.13				0.31	0.19	0.50
Roll-Out Pipe	ft	8.58						0.13	8.71		8.71
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.17	0.07	0.40			0.01	0.65	0.52	1.17
IRRIGATE LABOR	hour				1.81			0.03	1.84		1.84
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.25	0.10	0.59			0.01	0.95	0.77	1.72
Land Forming (\$390)	each									31.93	31.93
Well & Pump, Furrow	each			2.44				0.04	2.48	7.21	9.69
Main Line Pipe	each									4.98	4.98
Engine, RPF, Corn	each									8.38	8.38
1st June Irrigation	ac-in		5.30	0.98				0.09	6.37		6.37
2nd June Irrigation	ac-in		5.30	0.98				0.09	6.37		6.37
3rd June Irrigation	ac-in		5.30	0.98				0.09	6.37		6.37
July Irrigation	ac-in		5.30	0.98				0.07	6.35		6.35
TOTALS		8.58	22.49	6.90	4.59	0.00		0.63	43.19	55.61	98.80

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 15. Estimated costs for field operations, per acre
 Contour levee rice flood irrigation system
 80-acre system, 33 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			TOTAL
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.01	0.46	0.46	
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.28	0.10	0.22		0.01	0.61	1.25	
Survey & Mark Levees	acre	4.50					0.10	4.60	4.60	
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.75	0.28	0.57		0.04	1.64	3.37	
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27		0.01	0.62	0.99	
IRRIGATE LABOR	hour				0.68		0.02	0.70	0.70	
Install Gates										
IRRIGATE LABOR	hour				2.72		0.06	2.78	2.78	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.15	6.95	6.95	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.13	6.93	6.93	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.10	6.90	6.90	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.08	6.88	6.88	
Remove Gates										
IRRIGATE LABOR	hour				0.91		0.01	0.92	0.92	
Tear Down Levees										
Levee Splitter (1/80)	32"		0.51	0.16	0.45		0.01	1.13	2.06	
Tear Down Levees										
Levee Splitter (1/80)	32"		0.19	0.06	0.17			0.42	0.76	
Land Forming (\$113)	each							8.02	8.02	
Levee Gates	each							0.55	0.55	
Well & Pump, Flood	each			4.88			0.09	4.97	19.38	
Engine, Rice CL, 75	each							16.75	16.75	
May Irrigation	ac-in		9.78	1.42			0.25	11.45	11.45	
June Irrigation	ac-in		14.66	2.13			0.31	17.10	17.10	
July Irrigation	ac-in		14.66	2.13			0.25	17.04	17.04	
August Irrigation	ac-in		14.66	2.13			0.19	16.98	16.98	
TOTALS		4.50	55.76	13.36	33.64	0.00	1.82	109.08	43.74	152.82

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 16. Estimated costs for field operations, per acre
 Straight levee rice flood irrigation system
 80-acre system, 27 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Survey & Mark Levees	acre	2.25						0.05	2.30	2.30
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.56	0.22	0.43			0.03	1.24	1.29
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27			0.01	0.62	0.37
IRRIGATE LABOR	hour				0.68			0.02	0.70	0.70
Install Gates										
IRRIGATE LABOR	hour				1.36			0.03	1.39	1.39
Apply Water										
IRRIGATE LABOR	hour				4.53			0.10	4.63	4.63
Apply Water										
IRRIGATE LABOR	hour				4.53			0.08	4.61	4.61
Apply Water										
IRRIGATE LABOR	hour				4.53			0.07	4.60	4.60
Apply Water										
IRRIGATE LABOR	hour				4.53			0.05	4.58	4.58
Remove Gates										
IRRIGATE LABOR	hour				0.91			0.01	0.92	0.92
Tear Down Levees										
Levee Splitter (1/80)	32"		0.39	0.12	0.33			0.01	0.85	0.70
Land Forming (\$390)	each								31.93	31.93
Levee Gates	each								0.55	0.55
Well & Pump, Flood	each			4.88				0.09	4.97	14.41
Engine, Rice SL, 75	each								16.75	16.75
May Irrigation	ac-in		9.78	1.74				0.26	11.78	11.78
June Irrigation	ac-in		11.40	2.03				0.25	13.68	13.68
July Irrigation	ac-in		11.40	2.03				0.20	13.63	13.63
August Irrigation	ac-in		11.40	2.03				0.15	13.58	13.58
TOTALS		2.25	45.20	13.12	22.55	0.00		1.42	84.54	66.00

