

**DELTA
2015
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2014-05**

October 2014

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 2015 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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2015 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 2014. (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 2014 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 near contract month. These average futures prices and the basis adjustments are presented in Appendix Table 7.

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	3.2500	15.44	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.0000	74.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.1134	13.98	_____
Self-Propelled	hour	12.55	0.3547	4.45	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.3062	2.78	_____
UNALLOCATED LABOR					
	hour	12.56	1.1745	14.76	_____
DIESEL FUEL					
Tractors	gal	3.20	10.8888	34.85	_____
Self-Propelled	gal	3.20	5.5165	17.66	_____
REPAIR & MAINTENANCE					
Implements	acre	10.84	1.0000	10.84	_____
Tractors	acre	5.83	1.0000	5.83	_____
Self-Propelled	acre	17.23	1.0000	17.23	_____
INTEREST ON OP. CAP.	acre	11.82	1.0000	11.82	_____
TOTAL DIRECT EXPENSES				683.54	_____
FIXED EXPENSES					
Implements	acre	17.41	1.0000	17.41	_____
Tractors	acre	35.42	1.0000	35.42	_____
Self-Propelled	acre	68.37	1.0000	68.37	_____
TOTAL FIXED EXPENSES				121.20	_____
TOTAL SPECIFIED EXPENSES				804.74	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 1.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	27.44	1.0000	27.44	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	109.40	1.0000	109.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	102.14	1.0000	102.14	_____
INSECTICIDES	acre	35.62	1.0000	35.62	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.7553	6.85	_____
OPERATOR LABOR	hour	12.55	1.4681	18.43	_____
UNALLOCATED LABOR	hour	12.56	1.1745	14.76	_____
DIESEL FUEL	gal	3.20	16.4054	52.51	_____
REPAIR & MAINTENANCE	acre	33.90	1.0000	33.90	_____
INTEREST ON OP. CAP.	acre	11.82	1.0000	11.82	_____

TOTAL DIRECT EXPENSES				683.54	_____
RETURNS ABOVE DIRECT EXPENSES				45.91	_____

TOTAL FIXED EXPENSES				121.20	_____

TOTAL SPECIFIED EXPENSES				804.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-75.29	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 1.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	8R-38	MFWD 190	0.080	Nov		0.08	0.08	0.08	0.06
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	0.074	0.50	Mar		0.03	0.03	0.03	0.02
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
Fert Appl (Liquid)	8R-38	MFWD 190	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	Apr			0.01	0.02	0.01
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190	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	May			0.01	0.02	0.01
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp			0.017	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp			0.017	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	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					12.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 190	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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp			0.017	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)			0.257	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(350)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(350)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.46	1.11	2.22	1.17

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 1.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Bed-Paratill Fold	8R-38		2.53	2.01	1.82			0.28	6.64	5.21	11.85
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Clarity	pt	5.94						0.17	6.11		6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bed/Disk (Hipper)Rd	8R-38		1.16	0.37	0.84			0.07	2.44	1.65	4.09
Custom Apply Fert	acre	6.50						0.19	6.69		6.69
Potash (60% K2O)	cwt	35.40						1.04	36.44		36.44
Fert Appl (Liquid)	8R-38		2.43	1.31	2.10			0.15	5.99	3.45	9.44
UAN (32% N)	cwt	37.00						0.95	37.95		37.95
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75		15.75
Reflex 2LC	pt	7.04						0.18	7.22		7.22
Row Cond Rigid	26'		1.87	0.50	1.35			0.08	3.80	2.68	6.48
Plant & Pre-Rigid	8R-38		2.51	1.55	2.55			0.15	6.76	4.64	11.40
Cotton Seed B2RF	thous	33.30						0.73	34.03		34.03
B2RF Cot Tech Fee	thous	67.05						1.48	68.53		68.53
Cotton Seed Trt.	acre	20.00						0.44	20.44		20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47		10.47
Cotoran 4L	pt	11.96						0.26	12.22		12.22
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Dual Magnum	pt	13.49						0.30	13.79		13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	1.51						0.03	1.54		1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Dual Magnum	pt	13.49						0.30	13.79		13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Centric 40WG	oz	9.66						0.18	9.84		9.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Fert Appl (Liquid)	8R-38		2.43	1.31	2.10			0.11	5.95	3.45	9.40
UAN (32% N)	cwt	37.00						0.68	37.68		37.68
Spray (Direct/Layby)	8R-38		2.09	0.73	1.81			0.07	4.70	2.57	7.27
Diuron 4L	pt	6.70						0.10	6.80		6.80
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Acephate 90%	lb	3.78						0.06	3.84		3.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
App by Air (3 gal)	appl	1.19						0.02	1.21		1.21
Karate Z	oz	1.43						0.02	1.45		1.45
Bidrin 8WM	oz	2.08						0.03	2.11		2.11
Incidental Pest											
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Incidental Pest Trt	acre	12.00						0.18	12.18		12.18
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Acephate 90%	lb	5.16						0.06	5.22		5.22
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02		3.02
Ethephon 6E	pt	4.35						0.03	4.38		4.38
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Tribufos 6lb	pt	4.57						0.03	4.60		4.60
Cotton Picker	4R-38(350)		14.86	16.35	8.17			0.14	39.52	62.60	102.12
Boll Buggy	4R-38(350)		8.07	3.32	5.83			0.06	17.28	12.06	29.34
Module Builder	4R-38(350)		8.07	3.59	8.17			0.07	19.90	12.58	32.48
Gen & Haul	lb	99.00						0.36	99.36		99.36
Stalk Shredder	14'		3.69	1.98	2.66			0.03	8.36	4.54	12.90
TOTALS		545.27	52.51	33.90	40.04	0.00	11.82	683.54	121.20	804.74	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 1.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	10.69	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	37.00	0.00	37.00	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	10.42	22.40	58.14	0.00	11.18	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	19.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	33.30	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.82	0.00	0.00	0.00	0.84	2.58	5.34	2.58	1.81	0.00	0.24	24.83
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	2.53	0.00	0.00	0.00	1.16	2.94	5.91	2.94	2.09	0.00	0.25	34.69
REPAIR & MAINTENANCE	2.01	0.00	0.00	0.00	0.37	1.47	2.53	1.47	0.73	0.00	0.08	25.24
INTEREST ON OP. CAP.	1.27	0.00	0.00	0.00	1.78	1.70	4.46	1.01	0.71	0.11	0.12	0.66
TOTAL DIRECT EXPENSES	30.13	0.00	0.00	0.00	62.47	68.09	206.24	55.86	47.70	10.02	18.61	184.42
NET INCOME	-30.13	0.00	0.00	0.00	-62.47	-68.09	-206.24	-55.86	-47.70	-10.02	-18.61	545.03
NET INCOME TO DATE	-30.13	-30.13	-30.13	-30.13	-92.60	-160.69	-366.93	-422.79	-470.49	-480.51	-499.12	45.91

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-264 -386	-250 -371	-236 -357	-221 -342	-207 -328	-192 -314	-178 -299	-164 -285	-149 -270	-135 -256	-120 -241
60	540.00	lb	-231 -352	-214 -335	-197 -318	-179 -300	-162 -283	-145 -266	-127 -248	-110 -231	-93 -214	-75 -197	-58 -179
70	630.00	lb	-198 -319	-178 -299	-157 -279	-137 -258	-117 -238	-97 -218	-77 -198	-56 -178	-36 -157	-16 -137	3 -117
80	720.00	lb	-164 -286	-141 -263	-118 -240	-95 -216	-72 -193	-49 -170	-26 -147	-3 -124	19 -101	42 -78	65 -55
90	810.00	lb	-131 -252	-105 -226	-79 -200	-53 -174	-27 -149	-1 -123	24 -97	50 -71	76 -45	101 -19	127 6
100	900.00	lb	-98 -219	-69 -190	-40 -161	-11 -132	17 -104	45 -75	74 -46	103 -17	132 11	161 40	190 68
110	990.00	lb	-64 -186	-33 -154	-1 -122	30 -90	61 -59	93 -27	125 4	157 35	188 67	220 99	252 131
120	1080.00	lb	-31 -152	2 -118	37 -83	72 -49	106 -14	141 20	176 54	210 89	245 124	279 158	314 193
130	1170.00	lb	1 -119	39 -82	76 -44	114 -7	151 30	189 67	226 105	264 142	301 180	339 217	376 255
140	1260.00	lb	35 -86	75 -45	115 -5	156 34	196 75	236 115	277 156	317 196	358 236	398 277	438 317
150	1350.00	lb	68 -52	111 -9	154 33	198 76	241 120	284 163	327 206	371 250	414 293	457 336	501 379

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 2014 input prices.

Table 2.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	3.2500	15.44	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
**Amm Nitrate (34% N	cwt	22.50	2.0000	45.00	_____
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	2.0000	37.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.9212	11.57	_____
Self-Propelled	hour	12.55	0.3547	4.45	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.3062	2.78	_____
UNALLOCATED LABOR					
	hour	12.56	1.0208	12.83	_____
DIESEL FUEL					
Tractors	gal	3.20	9.0100	28.84	_____
Self-Propelled	gal	3.20	5.5165	17.66	_____
REPAIR & MAINTENANCE					
Implements	acre	8.29	1.0000	8.29	_____
Tractors	acre	4.83	1.0000	4.83	_____
Self-Propelled	acre	17.23	1.0000	17.23	_____
INTEREST ON OP. CAP.	acre	11.73	1.0000	11.73	_____
TOTAL DIRECT EXPENSES				677.23	_____
FIXED EXPENSES					
Implements	acre	13.53	1.0000	13.53	_____
Tractors	acre	29.31	1.0000	29.31	_____
Self-Propelled	acre	68.37	1.0000	68.37	_____
TOTAL FIXED EXPENSES				111.21	_____
TOTAL SPECIFIED EXPENSES				788.44	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	27.44	1.0000	27.44	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	117.40	1.0000	117.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	102.14	1.0000	102.14	_____
INSECTICIDES	acre	35.62	1.0000	35.62	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.7199	6.53	_____
OPERATOR LABOR	hour	12.55	1.2760	16.02	_____
UNALLOCATED LABOR	hour	12.56	1.0208	12.83	_____
DIESEL FUEL	gal	3.20	14.5266	46.50	_____
REPAIR & MAINTENANCE	acre	30.35	1.0000	30.35	_____
INTEREST ON OP. CAP.	acre	11.73	1.0000	11.73	_____

TOTAL DIRECT EXPENSES				677.23	_____
RETURNS ABOVE DIRECT EXPENSES				52.22	_____

TOTAL FIXED EXPENSES				111.21	_____

TOTAL SPECIFIED EXPENSES				788.44	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-58.99	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Custom Apply Fert	acre			1.00	Mar	1.0000				
**Amm Nitrate (34% N	cwt					2.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant&Pre-Rigid	8R-38	MFWD 190	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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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					0.2200				
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					12.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 190	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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
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 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(350)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.27	0.92	1.99	1.02

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 2.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	22.50						0.99	23.49	23.49
App by Air (5 gal)	appl	6.00						0.18	6.18	6.18
Clarity	pt	5.94						0.17	6.11	6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Custom Apply Fert	acre	6.50						0.19	6.69	6.69
**Amm Nitrate (34% N	cwt	45.00						1.32	46.32	46.32
Potash (60% K2O)	cwt	35.40						1.04	36.44	36.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75	15.75
Reflex 2LC	pt	7.04						0.18	7.22	7.22
Row Cond Rigid	26'		1.87	0.50	1.35			0.08	3.80	2.68 6.48
NT Plant&Pre-Rigid	8R-38		2.62	1.69	2.65			0.15	7.11	4.96 12.07
Cotton Seed B2RF	thous	33.30						0.73	34.03	34.03
B2RF Cot Tech Fee	thous	67.05						1.48	68.53	68.53
Cotton Seed Trt.	acre	20.00						0.44	20.44	20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47	10.47
Cotoran 4L	pt	11.96						0.26	12.22	12.22
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Acephate 90%	lb	1.51						0.03	1.54	1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05 2.22
Centric 40WG	oz	9.66						0.18	9.84	9.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
Fert Appl (Liquid)	8R-38		2.43	1.31	2.10			0.11	5.95	3.45 9.40
UAN (32% N)	cwt	37.00						0.68	37.68	37.68
Spray (Direct/Layby)	8R-38		2.09	0.73	1.81			0.08	4.71	2.57 7.28
Diuron 4L	pt	6.70						0.12	6.82	6.82
Glyphosate 3lbs a.e	oz	4.48						0.08	4.56	4.56
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Acephate 90%	lb	3.78						0.06	3.84	3.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
App by Air (3 gal)	appl	1.19						0.02	1.21	1.21
Karate Z	oz	1.43						0.02	1.45	1.45
Bidrin 8WM	oz	2.08						0.03	2.11	2.11
Incidental Pest										
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Incidental Pest Trt	acre	12.00						0.18	12.18	12.18
App by Air (3 gal)	appl	4.75						0.05	4.80	4.80
Acephate 90%	lb	5.16						0.06	5.22	5.22
App by Air (5 gal)	appl	6.00						0.04	6.04	6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02	3.02
Ethephon 6E	pt	4.35						0.03	4.38	4.38
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52 1.09
Tribufos 6lb	pt	4.57						0.03	4.60	4.60
Cotton Picker	4R-38(350)		14.86	16.35	8.17			0.14	39.52	62.60 102.12
Boll Buggy	4R-38(350)		8.07	3.32	5.83			0.06	17.28	12.06 29.34
Module Builder	4R-38(350)		8.07	3.59	8.17			0.07	19.90	12.58 32.48
Gin & Haul	lb	99.00						0.36	99.36	99.36
Stalk Shredder	14'		3.69	1.98	2.66			0.03	8.36	4.54 12.90
TOTALS		553.27	46.50	30.35	35.38	0.00	11.73	677.23	111.21	788.44

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 2.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	10.69	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	80.40	0.00	0.00	37.00	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	10.42	22.40	58.14	11.18	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	19.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	33.30	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	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	0.48	5.44	4.39	0.00	0.00	0.24	24.83
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	0.51	6.02	5.03	0.00	0.00	0.25	34.69
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.16	2.67	2.20	0.00	0.00	0.08	25.24
INTEREST ON OP. CAP.	0.99	0.00	0.00	0.00	3.03	0.60	4.46	1.29	0.47	0.11	0.12	0.66
TOTAL DIRECT EXPENSES	23.49	0.00	0.00	0.00	106.35	24.15	206.59	71.95	31.65	10.02	18.61	184.42
NET INCOME	-23.49	0.00	0.00	0.00	-106.35	-24.15	-206.59	-71.95	-31.65	-10.02	-18.61	545.03
NET INCOME TO DATE	-23.49	-23.49	-23.49	-23.49	-129.84	-153.99	-360.58	-432.53	-464.18	-474.20	-492.81	52.22

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE										
-----			0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-258	-244	-229	-215	-200	-186	-172	-157	-143	-128	-114
			-369	-355	-341	-326	-312	-297	-283	-268	-254	-240	-225
60	540.00	lb	-225	-208	-190	-173	-156	-138	-121	-104	-86	-69	-52
			-336	-319	-301	-284	-267	-250	-232	-215	-198	-180	-163
70	630.00	lb	-192	-171	-151	-131	-111	-91	-70	-50	-30	-10	9
			-303	-283	-262	-242	-222	-202	-182	-161	-141	-121	-101
80	720.00	lb	-158	-135	-112	-89	-66	-43	-20	2	25	49	72
			-269	-246	-223	-200	-177	-154	-131	-108	-85	-62	-39
90	810.00	lb	-125	-99	-73	-47	-21	4	30	56	82	108	134
			-236	-210	-184	-158	-132	-106	-80	-54	-28	-2	23
100	900.00	lb	-92	-63	-34	-5	23	52	81	109	138	167	196
			-203	-174	-145	-116	-87	-58	-30	-1	27	56	85
110	990.00	lb	-58	-26	4	36	68	99	131	163	195	226	258
			-169	-138	-106	-74	-42	-11	20	52	83	115	147
120	1080.00	lb	-25	9	43	78	113	147	182	216	251	286	320
			-136	-101	-67	-32	1	36	71	105	140	174	209
130	1170.00	lb	7	45	82	120	157	195	232	270	307	345	382
			-103	-65	-28	9	46	84	121	159	196	234	271
140	1260.00	lb	41	81	122	162	202	243	283	324	364	404	445
			-69	-29	10	51	91	132	172	212	253	293	333
150	1350.00	lb	74	117	161	204	247	290	334	377	420	464	507
			-36	6	49	93	136	179	223	266	309	352	396

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 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	3.2500	15.44	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.3500	31.86	_____
UAN (32% N)	cwt	18.50	3.6000	66.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	106.8800	14.96	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	1.6700	22.53	_____
Diuron 4L	pt	4.19	1.1000	4.61	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	1.3400	6.47	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	30.0000	22.20	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	30.0000	44.70	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	20.0000	2.00	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.8722	10.94	_____
Self-Propelled	hour	12.55	0.2340	2.93	_____
HAND LABOR					
Implements	hour	9.06	0.3442	3.10	_____
Self-Propelled	hour	9.06	0.2031	1.84	_____
UNALLOCATED LABOR					
	hour	12.57	0.8849	11.13	_____
DIESEL FUEL					
Tractors	gal	3.20	8.5299	27.28	_____
Self-Propelled	gal	3.20	3.6595	11.71	_____
REPAIR & MAINTENANCE					
Implements	acre	9.74	1.0000	9.74	_____
Tractors	acre	4.55	1.0000	4.55	_____
Self-Propelled	acre	11.68	1.0000	11.68	_____
INTEREST ON OP. CAP.	acre	10.09	1.0000	10.09	_____
TOTAL DIRECT EXPENSES				576.39	_____
FIXED EXPENSES					
Implements	acre	15.51	1.0000	15.51	_____
Tractors	acre	27.74	1.0000	27.74	_____
Self-Propelled	acre	46.24	1.0000	46.24	_____
TOTAL FIXED EXPENSES				89.49	_____
TOTAL SPECIFIED EXPENSES				665.88	_____

Note: Cost of production estimates are based on 2014 input prices
Fertilization decisions should be based on soil tests.