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 17. Estimated costs for field operations, per acre
 Straight levee rice multi inlet flood irrigation system
 80-acre system, 23 ac-in., Delta Area, Mississippi, 2016

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Survey & Mark Levees	acre	2.25						0.05	2.30	2.30
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.56	0.22	0.43			0.03	1.24	1.29
Butt Levees										
Blade-Box	6'-7'		0.27	0.07	0.27			0.01	0.62	0.37
IRRIGATE LABOR	hour				0.68			0.02	0.70	0.70
Ditcher (1m/160a)			0.13	0.05	0.13			0.01	0.32	0.19
Roll-Out Pipe	ft	8.58						0.19	8.77	8.77
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.17	0.07	0.40			0.01	0.65	0.52
Install Gates										
IRRIGATE LABOR	hour				1.36			0.03	1.39	1.39
Apply Water										
IRRIGATE LABOR	hour				1.81			0.04	1.85	1.85
Apply Water										
IRRIGATE LABOR	hour				1.81			0.03	1.84	1.84
Apply Water										
IRRIGATE LABOR	hour				1.81			0.03	1.84	1.84
Apply Water										
IRRIGATE LABOR	hour				1.81			0.02	1.83	1.83
Remove Gates										
IRRIGATE LABOR	hour				0.45				0.45	0.45
Tear Down Levees										
Levee Splitter (1/80)	32"		0.39	0.12	0.33			0.01	0.85	0.70
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.08	0.03	0.19				0.30	0.25
Land Forming (\$390)	each									31.93
Levee Gates	each									0.27
Well & Pump, Flood	each			4.88				0.09	4.97	14.41
Engine, Mult In Rice	each									16.75
May Irrigation	ac-in		8.15	1.63				0.22	10.00	10.00
June Irrigation	ac-in		9.78	1.96				0.22	11.96	11.96
July Irrigation	ac-in		9.78	1.96				0.18	11.92	11.92
August Irrigation	ac-in		9.78	1.96				0.13	11.87	11.87
TOTALS		10.83	39.09	12.95	11.93	0.00	1.33		76.13	66.68

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 18. Estimated costs for field operations, per acre
 Straight levee rice - zero grade flood irrigation
 80-acre system, 19 ac-in., Delta Area, Mississippi, 2016

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		0.01	0.46	0.46	
Apply Water										
IRRIGATE LABOR	hour				2.27		0.05	2.32	2.32	
Apply Water										
IRRIGATE LABOR	hour				2.27		0.04	2.31	2.31	
Apply Water										
IRRIGATE LABOR	hour				2.27		0.03	2.30	2.30	
Apply Water										
IRRIGATE LABOR	hour				2.27		0.03	2.30	2.30	
Land Forming (\$390)	each							31.93	31.93	
Well & Pump, Flood	each			4.88			0.09	4.97	14.41	
Engine, Rice SL, 75	each							16.75	16.75	
May Irrigation	ac-in		6.52	1.16			0.17	7.85	7.85	
June Irrigation	ac-in		8.15	1.45			0.18	9.78	9.78	
July Irrigation	ac-in		8.15	1.45			0.14	9.74	9.74	
August Irrigation	ac-in		8.15	1.45			0.11	9.71	9.71	
TOTALS		0.00	30.97	10.39	9.53	0.00	0.85	51.74	63.09	114.83

Note: Cost of production estimates are based on 2015 input prices.

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