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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	811.0000	519.85	_____
Cotton Seed	lb	0.11	1217.0000	137.52	_____

TOTAL INCOME				657.37	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	27.44	1.0000	27.44	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	98.46	1.0000	98.46	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	92.64	1.0000	92.64	_____
INSECTICIDES	acre	32.43	1.0000	32.43	_____
SEED/PLANTS	acre	22.20	1.0000	22.20	_____
TECHNOLOGY FEE	acre	44.70	1.0000	44.70	_____
GROWTH REGULATORS	acre	2.00	1.0000	2.00	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.5473	4.94	_____
OPERATOR LABOR	hour	12.55	1.1062	13.87	_____
UNALLOCATED LABOR	hour	12.57	0.8849	11.13	_____
DIESEL FUEL	gal	3.20	12.1895	38.99	_____
REPAIR & MAINTENANCE	acre	25.97	1.0000	25.97	_____
INTEREST ON OP. CAP.	acre	10.09	1.0000	10.09	_____

TOTAL DIRECT EXPENSES				576.39	_____
RETURNS ABOVE DIRECT EXPENSES				80.98	_____

TOTAL FIXED EXPENSES				89.49	_____

TOTAL SPECIFIED EXPENSES				665.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-8.51	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	8R-38 2x1	MFWD 190	0.053	Nov		0.05	0.05	0.05	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.3500				
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	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	Apr			0.01	0.02	0.01
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
Row Cond Folding	38'	MFWD 190	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	8R-38 2x1	MFWD 190	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	May			0.01	0.02	0.01
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 190	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					0.2200				
Sprayer 600-750gal	60' 175hp			0.017	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 190	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					8.0000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					1.8000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 190	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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp			0.017	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1 (350)			0.172	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1 (350)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.10	0.87	1.65	0.88

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Bed-Paratill Fold	8R-38 2x1		1.68	1.62	1.21			0.20	4.71	3.95	8.66
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Clarity	pt	5.94						0.17	6.11		6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bed/Disk (Hipper)	8R-38 2x1		0.77	0.33	0.56			0.05	1.71	1.28	2.99
Custom Apply Fert	acre	6.50						0.19	6.69		6.69
Potash (60% K2O)	cwt	31.86						0.93	32.79		32.79
Fert Appl (Liquid)	8R-38 2x1		1.62	0.85	1.40			0.10	3.97	2.27	6.24
UAN (32% N)	cwt	33.30						0.85	34.15		34.15
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75		15.75
Reflex 2LC	pt	7.04						0.18	7.22		7.22
Row Cond Folding	38'		1.28	0.50	0.92			0.06	2.76	2.47	5.23
Plant & Pre-Folding	8R-38 2x1		1.67	1.84	1.69			0.11	5.31	4.57	9.88
Cotton Seed B2RF	thous	22.20						0.49	22.69		22.69
B2RF Cot Tech Fee	thous	44.70						0.98	45.68		45.68
Cotton Seed Trt.	acre	13.40						0.29	13.69		13.69
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47		10.47
Cotoran 4L	pt	11.96						0.26	12.22		12.22
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	1.00						0.02	1.02		1.02
Spray (Direct/Layby)	8R-38 2x1		1.39	0.57	1.21			0.07	3.24	1.81	5.05
Dual Magnum	pt	9.04						0.20	9.24		9.24
Glyphosate 3lbs a.e	oz	3.00						0.07	3.07		3.07
Acephate 90%	lb	1.51						0.03	1.54		1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Dual Magnum	pt	13.49						0.30	13.79		13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Spray (Direct/Layby)	8R-38 2x1		1.39	0.57	1.21			0.06	3.23	1.81	5.04
Centric 40WG	oz	6.47						0.12	6.59		6.59
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Fert Appl (Liquid)	8R-38 2x1		1.62	0.85	1.40			0.07	3.94	2.27	6.21
UAN (32% N)	cwt	33.30						0.61	33.91		33.91
Spray (Direct/Layby)	8R-38 2x1		1.39	0.57	1.21			0.05	3.22	1.81	5.03
Diuron 4L	pt	4.61						0.07	4.68		4.68
Glyphosate 3lbs a.e	oz	3.00						0.04	3.04		3.04
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Acephate 90%	lb	3.78						0.06	3.84		3.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
App by Air (3 gal)	appl	1.19						0.02	1.21		1.21
Karate Z	oz	1.43						0.02	1.45		1.45
Bidrin 8WM	oz	2.08						0.03	2.11		2.11
Incidental Pest											
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Incidental Pest Trt	acre	12.00						0.18	12.18		12.18
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Acephate 90%	lb	5.16						0.06	5.22		5.22
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02		3.02
Ethephon 6E	pt	4.35						0.03	4.38		4.38
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Tribufos 6lb	pt	4.57						0.03	4.60		4.60
Cotton Picker	4R2x1(350)		9.93	11.12	5.45			0.10	26.60	42.57	69.17
Boll Buggy	4R2x1(350)		5.39	2.22	3.89			0.04	11.54	8.06	19.60
Module Builder	4R2x1(350)		5.39	2.39	5.45			0.05	13.28	8.41	21.69
Gin & Haul	lb	89.21						0.33	89.54		89.54
Stalk Shredder	14'		3.69	1.98	2.66			0.03	8.36	4.54	12.90
TOTALS		471.40	38.99	25.97	29.94	0.00	10.09	576.39	89.49	665.88	

Note: Cost of production estimates are based on 2014 input prices.

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, 2015

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	657.37
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	10.69	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	31.86	33.30	0.00	33.30	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	10.42	22.40	52.21	0.00	7.61	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	6.47	19.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	22.20	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	0.80	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.21	0.00	0.00	0.00	0.56	1.88	4.78	2.61	1.21	0.00	0.24	17.45
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	1.68	0.00	0.00	0.00	0.77	2.13	5.36	3.01	1.39	0.00	0.25	24.40
REPAIR & MAINTENANCE	1.62	0.00	0.00	0.00	0.33	1.01	3.23	1.42	0.57	0.00	0.08	17.71
INTEREST ON OP. CAP.	1.19	0.00	0.00	0.00	1.65	1.55	3.42	0.87	0.63	0.11	0.12	0.55
TOTAL DIRECT EXPENSES	28.20	0.00	0.00	0.00	58.09	62.27	158.81	48.48	42.59	10.02	18.61	149.32
NET INCOME	-28.20	0.00	0.00	0.00	-58.09	-62.27	-158.81	-48.48	-42.59	-10.02	-18.61	508.05
NET INCOME TO DATE	-28.20	-28.20	-28.20	-28.20	-86.29	-148.56	-307.37	-355.85	-398.44	-408.46	-427.07	80.98

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

* 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, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-199	-186	-173	-160	-147	-134	-121	-108	-95	-82	-69
			-288	-275	-262	-249	-236	-223	-210	-197	-184	-171	-158
60	486.60	lb	-169	-153	-137	-122	-106	-91	-75	-59	-44	-28	-13
			-258	-243	-227	-211	-196	-180	-165	-149	-133	-118	-102
70	567.70	lb	-139	-120	-102	-84	-66	-48	-29	-11	6	24	42
			-228	-210	-192	-173	-155	-137	-119	-101	-83	-64	-46
80	648.80	lb	-109	-88	-67	-46	-25	-5	15	36	57	78	98
			-198	-177	-156	-136	-115	-94	-73	-52	-32	-11	9
90	729.90	lb	-79	-55	-32	-8	14	37	61	84	108	131	154
			-168	-145	-121	-98	-74	-51	-28	-4	18	42	65
100	811.00	lb	-48	-22	3	28	54	80	106	132	158	184	210
			-138	-112	-86	-60	-34	-8	17	43	69	95	121
110	892.10	lb	-18	9	38	66	95	124	152	181	209	238	266
			-108	-79	-51	-22	5	34	63	91	120	148	177
120	973.20	lb	11	42	73	104	135	167	198	229	260	291	322
			-78	-47	-16	15	46	77	108	139	171	202	233
130	1054.30	lb	41	74	108	142	176	210	243	277	311	345	379
			-48	-14	19	53	86	120	154	188	221	255	289
140	1135.40	lb	71	107	143	180	216	253	289	325	362	398	435
			-18	18	54	90	127	163	200	236	272	309	345
150	1216.50	lb	101	140	179	218	257	296	335	374	413	452	491
			11	50	89	128	167	206	245	284	323	362	401

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 2014 input prices.

Table 4.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	5.5000	26.13	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.0000	74.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Gramonone SL 2.0	oz	0.32	32.0000	10.24	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	1.0000	13.49	_____
Liberty 280	oz	0.66	58.0000	38.28	_____
Valor SX	oz	6.15	2.0000	12.30	_____
MSMA 6.6	pt	3.50	2.7500	9.63	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	6.0000	17.10	_____
Bidrin 8WM	oz	1.04	8.0000	8.32	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed LLB2	thous	1.19	45.0000	53.55	_____
TECHNOLOGY FEE					
B2 Cot Tech Fee	thous	0.76	45.0000	34.20	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.1134	13.98	_____
Self-Propelled	hour	12.55	0.3194	4.01	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.2886	2.62	_____
UNALLOCATED LABOR					
	hour	12.56	1.1463	14.40	_____
DIESEL FUEL					
Tractors	gal	3.20	10.8888	34.85	_____
Self-Propelled	gal	3.20	5.1992	16.64	_____
REPAIR & MAINTENANCE					
Implements	acre	10.84	1.0000	10.84	_____
Tractors	acre	5.83	1.0000	5.83	_____
Self-Propelled	acre	16.91	1.0000	16.91	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____
TOTAL DIRECT EXPENSES				699.26	_____
FIXED EXPENSES					
Implements	acre	17.41	1.0000	17.41	_____
Tractors	acre	35.42	1.0000	35.42	_____
Self-Propelled	acre	66.27	1.0000	66.27	_____
TOTAL FIXED EXPENSES				119.10	_____
TOTAL SPECIFIED EXPENSES				818.36	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 4.B Summary of estimated costs and returns per acre
Cotton, 8R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	38.13	1.0000	38.13	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	109.40	1.0000	109.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	106.32	1.0000	106.32	_____
INSECTICIDES	acre	51.53	1.0000	51.53	_____
SEED/PLANTS	acre	53.55	1.0000	53.55	_____
TECHNOLOGY FEE	acre	34.20	1.0000	34.20	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.7377	6.69	_____
OPERATOR LABOR	hour	12.55	1.4328	17.99	_____
UNALLOCATED LABOR	hour	12.56	1.1463	14.40	_____
DIESEL FUEL	gal	3.20	16.0881	51.49	_____
REPAIR & MAINTENANCE	acre	33.58	1.0000	33.58	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____

TOTAL DIRECT EXPENSES				699.26	_____
RETURNS ABOVE DIRECT EXPENSES				30.19	_____

TOTAL FIXED EXPENSES				119.10	_____

TOTAL SPECIFIED EXPENSES				818.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-88.91	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	8R-38	MFWD 190	0.080	Nov		0.08	0.08	0.08	0.06
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	0.074	0.50	Mar		0.03	0.03	0.03	0.02
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed LLB2	thous					45.0000				
B2 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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2200				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					12.0000				
Liberty 280	oz					29.0000				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Valor SX	oz					2.0000				
MSMA 6.6	pt					2.7500				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Mepiquat Chloride	oz					12.0000				
Acephate 90%	lb					0.5500				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Bidrin 8WM	oz					8.0000				
Incidental Pest				0.50	Jul					
App by Air (3 gal)	appl					0.5000				
Incidental Pest Trt	acre					0.5000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Karate Z	oz					2.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
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 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38 (350)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.43	1.11	2.17	1.14

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 4.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Bed-Paratill Fold	8R-38		2.53	2.01	1.82			0.28	6.64	5.21	11.85
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Clarity	pt	5.94						0.17	6.11		6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bed/Disk (Hipper)Rd	8R-38		1.16	0.37	0.84			0.07	2.44	1.65	4.09
Custom Apply Fert	acre	6.50						0.19	6.69		6.69
Potash (60% K2O)	cwt	35.40						1.04	36.44		36.44
Fert Appl (Liquid)	8R-38		2.43	1.31	2.10			0.15	5.99	3.45	9.44
UAN (32% N)	cwt	37.00						0.95	37.95		37.95
Row Cond Rigid	26'		1.87	0.50	1.35			0.08	3.80	2.68	6.48
Plant & Pre-Rigid	8R-38		2.51	1.55	2.55			0.15	6.76	4.64	11.40
Cotton Seed LLB2	thous	53.55						1.18	54.73		54.73
B2 Cot Tech Fee	thous	34.20						0.75	34.95		34.95
Cotton Seed Trt.	acre	20.00						0.44	20.44		20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47		10.47
Cotoran 4L	pt	11.96						0.26	12.22		12.22
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Dual Magnum	pt	13.49						0.30	13.79		13.79
Liberty 280	oz	19.14						0.42	19.56		19.56
Acephate 90%	lb	1.51						0.03	1.54		1.54
Fert Appl (Liquid)	8R-38		2.43	1.31	2.10			0.11	5.95	3.45	9.40
UAN (32% N)	cwt	37.00						0.68	37.68		37.68
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Centric 40WG	oz	9.66						0.18	9.84		9.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Liberty 280	oz	19.14						0.35	19.49		19.49
Spray (Direct/Layby)	8R-38		2.09	0.73	1.81			0.07	4.70	2.57	7.27
Valor SX	oz	12.30						0.18	12.48		12.48
MSMA 6.6	pt	9.63						0.14	9.77		9.77
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Acephate 90%	lb	3.78						0.06	3.84		3.84
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Karate Z	oz	5.70						0.08	5.78		5.78
Bidrin 8WM	oz	8.32						0.12	8.44		8.44
Incidental Pest											
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Incidental Pest Trt	acre	6.00						0.09	6.09		6.09
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Karate Z	oz	5.70						0.08	5.78		5.78
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Acephate 90%	lb	5.16						0.06	5.22		5.22
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Karate Z	oz	5.70						0.06	5.76		5.76
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02		3.02
Ethephon 6E	pt	4.35						0.03	4.38		4.38
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Tribufos 6lb	pt	4.57						0.03	4.60		4.60
Cotton Picker	4R-38(350)		14.86	16.35	8.17			0.14	39.52	62.60	102.12
Boll Buggy	4R-38(350)		8.07	3.32	5.83			0.06	17.28	12.06	29.34
Module Builder	4R-38(350)		8.07	3.59	8.17			0.07	19.90	12.58	32.48
Gin & Haul	lb	99.00						0.36	99.36		99.36
Stalk Shredder	14'		3.69	1.98	2.66			0.03	8.36	4.54	12.90
TOTALS		563.45	51.49	33.58	39.08	0.00	11.66	699.26	119.10	818.36	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 4.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	16.63	9.50	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	37.00	0.00	37.00	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	10.42	0.00	54.83	19.14	21.93	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	29.50	10.86	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.55	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	34.20	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.82	0.00	0.00	0.00	0.84	2.10	4.86	2.58	1.81	0.00	0.24	24.83
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	2.53	0.00	0.00	0.00	1.16	2.43	5.40	2.94	2.09	0.00	0.25	34.69
REPAIR & MAINTENANCE	2.01	0.00	0.00	0.00	0.37	1.31	2.37	1.47	0.73	0.00	0.08	25.24
INTEREST ON OP. CAP.	1.27	0.00	0.00	0.00	1.78	1.10	4.07	1.36	1.08	0.22	0.12	0.66
TOTAL DIRECT EXPENSES	30.13	0.00	0.00	0.00	62.47	43.94	188.79	75.35	74.97	20.58	18.61	184.42
NET INCOME	-30.13	0.00	0.00	0.00	-62.47	-43.94	-188.79	-75.35	-74.97	-20.58	-18.61	545.03
NET INCOME TO DATE	-30.13	-30.13	-30.13	-30.13	-92.60	-136.54	-325.33	-400.68	-475.65	-496.23	-514.84	30.19

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
	PRODUCT PRICE													
Cotton Lint	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80			
PERCENT	YIELD	UNIT	dollars											
50	450.00	lb	-280 -399	-266 -385	-251 -370	-237 -356	-223 -342	-208 -327	-194 -313	-179 -298	-165 -284	-150 -269	-136 -255	
60	540.00	lb	-247 -366	-230 -349	-212 -331	-195 -314	-178 -297	-160 -279	-143 -262	-126 -245	-108 -228	-91 -210	-74 -193	
70	630.00	lb	-214 -333	-193 -312	-173 -292	-153 -272	-133 -252	-113 -232	-92 -211	-72 -191	-52 -171	-32 -151	-12 -131	
80	720.00	lb	-180 -299	-157 -276	-134 -253	-111 -230	-88 -207	-65 -184	-42 -161	-19 -138	3 -115	26 -92	50 -69	
90	810.00	lb	-147 -266	-121 -240	-95 -214	-69 -188	-43 -162	-17 -136	8 -110	34 -84	60 -58	86 -32	112 -6	
100	900.00	lb	-114 -233	-85 -204	-56 -175	-27 -146	1 -117	30 -88	59 -60	87 -31	116 -2	145 26	174 55	
110	990.00	lb	-80 -199	-48 -168	-17 -136	14 -104	46 -72	77 -41	109 -9	141 22	173 54	204 85	236 117	
120	1080.00	lb	-47 -166	-12 -131	21 -97	56 -62	91 -28	125 6	160 41	194 75	229 110	264 145	298 179	
130	1170.00	lb	-14 -133	23 -95	60 -58	98 -20	135 16	173 54	210 91	248 129	285 166	323 204	360 241	
140	1260.00	lb	19 -99	59 -59	100 -19	140 21	180 61	221 102	261 142	301 182	342 223	382 263	423 304	
150	1350.00	lb	52 -66	95 -23	139 20	182 63	225 106	268 149	312 193	355 236	398 279	442 322	485 366	

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 2014 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	3.2500	15.44	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.0000	74.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.7477	9.38	_____
Self-Propelled	hour	12.55	0.2545	3.19	_____
HAND LABOR					
Implements	hour	9.06	0.2997	2.70	_____
Self-Propelled	hour	9.06	0.2134	1.93	_____
UNALLOCATED LABOR					
	hour	12.58	0.8018	10.09	_____
DIESEL FUEL					
Tractors	gal	3.20	8.6602	27.72	_____
Self-Propelled	gal	3.20	3.9988	12.81	_____
REPAIR & MAINTENANCE					
Implements	acre	9.76	1.0000	9.76	_____
Tractors	acre	5.29	1.0000	5.29	_____
Self-Propelled	acre	13.75	1.0000	13.75	_____
INTEREST ON OP. CAP.	acre	11.53	1.0000	11.53	_____
TOTAL DIRECT EXPENSES				-----	_____
				653.42	_____
FIXED EXPENSES					
Implements	acre	15.19	1.0000	15.19	_____
Tractors	acre	32.20	1.0000	32.20	_____
Self-Propelled	acre	54.96	1.0000	54.96	_____
TOTAL FIXED EXPENSES				-----	_____
				102.35	_____
TOTAL SPECIFIED EXPENSES				-----	_____
				755.77	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 5.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	27.44	1.0000	27.44	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	109.40	1.0000	109.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	102.14	1.0000	102.14	_____
INSECTICIDES	acre	35.62	1.0000	35.62	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.5131	4.63	_____
OPERATOR LABOR	hour	12.55	1.0023	12.57	_____
UNALLOCATED LABOR	hour	12.58	0.8018	10.09	_____
DIESEL FUEL	gal	3.20	12.6591	40.53	_____
REPAIR & MAINTENANCE	acre	28.80	1.0000	28.80	_____
INTEREST ON OP. CAP.	acre	11.53	1.0000	11.53	_____

TOTAL DIRECT EXPENSES				653.42	_____
RETURNS ABOVE DIRECT EXPENSES				76.03	_____

TOTAL FIXED EXPENSES				102.35	_____

TOTAL SPECIFIED EXPENSES				755.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-26.32	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 5.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
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
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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					0.2200				
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					12.0000				
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				
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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp			0.011	0.50	Sep		0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)			0.172	1.00	Oct		0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	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							1.00	0.74	1.51	0.80

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 5.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	22.50						0.99	23.49	23.49
Bed-Paratill Fold	12R-38		1.99	1.72	1.21			0.22	5.14	4.55 9.69
App by Air (5 gal)	appl	6.00						0.18	6.18	6.18
Clarity	pt	5.94						0.17	6.11	6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Bed/Disk (Hipper)	12R-38		0.91	0.37	0.56			0.05	1.89	1.56 3.45
Custom Apply Fert	acre	6.50						0.19	6.69	6.69
Potash (60% K20)	cwt	35.40						1.04	36.44	36.44
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.11	4.44	2.92 7.36
UAN (32% N)	cwt	37.00						0.95	37.95	37.95
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75	15.75
Reflex 2LC	pt	7.04						0.18	7.22	7.22
Row Cond Folding	38'		1.51	0.58	0.92			0.07	3.08	2.93 6.01
Plant & Pre-Folding	12R-38		1.98	1.94	1.69			0.12	5.73	5.17 10.90
Cotton Seed B2RF	thous	33.30						0.73	34.03	34.03
B2RF Cot Tech Fee	thous	67.05						1.48	68.53	68.53
Cotton Seed Trt.	acre	20.00						0.44	20.44	20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47	10.47
Cotoran 4L	pt	11.96						0.26	12.22	12.22
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02 2.00
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Acephate 90%	lb	1.51						0.03	1.54	1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02 2.00
Centric 40WG	oz	9.66						0.18	9.84	9.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.08	4.41	2.92 7.33
UAN (32% N)	cwt	37.00						0.68	37.68	37.68
Spray (Direct/Layby)	12R-38		1.65	0.65	1.21			0.05	3.56	2.31 5.87
Diuron 4L	pt	6.70						0.10	6.80	6.80
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55	4.55
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Acephate 90%	lb	3.78						0.06	3.84	3.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
App by Air (3 gal)	appl	1.19						0.02	1.21	1.21
Karate Z	oz	1.43						0.02	1.45	1.45
Bidrin 8WM	oz	2.08						0.03	2.11	2.11
Incidental Pest										
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Incidental Pest Trt	acre	12.00						0.18	12.18	12.18
App by Air (3 gal)	appl	4.75						0.05	4.80	4.80
Acephate 90%	lb	5.16						0.06	5.22	5.22
App by Air (5 gal)	appl	6.00						0.04	6.04	6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02	3.02
Ethephon 6E	pt	4.35						0.03	4.38	4.38
Sprayer 600-825gal	90' 250hp		0.24	0.08	0.16				0.48	0.51 0.99
Tribufos 6lb	pt	4.57						0.03	4.60	4.60
Cotton Picker	6R-38(355)		10.08	12.87	5.45			0.10	28.50	49.26 77.76
Boll Buggy	6R-38(355)		6.39	2.54	3.89			0.05	12.87	10.00 22.87
Module Builder	6R-38(355)		6.39	2.71	5.45			0.05	14.60	10.35 24.95
Gin & Haul	lb	99.00						0.36	99.36	99.36
Stalk Shredder-Flail	20'		3.06	2.52	1.87			0.03	7.48	4.68 12.16
TOTALS		545.27	40.53	28.80	27.29	0.00	11.53	653.42	102.35	755.77

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 5.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	10.69	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	37.00	0.00	37.00	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	10.42	22.40	58.14	0.00	11.18	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	19.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	33.30	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.21	0.00	0.00	0.00	0.56	1.88	3.89	1.72	1.21	0.00	0.16	16.66
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	1.99	0.00	0.00	0.00	0.91	2.43	4.99	2.40	1.65	0.00	0.24	25.92
REPAIR & MAINTENANCE	1.72	0.00	0.00	0.00	0.37	1.17	3.00	1.17	0.65	0.00	0.08	20.64
INTEREST ON OP. CAP.	1.21	0.00	0.00	0.00	1.76	1.66	4.41	0.98	0.69	0.11	0.12	0.59
TOTAL DIRECT EXPENSES	28.63	0.00	0.00	0.00	61.92	66.54	204.29	54.13	46.56	10.02	18.52	162.81
NET INCOME	-28.63	0.00	0.00	0.00	-61.92	-66.54	-204.29	-54.13	-46.56	-10.02	-18.52	566.64
NET INCOME TO DATE	-28.63	-28.63	-28.63	-28.63	-90.55	-157.09	-361.38	-415.51	-462.07	-472.09	-490.61	76.03

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B2RF variety, Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-234 -337	-220 -322	-206 -308	-191 -293	-177 -279	-162 -265	-148 -250	-133 -236	-119 -221	-105 -207	-90 -192
60	540.00	lb	-201 -303	-184 -286	-166 -269	-149 -251	-132 -234	-114 -217	-97 -200	-80 -182	-63 -165	-45 -148	-28 -130
70	630.00	lb	-168 -270	-147 -250	-127 -230	-107 -209	-87 -189	-67 -169	-47 -149	-26 -129	-6 -109	13 -88	33 -68
80	720.00	lb	-134 -237	-111 -214	-88 -191	-65 -167	-42 -144	-19 -121	3 -98	26 -75	49 -52	72 -29	95 -6
90	810.00	lb	-101 -203	-75 -177	-49 -151	-23 -125	2 -100	28 -74	54 -48	80 -22	106 3	132 29	158 55
100	900.00	lb	-68 -170	-39 -141	-10 -112	18 -84	47 -55	76 -26	104 2	133 31	162 60	191 89	220 117
110	990.00	lb	-34 -137	-3 -105	28 -73	60 -42	92 -10	123 21	155 53	187 84	218 116	250 148	282 180
120	1080.00	lb	-1 -103	33 -69	67 -34	102 -0	136 34	171 69	206 103	240 138	275 173	309 207	344 242
130	1170.00	lb	31 -70	69 -33	106 4	144 41	181 79	219 116	256 154	294 191	331 229	369 266	406 304
140	1260.00	lb	65 -37	105 3	145 43	186 83	226 124	267 164	307 205	347 245	388 285	428 326	468 366
150	1350.00	lb	98 -3	141 39	184 82	228 125	271 169	314 212	358 255	401 298	444 342	487 385	531 428

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 2014 input prices.

Table 6.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	4.7500	22.56	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	1100.0000	121.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.6000	85.10	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Caparol 4L	pt	3.69	1.0000	3.69	_____
MSMA 6.6	pt	3.50	2.7500	9.63	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.5000	18.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	36.0000	3.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.8955	11.25	_____
Self-Propelled	hour	12.55	0.2545	3.19	_____
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	0.3219	2.90	_____
Self-Propelled	hour	9.06	0.2134	1.93	_____
UNALLOCATED LABOR					
	hour	12.58	0.8572	10.79	_____
DIESEL FUEL					
Tractors	gal	3.20	10.1043	32.35	_____
Self-Propelled	gal	3.20	3.9988	12.81	_____
Roll-Out Pipe Irr.	gal	3.20	8.5535	27.36	_____
REPAIR & MAINTENANCE					
Implements	acre	10.67	1.0000	10.67	_____
Tractors	acre	6.11	1.0000	6.11	_____
Self-Propelled	acre	13.75	1.0000	13.75	_____
Roll-Out Pipe Irr.	acre	6.22	1.0000	6.22	_____
INTEREST ON OP. CAP.	acre	13.18	1.0000	13.18	_____
TOTAL DIRECT EXPENSES				770.41	_____
FIXED EXPENSES					
Implements	acre	17.22	1.0000	17.22	_____
Tractors	acre	37.10	1.0000	37.10	_____
Self-Propelled	acre	54.96	1.0000	54.96	_____
Roll-Out Pipe Irr.	acre	49.67	1.0000	49.67	_____
TOTAL FIXED EXPENSES				158.95	_____
TOTAL SPECIFIED EXPENSES				929.36	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 6.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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	1100.0000	705.10	_____
Cotton Seed	lb	0.11	1650.0000	186.45	_____

TOTAL INCOME				891.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	34.57	1.0000	34.57	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	121.00	1.0000	121.00	_____
FERTILIZERS	acre	120.50	1.0000	120.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	115.46	1.0000	115.46	_____
INSECTICIDES	acre	41.62	1.0000	41.62	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.60	1.0000	3.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.5354	4.83	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	12.55	1.1500	14.44	_____
UNALLOCATED LABOR	hour	12.58	0.8572	10.79	_____
DIESEL FUEL	gal	3.20	22.6567	72.52	_____
REPAIR & MAINTENANCE	acre	36.75	1.0000	36.75	_____
INTEREST ON OP. CAP.	acre	13.18	1.0000	13.18	_____

TOTAL DIRECT EXPENSES				770.41	_____
RETURNS ABOVE DIRECT EXPENSES				121.14	_____

TOTAL FIXED EXPENSES				158.95	_____

TOTAL SPECIFIED EXPENSES				929.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-37.81	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 6.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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	12R-38	MFWD 225	0.053	Nov		0.05	0.05	0.05	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	1.00	Mar		0.04	0.04	0.04	0.03
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
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	Apr			0.01	0.02	0.01
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
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	May			0.01	0.02	0.01
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp			0.011	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp			0.017	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	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					12.0000				
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				
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					12.0000				
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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp			0.011	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)			0.172	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	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
Roll-Out Pipe Irr.	acre				Jan	1.0000		0.07	0.07	0.44
TOTALS							1.15	0.89	2.04	0.85

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 6.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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	22.50						0.99	23.49	
Bed-Paratill Fold	12R-38		1.99	1.72	1.21			0.22	5.14	4.55
App by Air (5 gal)	appl	6.00						0.18	6.18	
Clarity	pt	5.94						0.17	6.11	
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	
Bed/Disk (Hipper)	12R-38		1.83	0.74	1.12			0.11	3.80	3.12
Custom Apply Fert	acre	6.50						0.19	6.69	
Potash (60% K2O)	cwt	35.40						1.04	36.44	
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.11	4.44	2.92
UAN (32% N)	cwt	42.55						1.09	43.64	
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05
Gramonone SL 2.0	oz	15.36						0.39	15.75	
Reflex 2LC	pt	7.04						0.18	7.22	
Row Cond Folding	38'		1.51	0.58	0.92			0.07	3.08	2.93
Plant & Pre-Folding	12R-38		1.98	1.94	1.69			0.12	5.73	5.17
Cotton Seed B2RF	thous	33.30						0.73	34.03	
B2RF Cot Tech Fee	thous	67.05						1.48	68.53	
Cotton Seed Trt.	acre	20.00						0.44	20.44	
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05
Gramonone SL 2.0	oz	10.24						0.23	10.47	
Cotoran 4L	pt	11.96						0.26	12.22	
Insect Scouting	acre	7.00						0.15	7.15	
Eradication	acre	1.00						0.02	1.02	
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02
Dual Magnum	pt	13.49						0.30	13.79	
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	
Acephate 90%	lb	1.51						0.03	1.54	
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05
Dual Magnum	pt	13.49						0.30	13.79	
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02
Centric 40WG	oz	9.66						0.18	9.84	
Mepiquat Chloride	oz	1.20						0.02	1.22	
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.08	4.41	2.92
UAN (32% N)	cwt	42.55						0.78	43.33	
Spray (Direct/Hood)	12R-38		1.65	0.86	1.21			0.07	3.79	2.56
Caparol 4L	pt	3.69						0.07	3.76	
MSMA 6.6	pt	9.63						0.18	9.81	
App by Air (3 gal)	appl	4.75						0.09	4.84	
Mepiquat Chloride	oz	1.20						0.02	1.22	
Spray (Direct/Layby)	12R-38		1.65	0.65	1.21			0.05	3.56	2.31
Diuron 4L	pt	6.70						0.10	6.80	
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55	
App by Air (3 gal)	appl	4.75						0.07	4.82	
Acephate 90%	lb	3.78						0.06	3.84	
Mepiquat Chloride	oz	1.20						0.02	1.22	
App by Air (3 gal)	appl	1.19						0.02	1.21	
Karate Z	oz	1.43						0.02	1.45	
Bidrin 8WM	oz	2.08						0.03	2.11	
Incidental Pest										
App by Air (3 gal)	appl	7.13						0.10	7.23	
Incidental Pest Trt	acre	18.00						0.26	18.26	
App by Air (3 gal)	appl	4.75						0.05	4.80	
Acephate 90%	lb	5.16						0.06	5.22	
App by Air (5 gal)	appl	6.00						0.04	6.04	
Thidiazuron 4lb	oz	3.00						0.02	3.02	
Ethephon 6E	pt	4.35						0.03	4.38	
Sprayer 600-825gal	90' 250hp		0.24	0.08	0.16				0.48	0.51
Tribufos 6lb	pt	4.57						0.03	4.60	
Cotton Picker	6R-38(355)		10.08	12.87	5.45			0.10	28.50	49.26
Boll Buggy	6R-38(355)		6.39	2.54	3.89			0.05	12.87	10.00
Module Builder	6R-38(355)		6.39	2.71	5.45			0.05	14.60	10.35
Gin & Haul	lb	121.00						0.44	121.44	
Stalk Shredder-Flail	20'		3.06	2.52	1.87			0.03	7.48	4.68
Roll-Out Pipe Irr.	acre	8.58	29.42	6.72	4.30			0.73	49.75	52.48
TOTALS		614.60	72.52	36.75	33.36	0.00	13.18	770.41	158.95	929.36

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 6.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, 2015

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	891.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	4.75	13.07	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	42.55	0.00	42.55	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	10.42	22.40	58.14	13.32	11.18	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	25.29	5.16	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	33.30	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	2.40	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.21	0.00	0.00	0.00	1.12	1.88	4.12	5.48	1.44	0.23	0.74	17.14
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	1.99	0.00	0.00	0.00	1.83	2.43	4.99	13.64	10.77	9.12	0.64	27.11
REPAIR & MAINTENANCE	1.72	0.00	0.00	0.00	0.74	1.17	3.00	5.84	1.91	1.26	0.18	20.93
INTEREST ON OP. CAP.	1.21	0.00	0.00	0.00	1.82	1.80	4.42	1.95	0.95	0.22	0.13	0.68
TOTAL DIRECT EXPENSES	28.63	0.00	0.00	0.00	63.83	72.23	204.53	108.17	65.81	20.74	19.61	186.86
NET INCOME	-28.63	0.00	0.00	0.00	-63.83	-72.23	-204.53	-108.17	-65.81	-20.74	-19.61	704.69
NET INCOME TO DATE	-28.63	-28.63	-28.63	-28.63	-92.46	-164.69	-369.22	-477.39	-543.20	-563.94	-583.55	121.14

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage,
 B2RF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	550.00	lb	-258	-241	-223	-205	-188	-170	-153	-135	-117	-100	-82
			-417	-400	-382	-364	-347	-329	-312	-294	-276	-259	-241
60	660.00	lb	-218	-196	-175	-154	-133	-112	-91	-70	-48	-27	-6
			-377	-355	-334	-313	-292	-271	-250	-228	-207	-186	-165
70	770.00	lb	-177	-152	-127	-103	-78	-53	-29	-4	20	44	69
			-336	-311	-286	-262	-237	-212	-188	-163	-138	-114	-89
80	880.00	lb	-136	-108	-80	-52	-23	4	32	60	89	117	145
			-295	-267	-239	-210	-182	-154	-126	-98	-69	-41	-13
90	990.00	lb	-95	-64	-32	-0	31	62	94	126	157	189	221
			-254	-223	-191	-159	-127	-96	-64	-32	-0	30	62
100	1100.00	lb	-55	-19	15	50	85	121	156	191	226	262	297
			-214	-178	-143	-108	-73	-37	-2	32	67	103	138
110	1210.00	lb	-14	24	63	101	140	179	218	257	295	334	373
			-173	-134	-95	-57	-18	20	59	98	136	175	214
120	1320.00	lb	26	68	110	153	195	237	280	322	364	407	449
			-132	-90	-47	-5	36	78	121	163	205	248	290
130	1430.00	lb	67	112	158	204	250	296	342	387	433	479	525
			-91	-46	-0	45	91	137	183	228	274	320	366
140	1540.00	lb	107	157	206	255	305	354	403	453	502	552	601
			-51	-1	47	96	146	195	245	294	343	393	442
150	1650.00	lb	148	201	254	307	360	412	465	518	571	624	677
			-10	42	95	148	201	254	306	359	412	465	518

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 7.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	4.7500	22.56	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	1100.0000	121.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.6000	85.10	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Caparol 4L	pt	3.69	1.0000	3.69	_____
MSMA 6.6	pt	3.50	2.7500	9.63	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.5000	18.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	36.0000	3.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.7923	9.94	_____
Self-Propelled	hour	12.55	0.2545	3.19	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.3219	2.90	_____
Self-Propelled	hour	9.06	0.2134	1.93	_____
UNALLOCATED LABOR	hour	12.58	0.8375	10.54	_____
DIESEL FUEL					
Tractors	gal	3.20	9.1759	29.37	_____
Self-Propelled	gal	3.20	3.9988	12.81	_____
1/4-mi. Pivot Irr.	gal	3.20	11.2011	35.84	_____
REPAIR & MAINTENANCE					
Implements	acre	10.31	1.0000	10.31	_____
Tractors	acre	5.60	1.0000	5.60	_____
Self-Propelled	acre	13.75	1.0000	13.75	_____
1/4-mi. Pivot Irr.	acre	18.60	1.0000	18.60	_____
INTEREST ON OP. CAP.	acre	13.27	1.0000	13.27	_____
TOTAL DIRECT EXPENSES				775.91	_____
FIXED EXPENSES					
Implements	acre	15.83	1.0000	15.83	_____
Tractors	acre	34.12	1.0000	34.12	_____
Self-Propelled	acre	54.96	1.0000	54.96	_____
1/4-mi. Pivot Irr.	acre	60.48	1.0000	60.48	_____
TOTAL FIXED EXPENSES				165.39	_____
TOTAL SPECIFIED EXPENSES				941.30	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 7.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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	1100.0000	705.10	_____
Cotton Seed	lb	0.11	1650.0000	186.45	_____

TOTAL INCOME				891.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	34.57	1.0000	34.57	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	121.00	1.0000	121.00	_____
FERTILIZERS	acre	120.50	1.0000	120.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	115.46	1.0000	115.46	_____
INSECTICIDES	acre	41.62	1.0000	41.62	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.60	1.0000	3.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.5354	4.83	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	12.55	1.0468	13.13	_____
UNALLOCATED LABOR	hour	12.58	0.8375	10.54	_____
DIESEL FUEL	gal	3.20	24.3759	78.02	_____
REPAIR & MAINTENANCE	acre	48.26	1.0000	48.26	_____
INTEREST ON OP. CAP.	acre	13.27	1.0000	13.27	_____

TOTAL DIRECT EXPENSES				775.91	_____
RETURNS ABOVE DIRECT EXPENSES				115.64	_____
TOTAL FIXED EXPENSES				165.39	_____

TOTAL SPECIFIED EXPENSES				941.30	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-49.75	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 7.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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	12R-38	MFWD 225	0.053	1.00	Nov				
App by Air (5 gal)	appl			1.00	Mar	1.0000	0.05	0.05	0.05	0.04
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
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
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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					0.2200				
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					12.0000				
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				
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					12.0000				
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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp			0.011	0.50	Sep		0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	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
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							1.04	0.79	1.78	0.83

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 7.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Bed-Paratill Fold	12R-38		1.99	1.72	1.21			0.22	5.14	4.55	9.69
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Clarity	pt	5.94						0.17	6.11		6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bed/Disk (Hipper)	12R-38		0.91	0.37	0.56			0.05	1.89	1.56	3.45
Custom Apply Fert	acre	6.50						0.19	6.69		6.69
Potash (60% K2O)	cwt	35.40						1.04	36.44		36.44
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.11	4.44	2.92	7.36
UAN (32% N)	cwt	42.55						1.09	43.64		43.64
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75		15.75
Reflex 2LC	pt	7.04						0.18	7.22		7.22
Row Cond Folding	38'		1.51	0.58	0.92			0.07	3.08	2.93	6.01
Plant & Pre-Folding	12R-38		1.98	1.94	1.69			0.12	5.73	5.17	10.90
Cotton Seed B2RF	thous	33.30						0.73	34.03		34.03
B2RF Cot Tech Fee	thous	67.05						1.48	68.53		68.53
Cotton Seed Trt.	acre	20.00						0.44	20.44		20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47		10.47
Cotoran 4L	pt	11.96						0.26	12.22		12.22
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02	2.00
Dual Magnum	pt	13.49						0.30	13.79		13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Acephate 90%	lb	1.51						0.03	1.54		1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Dual Magnum	pt	13.49						0.30	13.79		13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58		4.58
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02	2.00
Centric 40WG	oz	9.66						0.18	9.84		9.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.08	4.41	2.92	7.33
UAN (32% N)	cwt	42.55						0.78	43.33		43.33
Spray (Direct/Hood)	12R-38		1.65	0.86	1.21			0.07	3.79	2.56	6.35
Caparol 4L	pt	3.69						0.07	3.76		3.76
MSMA 6.6	pt	9.63						0.18	9.81		9.81
App by Air (3 gal)	appl	4.75						0.09	4.84		4.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Spray (Direct/Layby)	12R-38		1.65	0.65	1.21			0.05	3.56	2.31	5.87
Diuron 4L	pt	6.70						0.10	6.80		6.80
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Acephate 90%	lb	3.78						0.06	3.84		3.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
App by Air (3 gal)	appl	1.19						0.02	1.21		1.21
Karate Z	oz	1.43						0.02	1.45		1.45
Bidrin 8WM	oz	2.08						0.03	2.11		2.11
Incidental Pest											
App by Air (3 gal)	appl	7.13						0.10	7.23		7.23
Incidental Pest Trt	acre	18.00						0.26	18.26		18.26
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Acephate 90%	lb	5.16						0.06	5.22		5.22
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02		3.02
Ethephon 6E	pt	4.35						0.03	4.38		4.38
Sprayer 600-825gal	90' 250hp		0.24	0.08	0.16				0.48	0.51	0.99
Tribufos 6lb	pt	4.57						0.03	4.60		4.60
Cotton Picker	6R-38(355)		10.08	12.87	5.45			0.10	28.50	49.26	77.76
Boll Buggy	6R-38(355)		6.39	2.54	3.89			0.05	12.87	10.00	22.87
Module Builder	6R-38(355)		6.39	2.71	5.45			0.05	14.60	10.35	24.95
Gin & Haul	lb	121.00						0.44	121.44		121.44
Stalk Shredder-Flail	20'		3.06	2.52	1.87			0.03	7.48	4.68	12.16
1/4-mi. Pivot Irr.	acre		35.84	18.60	1.84			0.88	57.16	60.48	117.64
TOTALS		606.02	78.02	48.26	30.34	0.00	13.27	775.91	165.39	941.30	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 7.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, 2015

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	891.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	4.75	13.07	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	42.55	0.00	42.55	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	10.42	22.40	58.14	13.32	11.18	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	25.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	33.30	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	2.40	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.21	0.00	0.00	0.00	0.56	1.88	5.23	3.08	1.41	0.15	0.16	16.66
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	1.99	0.00	0.00	0.00	0.91	2.43	4.99	14.80	15.99	10.75	0.24	25.92
REPAIR & MAINTENANCE	1.72	0.00	0.00	0.00	0.37	1.17	3.00	17.50	2.44	1.34	0.08	20.64
INTEREST ON OP. CAP.	1.21	0.00	0.00	0.00	1.76	1.80	4.44	1.99	1.04	0.24	0.12	0.67
TOTAL DIRECT EXPENSES	28.63	0.00	0.00	0.00	61.92	72.23	205.66	110.05	71.62	22.39	18.52	184.89
NET INCOME	-28.63	0.00	0.00	0.00	-61.92	-72.23	-205.66	-110.05	-71.62	-22.39	-18.52	706.66
NET INCOME TO DATE	-28.63	-28.63	-28.63	-28.63	-90.55	-162.78	-368.44	-478.49	-550.11	-572.50	-591.02	115.64

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage, B2RF
 Pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	550.00	lb	-264 -429	-246 -412	-229 -394	-211 -376	-193 -359	-176 -341	-158 -323	-140 -306	-123 -288	-105 -271	-88 -253
60	660.00	lb	-223 -388	-202 -367	-181 -346	-160 -325	-138 -304	-117 -283	-96 -262	-75 -240	-54 -219	-33 -198	-12 -177
70	770.00	lb	-182 -348	-158 -323	-133 -298	-108 -274	-84 -249	-59 -224	-34 -200	-10 -175	14 -150	39 -126	63 -101
80	880.00	lb	-142 -307	-113 -279	-85 -251	-57 -222	-29 -194	-1 -166	27 -138	55 -110	83 -81	111 -53	139 -25
90	990.00	lb	-101 -266	-69 -235	-37 -203	-6 -171	25 -139	57 -108	89 -76	120 -44	152 -12	184 18	215 50
100	1100.00	lb	-60 -226	-25 -190	9 -155	45 -120	80 -85	115 -49	150 -14	186 20	221 56	256 91	291 126
110	1210.00	lb	-19 -185	18 -146	57 -107	96 -68	135 -30	174 8	212 47	251 86	290 124	329 163	367 202
120	1320.00	lb	20 -144	63 -102	105 -59	147 -17	190 24	232 66	274 109	316 151	359 193	401 236	443 278
130	1430.00	lb	61 -103	107 -57	153 -12	199 33	244 79	290 125	336 171	382 217	428 262	474 308	519 354
140	1540.00	lb	102 -63	151 -13	201 35	250 85	299 134	349 183	398 233	447 282	497 331	546 381	595 430
150	1650.00	lb	143 -22	195 30	248 83	301 136	354 189	407 242	460 294	513 347	566 400	619 453	671 506

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 2014 input prices.

Table 8.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	3.2500	15.44	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
**Amm Nitrate (34% N	cwt	22.50	2.0000	45.00	_____
UAN (32% N)	cwt	18.50	2.0000	37.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramonone SL 2.0	oz	0.32	80.0000	25.60	_____
Reflex 2LC	pt	7.04	1.0000	7.04	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	2.0000	26.98	_____
Diuron 4L	pt	4.19	1.6000	6.70	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	0.5000	1.43	_____
Bidrin 8WM	oz	1.04	2.0000	2.08	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.74	45.0000	33.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.6198	7.78	_____
Self-Propelled	hour	12.55	0.2545	3.19	_____
HAND LABOR					
Implements	hour	9.06	0.2760	2.49	_____
Self-Propelled	hour	9.06	0.2134	1.93	_____
UNALLOCATED LABOR					
	hour	12.57	0.6995	8.80	_____
DIESEL FUEL					
Tractors	gal	3.20	7.1790	22.98	_____
Self-Propelled	gal	3.20	3.9988	12.81	_____
REPAIR & MAINTENANCE					
Implements	acre	7.71	1.0000	7.71	_____
Tractors	acre	4.38	1.0000	4.38	_____
Self-Propelled	acre	13.75	1.0000	13.75	_____
INTEREST ON OP. CAP.	acre	11.57	1.0000	11.57	_____
TOTAL DIRECT EXPENSES				650.66	_____
FIXED EXPENSES					
Implements	acre	12.00	1.0000	12.00	_____
Tractors	acre	26.70	1.0000	26.70	_____
Self-Propelled	acre	54.96	1.0000	54.96	_____
TOTAL FIXED EXPENSES				93.66	_____
TOTAL SPECIFIED EXPENSES				744.32	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 8.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	27.44	1.0000	27.44	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	117.40	1.0000	117.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	102.14	1.0000	102.14	_____
INSECTICIDES	acre	35.62	1.0000	35.62	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.4895	4.42	_____
OPERATOR LABOR	hour	12.55	0.8744	10.97	_____
UNALLOCATED LABOR	hour	12.57	0.6995	8.80	_____
DIESEL FUEL	gal	3.20	11.1778	35.79	_____
REPAIR & MAINTENANCE	acre	25.84	1.0000	25.84	_____
INTEREST ON OP. CAP.	acre	11.57	1.0000	11.57	_____

TOTAL DIRECT EXPENSES				650.66	_____
RETURNS ABOVE DIRECT EXPENSES				78.79	_____

TOTAL FIXED EXPENSES				93.66	_____

TOTAL SPECIFIED EXPENSES				744.32	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-14.87	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 8.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
**Amm Nitrate (34% N	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Gramonone SL 2.0	oz					48.0000				
Reflex 2LC	pt					1.0000				
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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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					0.2200				
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					12.0000				
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				
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					0.5500				
Mepiquat Chloride	oz					12.0000				
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				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	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							0.87	0.61	1.36	0.69

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 8.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, no-till
B2RF variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	22.50						0.99	23.49	23.49
App by Air (5 gal)	appl	6.00						0.18	6.18	6.18
Clarity	pt	5.94						0.17	6.11	6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Custom Apply Fert	acre	6.50						0.19	6.69	6.69
Potash (60% K20)	cwt	35.40						1.04	36.44	36.44
**Amm Nitrate (34% N	cwt	45.00						1.32	46.32	46.32
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	15.36						0.39	15.75	15.75
Reflex 2LC	pt	7.04						0.18	7.22	7.22
Row Cond Folding	38'		1.51	0.58	0.92			0.07	3.08	2.93 6.01
NT Plant&Pre-Folding	12R-38		2.06	2.08	1.76			0.13	6.03	5.51 11.54
Cotton Seed B2RF	thous	33.30						0.73	34.03	34.03
B2RF Cot Tech Fee	thous	67.05						1.48	68.53	68.53
Cotton Seed Trt.	acre	20.00						0.44	20.44	20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47	10.47
Cotoran 4L	pt	11.96						0.26	12.22	12.22
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02 2.00
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Acephate 90%	lb	1.51						0.03	1.54	1.54
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05 2.23
Dual Magnum	pt	13.49						0.30	13.79	13.79
Glyphosate 3lbs a.e	oz	4.48						0.10	4.58	4.58
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02 2.00
Centric 40WG	oz	9.66						0.18	9.84	9.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.08	4.41	2.92 7.33
UAN (32% N)	cwt	37.00						0.68	37.68	37.68
Spray (Direct/Layby)	12R-38		1.65	0.65	1.21			0.06	3.57	2.31 5.88
Diuron 4L	pt	6.70						0.12	6.82	6.82
Glyphosate 3lbs a.e	oz	4.48						0.08	4.56	4.56
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Acephate 90%	lb	3.78						0.06	3.84	3.84
Mepiquat Chloride	oz	1.20						0.02	1.22	1.22
App by Air (3 gal)	appl	1.19						0.02	1.21	1.21
Karate Z	oz	1.43						0.02	1.45	1.45
Bidrin 8WM	oz	2.08						0.03	2.11	2.11
Incidental Pest										
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Incidental Pest Trt	acre	12.00						0.18	12.18	12.18
App by Air (3 gal)	appl	4.75						0.05	4.80	4.80
Acephate 90%	lb	5.16						0.06	5.22	5.22
App by Air (5 gal)	appl	6.00						0.04	6.04	6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02	3.02
Ethephon 6E	pt	4.35						0.03	4.38	4.38
Sprayer 600-825gal	90' 250hp		0.24	0.08	0.16				0.48	0.51 0.99
Tribufos 6lb	pt	4.57						0.03	4.60	4.60
Cotton Picker	6R-38(355)		10.08	12.87	5.45			0.10	28.50	49.26 77.76
Boll Buggy	6R-38(355)		6.39	2.54	3.89			0.05	12.87	10.00 22.87
Module Builder	6R-38(355)		6.39	2.71	5.45			0.05	14.60	10.35 24.95
Gin & Haul	lb	99.00						0.36	99.36	99.36
Stalk Shredder-Flail	20'		3.06	2.52	1.87			0.03	7.48	4.68 12.16
TOTALS		553.27	35.79	25.84	24.19	0.00	11.57	650.66	93.66	744.32

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 8.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	10.69	4.75	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	80.40	0.00	0.00	37.00	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	10.42	22.40	58.14	11.18	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	19.29	5.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	33.30	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	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	0.48	3.96	2.93	0.00	0.00	0.16	16.66
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	0.51	5.07	4.05	0.00	0.00	0.24	25.92
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.16	3.14	1.82	0.00	0.00	0.08	20.64
INTEREST ON OP. CAP.	0.99	0.00	0.00	0.00	3.03	0.60	4.42	1.24	0.47	0.11	0.12	0.59
TOTAL DIRECT EXPENSES	23.49	0.00	0.00	0.00	106.35	24.15	204.59	69.08	31.65	10.02	18.52	162.81
NET INCOME	-23.49	0.00	0.00	0.00	-106.35	-24.15	-204.59	-69.08	-31.65	-10.02	-18.52	566.64
NET INCOME TO DATE	-23.49	-23.49	-23.49	-23.49	-129.84	-153.99	-358.58	-427.66	-459.31	-469.33	-487.85	78.79

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B2RF variety, Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-232	-217	-203	-188	-174	-159	-145	-131	-116	-102	-87
			-325	-311	-296	-282	-268	-253	-239	-224	-210	-195	-181
60	540.00	lb	-198	-181	-164	-146	-129	-112	-94	-77	-60	-42	-25
			-292	-275	-257	-240	-223	-205	-188	-171	-153	-136	-119
70	630.00	lb	-165	-145	-125	-104	-84	-64	-44	-24	-3	16	36
			-259	-238	-218	-198	-178	-158	-137	-117	-97	-77	-57
80	720.00	lb	-132	-109	-85	-62	-39	-16	6	29	52	75	98
			-225	-202	-179	-156	-133	-110	-87	-64	-41	-18	5
90	810.00	lb	-98	-72	-46	-20	5	31	56	82	108	134	160
			-192	-166	-140	-114	-88	-62	-36	-10	15	41	67
100	900.00	lb	-65	-36	-7	21	49	78	107	136	165	194	223
			-159	-130	-101	-72	-43	-14	13	42	71	100	129
110	990.00	lb	-32	-0	31	63	94	126	158	190	221	253	285
			-125	-94	-62	-30	1	32	64	96	128	159	191
120	1080.00	lb	1	35	70	105	139	174	208	243	278	312	347
			-92	-57	-23	11	46	80	115	149	184	219	253
130	1170.00	lb	34	72	109	147	184	222	259	297	334	372	409
			-59	-21	15	53	90	128	165	203	240	278	315
140	1260.00	lb	67	108	148	189	229	269	310	350	390	431	471
			-25	14	54	95	135	176	216	256	297	337	378
150	1350.00	lb	101	144	187	231	274	317	360	404	447	490	533
			7	50	94	137	180	223	267	310	353	396	440

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 2014 input prices.

Table 9.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
App by Air (3 gal)	appl	4.75	5.5000	26.13	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.0000	3.00	_____
Ethephon 6E	pt	3.27	1.3300	4.35	_____
Tribufos 6lb	pt	9.13	0.5000	4.57	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.60	1.5000	35.40	_____
UAN (32% N)	cwt	18.50	4.0000	74.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.88	0.5000	5.94	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Gramonone SL 2.0	oz	0.32	32.0000	10.24	_____
Cotoran 4L	pt	5.98	2.0000	11.96	_____
Dual Magnum	pt	13.49	1.0000	13.49	_____
Liberty 280	oz	0.66	58.0000	38.28	_____
Valor SX	oz	6.15	2.0000	12.30	_____
MSMA 6.6	pt	3.50	2.7500	9.63	_____
INSECTICIDES					
Acephate 90%	lb	6.88	1.5200	10.46	_____
Centric 40WG	oz	4.83	2.0000	9.66	_____
Karate Z	oz	2.85	6.0000	17.10	_____
Bidrin 8WM	oz	1.04	8.0000	8.32	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed LLB2	thous	1.19	45.0000	53.55	_____
TECHNOLOGY FEE					
B2 Cot Tech Fee	thous	0.76	45.0000	34.20	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	24.0000	2.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.7477	9.38	_____
Self-Propelled	hour	12.55	0.2193	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.2997	2.70	_____
Self-Propelled	hour	9.06	0.1958	1.77	_____
UNALLOCATED LABOR					
	hour	12.57	0.7736	9.73	_____
DIESEL FUEL					
Tractors	gal	3.20	8.6602	27.72	_____
Self-Propelled	gal	3.20	3.6814	11.79	_____
REPAIR & MAINTENANCE					
Implements	acre	9.76	1.0000	9.76	_____
Tractors	acre	5.29	1.0000	5.29	_____
Self-Propelled	acre	13.43	1.0000	13.43	_____
INTEREST ON OP. CAP.	acre	11.37	1.0000	11.37	_____
TOTAL DIRECT EXPENSES				669.14	_____
FIXED EXPENSES					
Implements	acre	15.19	1.0000	15.19	_____
Tractors	acre	32.20	1.0000	32.20	_____
Self-Propelled	acre	52.86	1.0000	52.86	_____
TOTAL FIXED EXPENSES				100.25	_____
TOTAL SPECIFIED EXPENSES				769.39	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 9.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.64	900.0000	576.90	_____
Cotton Seed	lb	0.11	1350.0000	152.55	_____

TOTAL INCOME				729.45	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	38.13	1.0000	38.13	_____
HARVEST AIDS	acre	11.92	1.0000	11.92	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	109.40	1.0000	109.40	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	106.32	1.0000	106.32	_____
INSECTICIDES	acre	51.53	1.0000	51.53	_____
SEED/PLANTS	acre	53.55	1.0000	53.55	_____
TECHNOLOGY FEE	acre	34.20	1.0000	34.20	_____
GROWTH REGULATORS	acre	2.40	1.0000	2.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.4955	4.47	_____
OPERATOR LABOR	hour	12.55	0.9670	12.13	_____
UNALLOCATED LABOR	hour	12.57	0.7736	9.73	_____
DIESEL FUEL	gal	3.20	12.3417	39.51	_____
REPAIR & MAINTENANCE	acre	28.48	1.0000	28.48	_____
INTEREST ON OP. CAP.	acre	11.37	1.0000	11.37	_____

TOTAL DIRECT EXPENSES				669.14	_____
RETURNS ABOVE DIRECT EXPENSES				60.31	_____

TOTAL FIXED EXPENSES				100.25	_____

TOTAL SPECIFIED EXPENSES				769.39	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-39.94	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 9.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
Bed-Paratill	Fold	12R-38	MFWD 225	0.053	Nov		0.05	0.05	0.05	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
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				
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 LLB2	thous					45.0000				
B2 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
Gramonone SL 2.0	oz					32.0000				
Cotoran 4L	pt					2.0000				
Insect Scouting	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2200				
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				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					12.0000				
Liberty 280	oz					29.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Valor SX	oz					2.0000				
MSMA 6.6	pt					2.7500				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					12.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Bidrin 8WM	oz					8.0000				
Incidental Pest				0.50	Jul					
App by Air (3 gal)	appl					0.5000				
Incidental Pest Trt	acre					0.5000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Karate Z	oz					2.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 225	0.172	1.00	Oct		0.17	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							0.96	0.74	1.46	0.77

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 9.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
LLB2 variety, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Bed-Paratill Fold	12R-38		1.99	1.72	1.21			0.22	5.14	4.55	9.69
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Clarity	pt	5.94						0.17	6.11		6.11
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bed/Disk (Hipper)	12R-38		0.91	0.37	0.56			0.05	1.89	1.56	3.45
Custom Apply Fert	acre	6.50						0.19	6.69		6.69
Potash (60% K2O)	cwt	35.40						1.04	36.44		36.44
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.11	4.44	2.92	7.36
UAN (32% N)	cwt	37.00						0.95	37.95		37.95
Row Cond Folding	38'		1.51	0.58	0.92			0.07	3.08	2.93	6.01
Plant & Pre-Folding	12R-38		1.98	1.94	1.69			0.12	5.73	5.17	10.90
Cotton Seed LLB2	thous	53.55						1.18	54.73		54.73
B2 Cot Tech Fee	thous	34.20						0.75	34.95		34.95
Cotton Seed Trt.	acre	20.00						0.44	20.44		20.44
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Gramonone SL 2.0	oz	10.24						0.23	10.47		10.47
Cotoran 4L	pt	11.96						0.26	12.22		12.22
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02	2.00
Dual Magnum	pt	13.49						0.30	13.79		13.79
Liberty 280	oz	19.14						0.42	19.56		19.56
Acephate 90%	lb	1.51						0.03	1.54		1.54
Fert Appl (Liquid)	12R-38		1.92	1.01	1.40			0.08	4.41	2.92	7.33
UAN (32% N)	cwt	37.00						0.68	37.68		37.68
Sprayer 600-825gal	90' 250hp		0.48	0.16	0.32			0.02	0.98	1.02	2.00
Centric 40WG	oz	9.66						0.18	9.84		9.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
Liberty 280	oz	19.14						0.35	19.49		19.49
Spray (Direct/Layby)	12R-38		1.65	0.65	1.21			0.05	3.56	2.31	5.87
Valor SX	oz	12.30						0.18	12.48		12.48
MSMA 6.6	pt	9.63						0.14	9.77		9.77
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Acephate 90%	lb	3.78						0.06	3.84		3.84
Mepiquat Chloride	oz	1.20						0.02	1.22		1.22
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Karate Z	oz	5.70						0.08	5.78		5.78
Bidrin 8WM	oz	8.32						0.12	8.44		8.44
Incidental Pest											
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Incidental Pest Trt	acre	6.00						0.09	6.09		6.09
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Karate Z	oz	5.70						0.08	5.78		5.78
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Acephate 90%	lb	5.16						0.06	5.22		5.22
App by Air (3 gal)	appl	4.75						0.05	4.80		4.80
Karate Z	oz	5.70						0.06	5.76		5.76
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Thidiazuron 4lb	oz	3.00						0.02	3.02		3.02
Ethephon 6E	pt	4.35						0.03	4.38		4.38
Sprayer 600-825gal	90' 250hp		0.24	0.08	0.16				0.48	0.51	0.99
Tribufos 6lb	pt	4.57						0.03	4.60		4.60
Cotton Picker	6R-38(355)		10.08	12.87	5.45			0.10	28.50	49.26	77.76
Boll Buggy	6R-38(355)		6.39	2.54	3.89			0.05	12.87	10.00	22.87
Module Builder	6R-38(355)		6.39	2.71	5.45			0.05	14.60	10.35	24.95
Gin & Haul	lb	99.00						0.36	99.36		99.36
Stalk Shredder-Flail	20'		3.06	2.52	1.87			0.03	7.48	4.68	12.16
TOTALS		563.45	39.51	28.48	26.33	0.00	11.37	669.14	100.25	769.39	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 9.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

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	729.45
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	16.63	9.50	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	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	0.00	0.00	0.00	0.00	35.40	37.00	0.00	37.00	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	10.42	0.00	54.83	19.14	21.93	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.51	9.66	29.50	10.86	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.55	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	34.20	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	1.20	1.20	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.50	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
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.21	0.00	0.00	0.00	0.56	1.40	3.41	1.72	1.21	0.00	0.16	16.66
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	1.99	0.00	0.00	0.00	0.91	1.92	4.48	2.40	1.65	0.00	0.24	25.92
REPAIR & MAINTENANCE	1.72	0.00	0.00	0.00	0.37	1.01	2.84	1.17	0.65	0.00	0.08	20.64
INTEREST ON OP. CAP.	1.21	0.00	0.00	0.00	1.76	1.06	4.02	1.33	1.06	0.22	0.12	0.59
TOTAL DIRECT EXPENSES	28.63	0.00	0.00	0.00	61.92	42.39	186.84	73.62	73.83	20.58	18.52	162.81
NET INCOME	-28.63	0.00	0.00	0.00	-61.92	-42.39	-186.84	-73.62	-73.83	-20.58	-18.52	566.64
NET INCOME TO DATE	-28.63	-28.63	-28.63	-28.63	-90.55	-132.94	-319.78	-393.40	-467.23	-487.81	-506.33	60.31

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 LLB2 variety, Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.48	0.51	0.54	0.57	0.60	0.64	0.67	0.70	0.73	0.76	0.80		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-250 -350	-236 -336	-221 -321	-207 -307	-192 -293	-178 -278	-164 -264	-149 -249	-135 -235	-120 -221	-106 -206
60	540.00	lb	-217 -317	-199 -300	-182 -282	-165 -265	-148 -248	-130 -230	-113 -213	-96 -196	-78 -179	-61 -161	-44 -144
70	630.00	lb	-183 -284	-163 -263	-143 -243	-123 -223	-103 -203	-82 -183	-62 -163	-42 -142	-22 -122	-2 -102	18 -82
80	720.00	lb	-150 -250	-127 -227	-104 -204	-81 -181	-58 -158	-35 -135	-12 -112	10 -89	34 -66	57 -43	80 -20
90	810.00	lb	-117 -217	-91 -191	-65 -165	-39 -139	-13 -113	12 -87	38 -61	64 -35	90 -9	116 16	142 42
100	900.00	lb	-83 -184	-55 -155	-26 -126	2 -97	31 -68	60 -39	89 -11	118 17	146 46	175 75	204 104
110	990.00	lb	-50 -150	-18 -119	12 -87	44 -55	76 -23	108 7	139 39	171 71	203 103	234 134	266 166
120	1080.00	lb	-17 -117	17 -82	51 -48	86 -13	121 20	155 55	190 90	225 124	259 159	294 194	328 228
130	1170.00	lb	16 -84	53 -46	91 -9	128 28	166 65	203 103	241 140	278 178	316 215	353 253	391 290
140	1260.00	lb	49 -50	89 -10	130 29	170 70	210 110	251 151	291 191	332 231	372 272	412 312	453 352
150	1350.00	lb	82 -17	126 25	169 69	212 112	255 155	299 198	342 242	385 285	428 328	472 371	515 415

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 2014 input prices.

Table 10.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Headline EC	oz	3.62	3.0000	10.86	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	6.0000	13.50	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Valor SX	oz	6.15	2.0000	12.30	_____
Prefix	pt	6.26	2.0000	12.52	_____
INSECTICIDES					
Karate Z	oz	2.85	0.9600	2.74	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.2000	0.72	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.3723	4.67	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1379	1.25	_____
UNALLOCATED LABOR	hour	12.52	0.4271	5.35	_____
DIESEL FUEL					
Tractors	gal	3.20	3.6418	11.66	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	4.73	1.0000	4.73	_____
Tractors	acre	1.94	1.0000	1.94	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	6.74	1.0000	6.74	_____
TOTAL DIRECT EXPENSES				281.45	_____
FIXED EXPENSES					
Implements	acre	9.30	1.0000	9.30	_____
Tractors	acre	11.85	1.0000	11.85	_____
Harvesters	acre	11.86	1.0000	11.86	_____
TOTAL FIXED EXPENSES				33.01	_____
TOTAL SPECIFIED EXPENSES				314.46	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 10.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	42.0000	405.72	_____

TOTAL INCOME				405.72	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	17.50	1.0000	17.50	_____
HERBICIDES	acre	43.20	1.0000	43.20	_____
INSECTICIDES	acre	8.16	1.0000	8.16	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.72	1.0000	0.72	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
OPERATOR LABOR	hour	12.55	0.4745	5.95	_____
UNALLOCATED LABOR	hour	12.52	0.4271	5.35	_____
DIESEL FUEL	gal	3.20	5.0354	16.12	_____
REPAIR & MAINTENANCE	acre	9.77	1.0000	9.77	_____
INTEREST ON OP. CAP.	acre	6.74	1.0000	6.74	_____

TOTAL DIRECT EXPENSES				281.45	_____
RETURNS ABOVE DIRECT EXPENSES				124.27	_____
TOTAL FIXED EXPENSES				33.01	_____

TOTAL SPECIFIED EXPENSES				314.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				91.26	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 10.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

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 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus (46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	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					2.0000				
2,4-D Amine 4	pt					2.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
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	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Headline EC	oz					3.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
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 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.47	0.47	0.61	0.42

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 10.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		1.28	0.26	0.97			0.11	2.62	1.41	4.03
Lime (Spread)	ton	9.00						0.40	9.40		9.40
Spin Spreader	5 ton		1.32	0.48	1.39			0.14	3.33	1.84	5.17
Phosphorus (46% P2O5)	cwt	24.50						1.08	25.58		25.58
Potash (60% K2O)	cwt	28.32						1.25	29.57		29.57
Disk Harrow	24'		2.56	1.40	1.95			0.26	6.17	4.58	10.75
Field Cultivate Fld	24'		1.95	0.73	1.48			0.18	4.34	3.64	7.98
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
2,4-D Amine 4	pt	4.88						0.14	5.02		5.02
Plant & Pre-Folding	12R-30		2.12	2.09	2.22			0.14	6.57	5.36	11.93
Soybean Seed RR2	lb	59.50						1.31	60.81		60.81
CruiserMaxx	oz	6.64						0.15	6.79		6.79
Nitrastick S	lbseed	1.25						0.03	1.28		1.28
Valor SX	oz	12.30						0.27	12.57		12.57
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50						0.08	4.58		4.58
Prefix	pt	12.52						0.23	12.75		12.75
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50						0.08	4.58		4.58
App by Air (5 gal)	appl	3.00						0.03	3.03		3.03
Headline EC	oz	10.86						0.12	10.98		10.98
App by Air (5 gal)	appl	3.00						0.03	3.03		3.03
Karate Z	oz	2.74						0.03	2.77		2.77
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Acephate 90SP	lb	5.42						0.04	5.46		5.46
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Paraquat	oz	5.28						0.04	5.32		5.32
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	0.72						0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43			0.04	10.87	13.07	23.94
Haul Soybeans	bu	11.34						0.04	11.38		11.38
Grain Cart Soybean	700 bu		0.67	0.31	0.51			0.01	1.50	1.01	2.51
TOTALS		236.27	16.12	9.77	12.55	0.00	6.74	281.45	33.01	314.46	

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 10.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

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	405.72
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	6.00	12.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	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	6.64	0.00	0.00	10.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.38	0.00	12.30	21.52	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	2.74	5.42	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	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	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	5.79	0.00	0.00	0.00	0.00	0.00	2.22	1.60	0.00	0.00	0.00	2.94
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	7.11	0.00	0.00	0.00	0.00	0.00	2.12	1.76	0.00	0.00	0.00	5.13
REPAIR & MAINTENANCE	2.87	0.00	0.00	0.00	0.00	0.00	2.09	0.56	0.00	0.00	0.00	4.25
INTEREST ON OP. CAP.	3.42	0.00	0.00	0.00	0.45	0.00	1.90	0.47	0.00	0.21	0.20	0.09
TOTAL DIRECT EXPENSES	81.01	0.00	0.00	0.00	15.83	0.00	88.02	25.91	0.00	19.81	27.12	23.75
NET INCOME	-81.01	0.00	0.00	0.00	-15.83	0.00	-88.02	-25.91	0.00	-19.81	-27.12	381.97
NET INCOME TO DATE	-81.01	-81.01	-81.01	-81.01	-96.84	-96.84	-184.86	-210.77	-210.77	-230.58	-257.70	124.27

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 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, early-planted, RR, stale seedbed, 12R 30"
 Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Soybeans	7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07		
PERCENT	YIELD	UNIT	-----dollars-----										
50	21.00	bu	-123	-113	-103	-93	-83	-72	-62	-52	-42	-32	-22
			-156	-146	-136	-126	-116	-105	-95	-85	-75	-65	-55
60	25.20	bu	-94	-82	-69	-57	-45	-33	-21	-9	3	15	27
			-127	-115	-102	-90	-78	-66	-54	-42	-29	-17	-5
70	29.40	bu	-65	-50	-36	-22	-8	5	20	34	48	62	76
			-98	-83	-69	-55	-41	-27	-12	1	15	29	43
80	33.60	bu	-35	-19	-3	12	29	45	61	77	94	110	126
			-68	-52	-36	-20	-3	12	28	44	61	77	93
90	37.80	bu	-6	11	30	48	66	84	103	121	139	157	176
			-39	-21	-2	15	33	51	70	88	106	124	143
100	42.00	bu	22	43	63	83	103	124	144	164	185	205	225
			-10	10	30	50	70	91	111	131	152	172	192
110	46.20	bu	52	74	96	119	141	163	186	208	230	252	275
			19	41	63	86	108	130	153	175	197	219	242
120	50.40	bu	81	105	130	154	178	203	227	251	276	300	324
			48	72	97	121	145	170	194	218	243	267	291
130	54.60	bu	110	137	163	189	216	242	268	295	321	348	374
			77	104	130	156	183	209	235	262	288	315	341
140	58.80	bu	140	168	196	225	253	282	310	338	367	395	424
			106	135	163	192	220	248	277	305	334	362	390
150	63.00	bu	169	199	230	260	291	321	351	382	412	443	473
			136	166	197	227	258	288	318	349	379	410	440

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 2014 input prices.

Table 11.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.2500	25.50	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	3.0000	8.58	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	6.0000	13.50	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Valor SX	oz	6.15	2.0000	12.30	_____
Prefix	pt	6.26	2.0000	12.52	_____
INSECTICIDES					
Karate Z	oz	2.85	0.9600	2.74	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	1.0000	2.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.2250	0.81	_____
HAULING					
Haul Soybeans	bu	0.27	65.0000	17.55	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5134	6.45	_____
Harvesters	hour	12.55	0.1021	1.28	_____
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	0.1379	1.25	_____
UNALLOCATED LABOR					
	hour	12.53	0.4833	6.06	_____
DIESEL FUEL					
Tractors	gal	3.20	4.8957	15.68	_____
Harvesters	gal	3.20	1.3935	4.46	_____
Roll-Out Pipe Irr.	gal	3.20	7.3316	23.46	_____
REPAIR & MAINTENANCE					
Implements	acre	5.35	1.0000	5.35	_____
Tractors	acre	2.60	1.0000	2.60	_____
Harvesters	acre	3.10	1.0000	3.10	_____
Roll-Out Pipe Irr.	acre	6.22	1.0000	6.22	_____
INTEREST ON OP. CAP.	acre	7.61	1.0000	7.61	_____
TOTAL DIRECT EXPENSES				339.19	_____
FIXED EXPENSES					
Implements	acre	11.34	1.0000	11.34	_____
Tractors	acre	15.76	1.0000	15.76	_____
Harvesters	acre	11.86	1.0000	11.86	_____
Roll-Out Pipe Irr.	acre	49.67	1.0000	49.67	_____
TOTAL FIXED EXPENSES				88.63	_____
TOTAL SPECIFIED EXPENSES				427.82	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 11.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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	65.0000	627.90	_____

TOTAL INCOME				627.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	25.50	1.0000	25.50	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	15.22	1.0000	15.22	_____
HERBICIDES	acre	43.20	1.0000	43.20	_____
INSECTICIDES	acre	10.16	1.0000	10.16	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.81	1.0000	0.81	_____
HAULING	acre	17.55	1.0000	17.55	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	12.55	0.6155	7.73	_____
UNALLOCATED LABOR	hour	12.53	0.4833	6.06	_____
DIESEL FUEL	gal	3.20	13.6209	43.60	_____
REPAIR & MAINTENANCE	acre	17.27	1.0000	17.27	_____
INTEREST ON OP. CAP.	acre	7.61	1.0000	7.61	_____

TOTAL DIRECT EXPENSES				339.19	_____
RETURNS ABOVE DIRECT EXPENSES				288.71	_____
TOTAL FIXED EXPENSES				88.63	_____

TOTAL SPECIFIED EXPENSES				427.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				200.08	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 11.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, 2015

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 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus (46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed-Roll-Fold.	12R-30	MFWD 190	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					2.0000				
2,4-D Amine 4	pt					2.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
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	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Quadris	oz					3.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			0.25	Aug	0.2500				
Intrepid 2F	oz					1.0000				
Surfactant	pt					0.0250				
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					65.0000				
Grain Cart Soybean	700 bu	MFWD 190	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							0.61	0.61	1.11	0.48

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		1.28	0.26	0.97			0.11	2.62	1.41	4.03
Lime (Spread)	ton	9.00						0.40	9.40		9.40
Spin Spreader	5 ton		1.32	0.48	1.39			0.14	3.33	1.84	5.17
Phosphorus (46% P2O5)	cwt	24.50						1.08	25.58		25.58
Potash (60% K2O)	cwt	28.32						1.25	29.57		29.57
Disk Harrow	24'		2.56	1.40	1.95			0.26	6.17	4.58	10.75
Field Cultivate Fld	24'		1.95	0.73	1.48			0.18	4.34	3.64	7.98
Bed-Roll-Fold.	12R-30		1.96	0.78	1.49			0.19	4.42	3.14	7.56
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
2,4-D Amine 4	pt	4.88						0.14	5.02		5.02
Plant & Pre-Folding	12R-30		2.12	2.09	2.22			0.14	6.57	5.36	11.93
Soybean Seed RR2	lb	59.50						1.31	60.81		60.81
CruiserMaxx	oz	6.64						0.15	6.79		6.79
Nitrastick S	lbseed	1.25						0.03	1.28		1.28
Valor SX	oz	12.30						0.27	12.57		12.57
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50						0.08	4.58		4.58
Prefix	pt	12.52						0.23	12.75		12.75
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50						0.08	4.58		4.58
App by Air (5 gal)	appl	3.00						0.03	3.03		3.03
Quadris	oz	8.58						0.09	8.67		8.67
App by Air (5 gal)	appl	3.00						0.03	3.03		3.03
Karate Z	oz	2.74						0.03	2.77		2.77
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Acephate 90SP	lb	5.42						0.04	5.46		5.46
App by Air (5 gal)	appl	1.50						0.01	1.51		1.51
Intrepid 2F	oz	2.00						0.01	2.01		2.01
Surfactant	pt	0.09							0.09		0.09
App by Air (5 gal)	appl	6.00						0.04	6.04		6.04
Paraquat	oz	5.28						0.04	5.32		5.32
Sodium Chlorate 3L	gal	3.50						0.03	3.53		3.53
Surfactant	pt	0.72						0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43			0.04	10.87	13.07	23.94
Haul Soybeans	bu	17.55						0.06	17.61		17.61
Grain Cart Soybean	700 bu		0.67	0.31	0.51			0.01	1.50	1.01	2.51
Roll-Out Pipe Irr.	acre	8.58	25.52	6.72	4.30			0.67	45.79	52.48	98.27
TOTALS		252.37	43.60	17.27	18.34	0.00		7.61	339.19	88.63	427.82

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 11.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, 2015

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	627.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	6.00	13.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	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	6.64	0.00	0.00	8.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.38	0.00	12.30	21.52	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	2.74	7.42	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	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	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	17.55
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	7.76	0.00	0.00	0.00	0.00	0.00	2.22	1.83	2.78	0.23	0.00	3.52
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.26	0.00	0.00	0.00	0.00	0.00	2.12	1.76	16.11	7.82	0.00	5.53
REPAIR & MAINTENANCE	3.94	0.00	0.00	0.00	0.00	0.00	2.09	0.56	5.07	1.26	0.00	4.35
INTEREST ON OP. CAP.	3.70	0.00	0.00	0.00	0.45	0.00	1.90	0.47	0.48	0.28	0.22	0.11
TOTAL DIRECT EXPENSES	87.48	0.00	0.00	0.00	15.83	0.00	88.02	26.14	33.02	26.91	30.73	31.06
NET INCOME	-87.48	0.00	0.00	0.00	-15.83	0.00	-88.02	-26.14	-33.02	-26.91	-30.73	596.84
NET INCOME TO DATE	-87.48	-87.48	-87.48	-87.48	-103.31	-103.31	-191.33	-217.47	-250.49	-277.40	-308.13	288.71

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 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, early-planted, RR, stale seedbed, 12R 30"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
			dollars										
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT											
50	32.50	bu	-94 -183	-79 -167	-63 -152	-47 -136	-32 -120	-16 -105	-0 -89	14 -73	30 -57	46 -42	62 -26
60	39.00	bu	-49 -138	-30 -119	-11 -100	6 -81	25 -62	44 -44	63 -25	82 -6	101 12	119 31	138 50
70	45.50	bu	-4 -92	17 -70	39 -48	61 -26	83 -4	105 16	127 38	149 60	171 82	193 104	215 126
80	52.00	bu	41 -47	66 -22	91 2	116 27	141 52	166 78	191 103	216 128	242 153	267 178	292 203
90	58.50	bu	86 -2	114 26	142 54	171 82	199 110	227 139	255 167	284 195	312 223	340 252	368 280
100	65.00	bu	131 43	163 74	194 105	225 137	257 168	288 200	320 231	351 262	382 294	414 325	445 357
110	71.50	bu	177 88	211 122	246 157	280 192	315 226	349 261	384 295	418 330	453 364	487 399	522 433
120	78.00	bu	222 133	260 171	297 209	335 246	373 284	410 322	448 359	486 397	523 435	561 472	599 510
130	84.50	bu	267 179	308 219	349 260	390 301	430 342	471 383	512 423	553 464	594 505	635 546	675 587
140	91.00	bu	313 224	357 268	400 312	444 356	488 400	532 444	576 488	620 532	664 576	708 620	752 663
150	97.50	bu	358 269	405 316	452 363	499 411	546 458	593 505	640 552	688 599	735 646	782 693	829 740

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 2014 input prices.

Table 12.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.5000	21.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	4.5000	12.87	_____
HERBICIDES					
Valor SX	oz	6.15	2.0000	12.30	_____
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Prefix	pt	6.26	2.0000	12.52	_____
INSECTICIDES					
Karate Z	oz	2.85	1.4400	4.10	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	3.0000	6.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.2750	0.99	_____
HAULING					
Haul Soybeans	bu	0.27	30.0000	8.10	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.3928	4.93	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1379	1.25	_____
UNALLOCATED LABOR	hour	12.52	0.4455	5.58	_____
DIESEL FUEL					
Tractors	gal	3.20	3.8419	12.30	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	4.97	1.0000	4.97	_____
Tractors	acre	2.05	1.0000	2.05	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	6.50	1.0000	6.50	_____
TOTAL DIRECT EXPENSES				276.71	_____
FIXED EXPENSES					
Implements	acre	9.79	1.0000	9.79	_____
Tractors	acre	12.50	1.0000	12.50	_____
Harvesters	acre	11.86	1.0000	11.86	_____
TOTAL FIXED EXPENSES				34.15	_____
TOTAL SPECIFIED EXPENSES				310.86	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	30.0000	289.80	_____

TOTAL INCOME				289.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.00	1.0000	21.00	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	19.51	1.0000	19.51	_____
HERBICIDES	acre	33.82	1.0000	33.82	_____
INSECTICIDES	acre	15.52	1.0000	15.52	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.99	1.0000	0.99	_____
HAULING	acre	8.10	1.0000	8.10	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
OPERATOR LABOR	hour	12.55	0.4950	6.21	_____
UNALLOCATED LABOR	hour	12.52	0.4455	5.58	_____
DIESEL FUEL	gal	3.20	5.2355	16.76	_____
REPAIR & MAINTENANCE	acre	10.12	1.0000	10.12	_____
INTEREST ON OP. CAP.	acre	6.50	1.0000	6.50	_____

TOTAL DIRECT EXPENSES				276.71	_____
RETURNS ABOVE DIRECT EXPENSES				13.09	_____
TOTAL FIXED EXPENSES				34.15	_____

TOTAL SPECIFIED EXPENSES				310.86	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-21.06	_____

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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 190	0.204	0.20	Nov		0.04	0.04	0.04	0.03
Disk Harrow	24'	MFWD 190	0.081	0.25	Nov		0.02	0.02	0.02	0.01
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
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				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
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			0.75	Jul	0.7500				
Quadris	oz					4.5000				
Karate Z	oz					1.4400				
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				
Intrepid 2F	oz					3.0000				
Surfactant	pt					0.0750				
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					30.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.49	0.49	0.63	0.44

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		1.28	0.26	0.97		0.11	2.62	1.41	4.03
Disk Harrow	24'		0.64	0.35	0.49		0.07	1.55	1.14	2.69
Lime (Spread)	ton	9.00					0.40	9.40		9.40
Spin Spreader	5 ton		1.32	0.48	1.39		0.14	3.33	1.84	5.17
Phosphorus (46% P2O5)	cwt	24.50					1.08	25.58		25.58
Potash (60% K2O)	cwt	28.32					1.25	29.57		29.57
Disk Harrow	24'		2.56	1.40	1.95		0.15	6.06	4.58	10.64
Field Cultivate Fld	24'		1.95	0.73	1.48		0.09	4.25	3.64	7.89
Plant & Pre-Folding	12R-30		2.12	2.09	2.22		0.14	6.57	5.36	11.93
Soybean Seed RR2	lb	59.50					1.31	60.81		60.81
CruiserMaxx	oz	6.64					0.15	6.79		6.79
Nitrastick S	lbseed	1.25					0.03	1.28		1.28
Valor SX	oz	12.30					0.27	12.57		12.57
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.10	4.60		4.60
Prefix	pt	12.52					0.28	12.80		12.80
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.08	4.58		4.58
App by Air (5 gal)	appl	4.50					0.07	4.57		4.57
Quadris	oz	12.87					0.19	13.06		13.06
Karate Z	oz	4.10					0.06	4.16		4.16
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Acephate 90SP	lb	5.42					0.06	5.48		5.48
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Intrepid 2F	oz	6.00					0.07	6.07		6.07
Surfactant	pt	0.27						0.27		0.27
App by Air (5 gal)	appl	6.00					0.04	6.04		6.04
Paraquat	oz	5.28					0.04	5.32		5.32
Sodium Chlorate 3L	gal	3.50					0.03	3.53		3.53
Surfactant	pt	0.72					0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43		0.04	10.87	13.07	23.94
Haul Soybeans	bu	8.10					0.03	8.13		8.13
Grain Cart Soybean	700 bu		0.67	0.31	0.51		0.01	1.50	1.01	2.51
TOTALS		230.29	16.76	10.12	13.04	0.00	6.50	276.71	34.15	310.86

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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	289.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50	10.50	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	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	6.64	0.00	12.87	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	29.32	4.50	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	4.10	11.42	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.72	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	8.10
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	2.85	0.00	0.00	0.00	0.00	1.95	4.50	0.80	0.00	0.00	0.00	2.94
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	3.24	0.00	0.00	0.00	0.00	2.56	4.95	0.88	0.00	0.00	0.00	5.13
REPAIR & MAINTENANCE	1.09	0.00	0.00	0.00	0.00	1.40	3.10	0.28	0.00	0.00	0.00	4.25
INTEREST ON OP. CAP.	3.05	0.00	0.00	0.00	0.00	0.15	2.41	0.12	0.32	0.25	0.12	0.08
TOTAL DIRECT EXPENSES	72.05	0.00	0.00	0.00	0.00	6.06	111.67	6.58	21.79	22.44	15.62	20.50
NET INCOME	-72.05	0.00	0.00	0.00	0.00	-6.06	-111.67	-6.58	-21.79	-22.44	-15.62	269.30
NET INCOME TO DATE	-72.05	-72.05	-72.05	-72.05	-72.05	-78.11	-189.78	-196.36	-218.15	-240.59	-256.21	13.09

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 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, May-planted, RR, 12R 30"
 Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	15.00	bu	-163 -198	-156 -190	-149 -183	-142 -176	-134 -169	-127 -161	-120 -154	-113 -147	-106 -140	-98 -132	-91 -125
60	18.00	bu	-143 -177	-134 -168	-125 -159	-116 -151	-108 -142	-99 -133	-90 -125	-82 -116	-73 -107	-64 -98	-56 -90
70	21.00	bu	-122 -156	-111 -146	-101 -135	-91 -125	-81 -115	-71 -105	-61 -95	-51 -85	-40 -75	-30 -64	-20 -54
80	24.00	bu	-101 -135	-89 -123	-78 -112	-66 -100	-54 -88	-43 -77	-31 -65	-20 -54	-8 -42	3 -31	14 -19
90	27.00	bu	-80 -114	-67 -101	-54 -88	-41 -75	-28 -62	-15 -49	-2 -36	11 -23	24 -10	37 2	50 15
100	30.00	bu	-59 -93	-44 -79	-30 -64	-15 -50	-1 -35	13 -21	27 -6	42 7	56 22	71 36	85 51
110	33.00	bu	-38 -72	-22 -56	-6 -40	9 -24	25 -8	41 7	57 23	73 38	89 54	105 70	120 86
120	36.00	bu	-17 -51	-0 -34	17 -16	34 0	52 17	69 35	86 52	104 70	121 87	138 104	156 122
130	39.00	bu	3 -30	22 -11	41 6	59 25	78 44	97 63	116 82	135 101	154 119	172 138	191 157
140	42.00	bu	24 -9	44 10	64 30	85 51	105 71	125 91	146 111	166 132	186 152	206 172	227 193
150	45.00	bu	45 11	66 32	88 54	110 76	132 98	153 119	175 141	197 163	219 184	240 206	262 228

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 13.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	6.0000	17.16	_____
HERBICIDES					
Valor SX	oz	6.15	2.0000	12.30	_____
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Prefix	pt	6.26	2.0000	12.52	_____
INSECTICIDES					
Karate Z	oz	2.85	1.9200	5.47	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	4.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.3000	1.08	_____
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	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.6162	7.74	_____
Harvesters	hour	12.55	0.1021	1.28	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.1379	1.25	_____
UNALLOCATED LABOR					
	hour	12.52	0.4639	5.81	_____
DIESEL FUEL					
Tractors	gal	3.20	5.6297	18.02	_____
Harvesters	gal	3.20	1.3935	4.46	_____
Contour Flood Irr.	gal	3.20	10.9974	35.19	_____
REPAIR & MAINTENANCE					
Implements	acre	5.87	1.0000	5.87	_____
Tractors	acre	2.98	1.0000	2.98	_____
Harvesters	acre	3.10	1.0000	3.10	_____
Contour Flood Irr.	acre	12.44	1.0000	12.44	_____
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	_____
TOTAL DIRECT EXPENSES				358.11	_____
FIXED EXPENSES					
Implements	acre	12.25	1.0000	12.25	_____
Tractors	acre	18.03	1.0000	18.03	_____
Harvesters	acre	11.86	1.0000	11.86	_____
Contour Flood Irr.	acre	36.79	1.0000	36.79	_____
TOTAL FIXED EXPENSES				78.93	_____
TOTAL SPECIFIED EXPENSES				437.04	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	53.0000	511.98	_____

TOTAL INCOME				511.98	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	23.80	1.0000	23.80	_____
HERBICIDES	acre	33.82	1.0000	33.82	_____
INSECTICIDES	acre	18.89	1.0000	18.89	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	1.08	1.0000	1.08	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	12.55	0.7183	9.02	_____
UNALLOCATED LABOR	hour	12.52	0.4639	5.81	_____
DIESEL FUEL	gal	3.20	18.0207	57.67	_____
REPAIR & MAINTENANCE	acre	24.39	1.0000	24.39	_____
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	_____

TOTAL DIRECT EXPENSES				358.11	_____
RETURNS ABOVE DIRECT EXPENSES				153.87	_____
TOTAL FIXED EXPENSES				78.93	_____

TOTAL SPECIFIED EXPENSES				437.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				74.94	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Disk Harrow	24'	MFWD 190	0.081	1.00	Nov		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
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				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
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	oz					6.0000				
Karate Z	oz					1.9200				
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				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
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							0.71	0.71	1.16	0.46

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 13.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Disk Harrow	24'		2.56	1.40	1.95		0.26	6.17	4.58	10.75
Lime (Spread)	ton	9.00					0.40	9.40		9.40
Spin Spreader	5 ton		1.32	0.48	1.39		0.14	3.33	1.84	5.17
Phosphorus (46% P2O5)	cwt	24.50					1.08	25.58		25.58
Potash (60% K2O)	cwt	28.32					1.25	29.57		29.57
Disk Harrow	24'		2.56	1.40	1.95		0.15	6.06	4.58	10.64
Field Cultivate Fld	24'		1.95	0.73	1.48		0.09	4.25	3.64	7.89
Plant & Pre-Folding	12R-30		2.12	2.09	2.22		0.14	6.57	5.36	11.93
Soybean Seed RR2	lb	59.50					1.31	60.81		60.81
CruiserMaxx	oz	6.64					0.15	6.79		6.79
Nitrastick S	lbseed	1.25					0.03	1.28		1.28
Valor SX	oz	12.30					0.27	12.57		12.57
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.10	4.60		4.60
Prefix	pt	12.52					0.28	12.80		12.80
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.08	4.58		4.58
App by Air (5 gal)	appl	6.00					0.09	6.09		6.09
Quadris	oz	17.16					0.25	17.41		17.41
Karate Z	oz	5.47					0.08	5.55		5.55
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Acephate 90SP	lb	5.42					0.06	5.48		5.48
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Intrepid 2F	oz	8.00					0.09	8.09		8.09
Surfactant	pt	0.36						0.36		0.36
App by Air (5 gal)	appl	6.00					0.04	6.04		6.04
Paraquat	oz	5.28					0.04	5.32		5.32
Sodium Chlorate 3L	gal	3.50					0.03	3.53		3.53
Surfactant	pt	0.72					0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43		0.04	10.87	13.07	23.94
Haul Soybeans	bu	14.31					0.05	14.36		14.36
Grain Cart Soybean	700 bu		0.67	0.31	0.51		0.01	1.50	1.01	2.51
Contour Flood Irr.	acre	2.25	40.27	13.48	5.37		0.91	62.28	42.75	105.03
TOTALS		249.50	57.67	24.39	18.90	0.00	7.65	358.11	78.93	437.04

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

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	511.98
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	12.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	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	6.64	0.00	17.16	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	29.32	4.50	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	5.47	13.42	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.72	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	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.34	0.00	0.00	0.00	0.00	1.95	4.95	2.52	1.52	1.52	0.16	2.94
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	3.88	0.00	0.00	0.00	0.00	2.56	4.95	14.50	13.17	13.17	0.31	5.13
REPAIR & MAINTENANCE	1.88	0.00	0.00	0.00	0.00	1.40	3.10	8.07	2.81	2.81	0.07	4.25
INTEREST ON OP. CAP.	3.13	0.00	0.00	0.00	0.00	0.15	2.42	0.57	0.67	0.49	0.12	0.10
TOTAL DIRECT EXPENSES	74.05	0.00	0.00	0.00	0.00	6.06	112.13	32.41	46.80	43.77	16.16	26.73
NET INCOME	-74.05	0.00	0.00	0.00	0.00	-6.06	-112.13	-32.41	-46.80	-43.77	-16.16	485.25
NET INCOME TO DATE	-74.05	-74.05	-74.05	-74.05	-74.05	-80.11	-192.24	-224.65	-271.45	-315.22	-331.38	153.87

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, 12R 30"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-158 -237	-146 -225	-133 -212	-120 -199	-107 -186	-94 -173	-82 -161	-69 -148	-56 -135	-43 -122	-30 -109
60	31.80	bu	-121 -200	-106 -185	-91 -170	-75 -154	-60 -139	-45 -124	-29 -108	-14 -93	0 -78	16 -62	31 -47
70	37.10	bu	-85 -163	-67 -146	-49 -128	-31 -110	-13 -92	4 -74	22 -56	40 -38	58 -20	76 -2	94 15
80	42.40	bu	-48 -126	-27 -106	-7 -86	13 -65	33 -45	54 -24	74 -4	95 16	115 36	136 57	156 77
90	47.70	bu	-11 -90	11 -66	34 -43	58 -20	81 2	104 25	127 48	150 71	173 94	196 117	219 140
100	53.00	bu	25 -53	51 -27	77 -1	102 23	128 49	153 74	179 100	205 126	230 151	256 177	281 202
110	58.30	bu	62 -16	90 12	119 40	147 68	175 96	203 124	231 152	259 181	288 209	316 237	344 265
120	63.60	bu	99 20	130 51	161 82	191 113	222 143	253 174	284 205	314 235	345 266	376 297	406 328
130	68.90	bu	136 57	170 91	203 124	236 157	269 190	303 224	336 257	369 290	402 324	436 357	469 390
140	74.20	bu	173 94	209 130	245 166	281 202	317 238	352 273	388 309	424 345	460 381	496 417	532 453
150	79.50	bu	210 131	249 170	287 208	325 246	364 285	402 323	441 362	479 400	517 438	556 477	594 515

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 2014 input prices.

Table 14.A Estimated costs per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	6.0000	17.16	_____
HERBICIDES					
Valor SX	oz	6.15	2.0000	12.30	_____
Paraquat	oz	0.33	48.0000	15.84	_____
Prefix	pt	6.26	2.0000	12.52	_____
Glyphosate 3lbs a.e	pt	2.25	1.0000	2.25	_____
INSECTICIDES					
Karate Z	oz	2.85	1.7000	4.85	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	4.0000	8.00	_____
Baythroid XL	oz	2.40	2.1300	5.11	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.1000	0.36	_____
HAULING					
Haul Soybeans	bu	0.27	45.0000	12.15	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.1733	2.18	_____
Harvesters	hour	12.55	0.1021	1.28	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.1309	1.18	_____
UNALLOCATED LABOR					
	hour	12.49	0.2369	2.96	_____
DIESEL FUEL					
Tractors	gal	3.20	1.6952	5.43	_____
Harvesters	gal	3.20	1.3935	4.46	_____
1/2-mi Pivot Irr.	gal	3.20	16.4057	52.50	_____
REPAIR & MAINTENANCE					
Implements	acre	3.24	1.0000	3.24	_____
Tractors	acre	0.90	1.0000	0.90	_____
Harvesters	acre	3.10	1.0000	3.10	_____
1/2-mi Pivot Irr.	acre	9.52	1.0000	9.52	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
TOTAL DIRECT EXPENSES				337.15	_____
FIXED EXPENSES					
Implements	acre	5.48	1.0000	5.48	_____
Tractors	acre	5.52	1.0000	5.52	_____
Harvesters	acre	11.86	1.0000	11.86	_____
1/2-mi Pivot Irr.	acre	32.55	1.0000	32.55	_____
TOTAL FIXED EXPENSES				55.41	_____
TOTAL SPECIFIED EXPENSES				392.56	_____

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	45.0000	434.70	_____

TOTAL INCOME				434.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	23.80	1.0000	23.80	_____
HERBICIDES	acre	42.91	1.0000	42.91	_____
INSECTICIDES	acre	23.38	1.0000	23.38	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.36	1.0000	0.36	_____
HAULING	acre	12.15	1.0000	12.15	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1309	1.18	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	12.55	0.2755	3.46	_____
UNALLOCATED LABOR	hour	12.49	0.2369	2.96	_____
DIESEL FUEL	gal	3.20	19.4945	62.39	_____
REPAIR & MAINTENANCE	acre	16.76	1.0000	16.76	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____

TOTAL DIRECT EXPENSES				337.15	_____
RETURNS ABOVE DIRECT EXPENSES				97.55	_____
TOTAL FIXED EXPENSES				55.41	_____

TOTAL SPECIFIED EXPENSES				392.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				42.14	_____

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Paraquat	oz					48.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Quadris	oz					6.0000				
Karate Z	oz					1.7000				
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				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
Baythroid XL	oz					2.1300				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					45.0000				
Grain Cart Soybean	700 bu	MFWD 190	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							0.27	0.27	0.45	0.23

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 14.D Estimated costs for field operations, per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	9.00						0.40	9.40		9.40
Spin Spreader	5 ton		1.32	0.48	1.36			0.14	3.30	1.84	5.14
Phosphorus (46% P2O5)	cwt	24.50						1.08	25.58		25.58
Potash (60% K2O)	cwt	28.32						1.25	29.57		29.57
Plant & Pre-Folding	12R-30		2.12	2.09	2.19			0.12	6.52	5.36	11.88
Soybean Seed RR2	lb	59.50						1.09	60.59		60.59
CruiserMaxx	oz	6.64						0.12	6.76		6.76
Nitrastick S	lbseed	1.25						0.02	1.27		1.27
Valor SX	oz	12.30						0.23	12.53		12.53
Spray (Broadcast)	60'		0.88	0.28	0.78			0.04	1.98	1.05	3.03
Paraquat	oz	15.84						0.29	16.13		16.13
Prefix	pt	12.52						0.23	12.75		12.75
Spray (Broadcast)	60'		0.44	0.14	0.39			0.01	0.98	0.53	1.51
Glyphosate 3lbs a.e	pt	2.25						0.03	2.28		2.28
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Quadris	oz	17.16						0.19	17.35		17.35
Karate Z	oz	4.85						0.05	4.90		4.90
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Acephate 90SP	lb	5.42						0.06	5.48		5.48
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Intrepid 2F	oz	8.00						0.09	8.09		8.09
Surfactant	pt	0.36							0.36		0.36
Baythroid XL	oz	5.11						0.06	5.17		5.17
Header -Soybean	25' Flex		4.46	3.94	2.38			0.04	10.82	13.07	23.89
Haul Soybeans	bu	12.15						0.04	12.19		12.19
Grain Cart Soybean	700 bu		0.67	0.31	0.50			0.01	1.49	1.01	2.50
1/2-mi Pivot Irr.	acre		52.50	9.52	0.47			0.96	63.45	32.55	96.00
TOTALS		243.17	62.39	16.76	8.07	0.00		6.76	337.15	55.41	392.56

Note: Cost of production estimates are based on 2014 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.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

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	434.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
FERTILIZERS	52.82	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	6.64	0.00	17.16	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.66	2.25	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	23.38	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	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	12.15
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.25	0.00	0.00	0.00	0.00
LABOR	1.36	0.00	0.00	0.00	0.00	0.00	0.34	3.01	0.44	0.04	0.00	2.88
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	1.32	0.00	0.00	0.00	0.00	0.00	0.00	18.75	21.44	15.75	0.00	5.13
REPAIR & MAINTENANCE	0.48	0.00	0.00	0.00	0.00	0.00	0.00	10.70	0.82	0.51	0.00	4.25
INTEREST ON OP. CAP.	2.87	0.00	0.00	0.00	0.00	0.00	0.01	2.59	0.36	0.84	0.00	0.09
TOTAL DIRECT EXPENSES	67.85	0.00	0.00	0.00	0.00	0.00	0.35	143.10	25.31	76.04	0.00	24.50
NET INCOME	-67.85	0.00	0.00	0.00	0.00	0.00	-0.35	-143.10	-25.31	-76.04	0.00	410.20
NET INCOME TO DATE	-67.85	-67.85	-67.85	-67.85	-67.85	-67.85	-68.20	-211.30	-236.61	-312.65	-312.65	97.55

Note: Cost of production estimates are based on 2014 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. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$14 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Soybeans after wheat, RR, 12R 30"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	22.50	bu	-168 -223	-157 -212	-146 -201	-135 -190	-124 -179	-113 -169	-102 -158	-91 -147	-81 -136	-70 -125	-59 -114
60	27.00	bu	-136 -192	-123 -179	-110 -165	-97 -152	-84 -139	-71 -126	-58 -113	-45 -100	-32 -87	-19 -74	-6 -61
70	31.50	bu	-105 -160	-90 -145	-74 -130	-59 -115	-44 -99	-29 -84	-13 -69	1 -54	16 -38	31 -23	46 -8
80	36.00	bu	-73 -129	-56 -111	-39 -94	-21 -77	-4 -59	13 -42	30 -24	47 -7	65 9	82 27	99 44
90	40.50	bu	-42 -97	-22 -78	-3 -58	16 -39	35 -19	55 -0	74 19	94 39	113 58	133 78	153 97
100	45.00	bu	-11 -66	10 -44	32 -23	54 -1	75 20	97 42	119 63	141 85	162 107	184 129	206 150
110	49.50	bu	20 -35	44 -11	68 12	91 36	115 60	139 84	163 108	187 132	211 156	235 180	259 203
120	54.00	bu	51 -3	77 22	103 48	129 74	155 100	182 126	208 152	234 178	260 204	286 230	312 257
130	58.50	bu	83 27	111 55	139 84	167 112	196 140	224 168	252 197	280 225	309 253	337 281	365 310
140	63.00	bu	114 58	144 89	175 119	205 150	236 180	266 211	296 241	327 272	357 302	388 332	418 363
150	67.50	bu	145 90	178 122	210 155	243 188	276 220	308 253	341 285	374 318	406 351	439 383	471 416

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 2014 input prices.

Table 15.A Estimated costs per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	29.00	1.8000	52.20	_____
Potash (60% K2O)	cwt	23.60	1.3750	32.45	_____
Fert 10-34-0	cwt	26.00	0.5000	13.00	_____
UAN + Sulfur (28%)	cwt	17.90	3.5710	63.92	_____
UAN (32% N)	cwt	18.50	4.3750	80.94	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
Clarity	pt	11.88	0.5000	5.94	_____
Atrazine 4L	pt	1.93	4.0000	7.72	_____
Halex GT	pt	5.96	3.6000	21.46	_____
INSECTICIDES					
Intrepid 2F	oz	2.00	4.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.47	30.0000	104.10	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Corn	bu	0.23	185.0000	42.55	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4883	6.14	_____
Harvesters	hour	12.55	0.1009	1.27	_____
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	0.1752	1.59	_____
UNALLOCATED LABOR	hour	12.57	0.4597	5.78	_____
DIESEL FUEL					
Tractors	gal	3.20	4.6505	14.88	_____
Harvesters	gal	3.20	1.6890	5.40	_____
Roll-Out Pipe Irr.	gal	3.20	10.5901	33.88	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	2.48	1.0000	2.48	_____
Harvesters	acre	3.42	1.0000	3.42	_____
Roll-Out Pipe Irr.	acre	5.96	1.0000	5.96	_____
INTEREST ON OP. CAP.	acre	13.83	1.0000	13.83	_____
TOTAL DIRECT EXPENSES				590.46	_____
FIXED EXPENSES					
Implements	acre	9.74	1.0000	9.74	_____
Tractors	acre	14.96	1.0000	14.96	_____
Harvesters	acre	13.08	1.0000	13.08	_____
Roll-Out Pipe Irr.	acre	49.19	1.0000	49.19	_____
TOTAL FIXED EXPENSES				86.97	_____
TOTAL SPECIFIED EXPENSES				677.43	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 15.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.50	185.0000	647.50	_____

TOTAL INCOME				647.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	242.51	1.0000	242.51	_____
HERBICIDES	acre	39.62	1.0000	39.62	_____
INSECTICIDES	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	104.10	1.0000	104.10	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	42.55	1.0000	42.55	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	12.55	0.5893	7.41	_____
UNALLOCATED LABOR	hour	12.57	0.4597	5.78	_____
DIESEL FUEL	gal	3.20	16.9298	54.16	_____
REPAIR & MAINTENANCE	acre	19.05	1.0000	19.05	_____
INTEREST ON OP. CAP.	acre	13.83	1.0000	13.83	_____

TOTAL DIRECT EXPENSES				590.46	_____
RETURNS ABOVE DIRECT EXPENSES				57.04	_____
TOTAL FIXED EXPENSES				86.97	_____

TOTAL SPECIFIED EXPENSES				677.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-29.93	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 15.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.3750				
Bed/Disk w/roller	8R-38	MFWD 190	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				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					30.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
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 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					185.0000				
Stalk Shredder Flex	20'	MFWD 190	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							0.58	0.58	1.15	0.45

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 15.D Estimated costs for field operations, per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Spin Spreader	5 ton		1.32	0.48	1.39			0.14	3.33	1.84	5.17
DAP	cwt	52.20						2.30	54.50		54.50
Potash (60% K2O)	cwt	32.45						1.43	33.88		33.88
Bed/Disk w/roller	8R-38		2.32	0.86	1.77			0.22	5.17	3.56	8.73
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
Clarity	pt	5.94						0.17	6.11		6.11
Plant & Pre-Rigid	8R-38		2.51	1.55	2.65			0.17	6.88	4.64	11.52
Corn Seed BtRR	thous	104.10						2.67	106.77		106.77
Fert 10-34-0	cwt	13.00						0.33	13.33		13.33
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
UAN + Sulfur (28%)	cwt	63.92						1.41	65.33		65.33
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Atrazine 4L	pt	7.72						0.17	7.89		7.89
Halex GT	pt	21.46						0.47	21.93		21.93
Fert Appl (Liquid)	8R-38		2.43	1.31	2.20			0.11	6.05	3.45	9.50
UAN (32% N)	cwt	80.94						1.48	82.42		82.42
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	8.00						0.12	8.12		8.12
Header - Corn	8R-38		5.40	4.87	2.41			0.05	12.73	15.19	27.92
Grain Cart Corn	700 bu		0.78	0.36	0.59			0.01	1.74	1.19	2.93
Haul Corn	bu	42.55						0.16	42.71		42.71
Stalk Shredder Flex	20'		2.58	2.88	1.97			0.03	7.46	4.05	11.51
Roll-Out Pipe Irr.	acre	8.58	35.94	6.46	4.53			0.84	56.35	52.00	108.35
TOTALS		485.11	54.16	19.05	18.31	0.00	13.83	590.46	86.97	677.43	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 15.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

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	647.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	84.65	0.00	0.00	0.00	0.00	13.00	63.92	80.94	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.44	0.00	29.18	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	8.00	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	104.10	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	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.55
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.64	0.00	0.00	0.00	0.00	2.65	0.80	2.43	3.01	0.23	0.58	4.97
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	4.83	0.00	0.00	0.00	0.00	2.51	0.88	2.43	25.88	8.47	0.40	8.76
REPAIR & MAINTENANCE	1.63	0.00	0.00	0.00	0.00	1.55	0.28	1.31	5.19	0.88	0.10	8.11
INTEREST ON OP. CAP.	5.17	0.00	0.00	0.00	0.48	3.17	2.23	1.59	0.83	0.10	0.01	0.25
TOTAL DIRECT EXPENSES	122.42	0.00	0.00	0.00	16.92	126.98	103.79	88.70	56.24	9.68	1.09	64.64
NET INCOME	-122.42	0.00	0.00	0.00	-16.92	-126.98	-103.79	-88.70	-56.24	-9.68	-1.09	582.86
NET INCOME TO DATE	-122.42	-122.42	-122.42	-122.42	-139.34	-266.32	-370.11	-458.81	-515.05	-524.73	-525.82	57.04

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE-----										
-----			2.62	2.80	2.97	3.15	3.32	3.50	3.67	3.85	4.02	4.20	4.37
PERCENT	YIELD	UNIT	-----dollars-----										
50	92.50	bu	-326 -413	-310 -397	-293 -380	-277 -364	-261 -348	-245 -332	-229 -316	-212 -299	-196 -283	-180 -267	-164 -251
60	111.00	bu	-282 -368	-262 -349	-243 -330	-223 -310	-204 -291	-184 -271	-165 -252	-146 -232	-126 -213	-107 -194	-87 -174
70	129.50	bu	-237 -324	-215 -302	-192 -279	-169 -256	-147 -234	-124 -211	-101 -188	-79 -166	-56 -143	-33 -120	-11 -98
80	148.00	bu	-193 -280	-167 -254	-141 -228	-115 -202	-89 -176	-63 -150	-38 -124	-12 -99	13 -73	39 -47	65 -21
90	166.50	bu	-149 -236	-119 -206	-90 -177	-61 -148	-32 -119	-3 -90	25 -61	54 -32	83 -2	113 26	142 55
100	185.00	bu	-104 -191	-72 -159	-40 -127	-7 -94	24 -62	57 -29	89 2	121 34	154 67	186 99	218 131
110	203.50	bu	-60 -147	-24 -111	10 -76	46 -40	81 -5	117 30	153 66	188 101	224 137	259 172	295 208
120	222.00	bu	-16 -103	22 -64	61 -25	100 13	139 52	177 91	216 129	255 168	294 207	333 246	372 285
130	240.50	bu	28 -58	70 -16	112 25	154 67	196 109	238 151	280 193	322 235	364 277	406 319	448 361
140	259.00	bu	72 -14	117 30	162 76	208 121	253 166	298 211	344 257	389 302	434 347	480 393	525 438
150	277.50	bu	116 29	165 78	213 126	262 175	310 223	359 272	407 321	456 369	505 418	553 466	602 515

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 2014 input prices.

Table 16.A Estimated costs per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	29.00	1.0870	31.52	_____
Potash (60% K2O)	cwt	23.60	0.8300	19.59	_____
Fert 10-34-0	cwt	26.00	0.5000	13.00	_____
UAN + Sulfur (28%)	cwt	17.90	2.1430	38.36	_____
UAN (32% N)	cwt	18.50	3.2815	60.71	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
Clarity	pt	11.88	0.5000	5.94	_____
Atrazine 4L	pt	1.93	4.0000	7.72	_____
Halex GT	pt	5.96	3.6000	21.46	_____
INSECTICIDES					
Intrepid 2F	oz	2.00	4.0000	8.00	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.47	26.0000	90.22	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Corn	bu	0.23	135.0000	31.05	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4098	5.14	_____
Harvesters	hour	12.55	0.1009	1.27	_____
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	_____
UNALLOCATED LABOR	hour	12.57	0.4597	5.78	_____
DIESEL FUEL					
Tractors	gal	3.20	4.0079	12.82	_____
Harvesters	gal	3.20	1.3770	4.41	_____
REPAIR & MAINTENANCE					
Implements	acre	7.02	1.0000	7.02	_____
Tractors	acre	2.15	1.0000	2.15	_____
Harvesters	acre	3.06	1.0000	3.06	_____
INTEREST ON OP. CAP.	acre	10.16	1.0000	10.16	_____
TOTAL DIRECT EXPENSES				425.22	_____
FIXED EXPENSES					
Implements	acre	8.85	1.0000	8.85	_____
Tractors	acre	13.04	1.0000	13.04	_____
Harvesters	acre	11.72	1.0000	11.72	_____
TOTAL FIXED EXPENSES				33.61	_____
TOTAL SPECIFIED EXPENSES				458.83	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 16.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.50	135.0000	472.50	_____

TOTAL INCOME				472.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	163.18	1.0000	163.18	_____
HERBICIDES	acre	39.62	1.0000	39.62	_____
INSECTICIDES	acre	8.00	1.0000	8.00	_____
SEED/PLANTS	acre	90.22	1.0000	90.22	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	31.05	1.0000	31.05	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
OPERATOR LABOR	hour	12.55	0.5107	6.41	_____
UNALLOCATED LABOR	hour	12.57	0.4597	5.78	_____
DIESEL FUEL	gal	3.20	5.3850	17.23	_____
REPAIR & MAINTENANCE	acre	12.23	1.0000	12.23	_____
INTEREST ON OP. CAP.	acre	10.16	1.0000	10.16	_____

TOTAL DIRECT EXPENSES				425.22	_____
RETURNS ABOVE DIRECT EXPENSES				47.28	_____
TOTAL FIXED EXPENSES				33.61	_____

TOTAL SPECIFIED EXPENSES				458.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				13.67	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 16.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	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	8R-38	MFWD 190	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				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					26.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
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 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.51	0.51	0.68	0.45

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 16.D Estimated costs for field operations, per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Spin Spreader	5 ton		1.32	0.48	1.39			0.14	3.33	1.84	5.17
DAP	cwt	31.52						1.39	32.91		32.91
Potash (60% K2O)	cwt	19.59						0.86	20.45		20.45
Bed/Disk w/roller	8R-38		2.32	0.86	1.77			0.22	5.17	3.56	8.73
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
Clarity	pt	5.94						0.17	6.11		6.11
Plant & Pre-Rigid	8R-38		2.51	1.55	2.65			0.17	6.88	4.64	11.52
Corn Seed BtRR	thous	90.22						2.32	92.54		92.54
Fert 10-34-0	cwt	13.00						0.33	13.33		13.33
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
UAN + Sulfur (28%)	cwt	38.36						0.84	39.20		39.20
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Atrazine 4L	pt	7.72						0.17	7.89		7.89
Halex GT	pt	21.46						0.47	21.93		21.93
Fert Appl (Liquid)	8R-38		2.43	1.31	2.20			0.11	6.05	3.45	9.50
UAN (32% N)	cwt	60.71						1.11	61.82		61.82
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	8.00						0.12	8.12		8.12
Header - Corn	8R-38		4.41	4.51	2.41			0.04	11.37	13.83	25.20
Grain Cart Corn	700 bu		0.78	0.36	0.59			0.01	1.74	1.19	2.93
Haul Corn	bu	31.05						0.11	31.16		31.16
Stalk Shredder Flex	20'		2.58	2.88	1.97			0.03	7.46	4.05	11.51
TOTALS		371.82	17.23	12.23	13.78	0.00	10.16	425.22	33.61	458.83	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 16.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

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	472.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	51.11	0.00	0.00	0.00	0.00	13.00	38.36	60.71	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.44	0.00	29.18	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	8.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	90.22	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	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.05
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.16	0.00	0.00	0.00	0.00	2.65	0.80	2.20	0.00	0.00	0.00	4.97
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	3.64	0.00	0.00	0.00	0.00	2.51	0.88	2.43	0.00	0.00	0.00	7.77
REPAIR & MAINTENANCE	1.34	0.00	0.00	0.00	0.00	1.55	0.28	1.31	0.00	0.00	0.00	7.75
INTEREST ON OP. CAP.	3.60	0.00	0.00	0.00	0.48	2.82	1.66	1.22	0.19	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	85.35	0.00	0.00	0.00	16.92	112.75	77.66	67.87	12.94	0.00	0.00	51.73
NET INCOME	-85.35	0.00	0.00	0.00	-16.92	-112.75	-77.66	-67.87	-12.94	0.00	0.00	420.77
NET INCOME TO DATE	-85.35	-85.35	-85.35	-85.35	-102.27	-215.02	-292.68	-360.55	-373.49	-373.49	-373.49	47.28

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.62	2.80	2.97	3.15	3.32	3.50	3.67	3.85	4.02	4.20	4.37		
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-232 -266	-220 -254	-208 -242	-197 -230	-185 -218	-173 -207	-161 -195	-149 -183	-137 -171	-126 -159	-114 -147
60	81.00	bu	-200 -233	-185 -219	-171 -205	-157 -191	-143 -177	-129 -162	-115 -148	-100 -134	-86 -120	-72 -106	-58 -91
70	94.50	bu	-167 -201	-151 -184	-134 -168	-118 -151	-101 -135	-85 -118	-68 -102	-52 -85	-35 -69	-18 -52	-2 -36
80	108.00	bu	-135 -169	-116 -150	-97 -131	-78 -112	-59 -93	-40 -74	-22 -55	-3 -36	15 -17	34 1	53 19
90	121.50	bu	-103 -136	-81 -115	-60 -94	-39 -72	-18 -51	3 -30	24 -9	45 12	66 33	88 54	109 75
100	135.00	bu	-70 -104	-47 -80	-23 -57	0 -33	23 -9	47 13	70 37	94 60	118 84	141 108	165 131
110	148.50	bu	-38 -72	-12 -46	13 -20	39 5	65 31	91 57	117 83	143 109	169 135	195 161	221 187
120	162.00	bu	-6 -39	22 -11	50 16	78 45	107 73	135 101	163 130	192 158	220 186	248 215	277 243
130	175.50	bu	26 -7	56 23	87 53	118 84	148 115	179 146	210 176	241 207	271 238	302 268	333 299
140	189.00	bu	58 24	91 57	124 90	157 124	190 157	223 190	256 223	289 256	323 289	356 322	389 355
150	202.50	bu	90 57	126 92	161 128	197 163	232 198	267 234	303 269	338 305	374 340	409 376	445 411

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 2014 input prices.

Table 17.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	29.00	1.8000	52.20	_____
Potash (60% K2O)	cwt	23.60	1.3750	32.45	_____
UAN + Sulfur (28%)	cwt	17.90	3.5710	63.92	_____
UAN (32% N)	cwt	18.50	4.3750	80.94	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
Clarity	pt	11.88	0.5000	5.94	_____
Atrazine 4L	pt	1.93	4.0000	7.72	_____
Halex GT	pt	5.96	3.6000	21.46	_____
INSECTICIDES					
Intrepid 2F	oz	2.00	4.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.08	30.0000	92.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Corn	bu	0.23	185.0000	42.55	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.7718	9.70	_____
Harvesters	hour	12.55	0.1009	1.27	_____
Self-Propelled	hour	12.55	0.0176	0.22	_____
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	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	12.53	0.7306	9.16	_____
DIESEL FUEL					
Tractors	gal	3.20	7.4227	23.76	_____
Harvesters	gal	3.20	1.3770	4.41	_____
Self-Propelled	gal	3.20	0.1586	0.51	_____
Roll-Out Pipe Irr.	gal	3.20	10.5901	33.88	_____
REPAIR & MAINTENANCE					
Implements	acre	8.43	1.0000	8.43	_____
Tractors	acre	3.95	1.0000	3.95	_____
Harvesters	acre	3.06	1.0000	3.06	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
Roll-Out Pipe Irr.	acre	5.96	1.0000	5.96	_____
INTEREST ON OP. CAP.	acre	13.89	1.0000	13.89	_____
TOTAL DIRECT EXPENSES				583.79	_____
FIXED EXPENSES					
Implements	acre	13.01	1.0000	13.01	_____
Tractors	acre	23.97	1.0000	23.97	_____
Harvesters	acre	11.72	1.0000	11.72	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
Roll-Out Pipe Irr.	acre	49.19	1.0000	49.19	_____
TOTAL FIXED EXPENSES				98.94	_____
TOTAL SPECIFIED EXPENSES				682.73	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 17.B Summary of estimated costs and returns per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.50	185.0000	647.50	_____

TOTAL INCOME				647.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	229.51	1.0000	229.51	_____
HERBICIDES	acre	39.62	1.0000	39.62	_____
INSECTICIDES	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	92.40	1.0000	92.40	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	42.55	1.0000	42.55	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1642	1.49	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	12.55	0.8904	11.19	_____
UNALLOCATED LABOR	hour	12.53	0.7306	9.16	_____
DIESEL FUEL	gal	3.20	19.5486	62.56	_____
REPAIR & MAINTENANCE	acre	21.56	1.0000	21.56	_____
INTEREST ON OP. CAP.	acre	13.89	1.0000	13.89	_____

TOTAL DIRECT EXPENSES				583.79	_____
RETURNS ABOVE DIRECT EXPENSES				63.71	_____
TOTAL FIXED EXPENSES				98.94	_____

TOTAL SPECIFIED EXPENSES				682.73	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-35.23	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 17.C Estimated resource use for field operations, per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.3750				
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	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				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					30.0000				
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				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
Cultivate	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.06
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 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					185.0000				
Stalk Shredder Flex	20'	MFWD 190	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							0.89	0.87	1.44	0.73

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 17.D Estimated costs for field operations, per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		3.20	0.65	2.43		0.28	6.56	3.54	10.10
Disk Harrow	24'		2.56	1.40	1.95		0.26	6.17	4.58	10.75
Lime (Spread)	ton	22.50					0.99	23.49		23.49
Spin Spreader	5 ton		1.32	0.48	1.39		0.14	3.33	1.84	5.17
DAP	cwt	52.20					2.30	54.50		54.50
Potash (60% K2O)	cwt	32.45					1.43	33.88		33.88
Bed/Disk (Hipper)Rd	8R-38		2.32	0.76	1.77		0.21	5.06	3.30	8.36
App by Air (5 gal)	appl	6.00					0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50					0.13	4.63		4.63
Clarity	pt	5.94					0.17	6.11		6.11
Row Cond Rigid	26'		1.87	0.50	1.42		0.10	3.89	2.68	6.57
Plant - Rigid	8R-38		2.33	1.28	2.46		0.16	6.23	4.00	10.23
Corn Seed RR2	thous	92.40					2.37	94.77		94.77
Custom Apply Fert	acre	6.50					0.14	6.64		6.64
UAN + Sulfur (28%)	cwt	63.92					1.41	65.33		65.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.50		0.03	1.20	1.05	2.25
Atrazine 4L	pt	7.72					0.17	7.89		7.89
Halex GT	pt	21.46					0.47	21.93		21.93
Fert Appl (Liquid)	8R-38		2.43	1.31	2.20		0.11	6.05	3.45	9.50
UAN (32% N)	cwt	80.94					1.48	82.42		82.42
Cultivate	8R-38		2.31	0.81	1.75		0.09	4.96	3.43	8.39
App by Air (3 gal)	appl	4.75					0.07	4.82		4.82
Intrepid 2F	oz	8.00					0.12	8.12		8.12
Header - Corn	8R-38		4.41	4.51	2.41		0.04	11.37	13.83	25.20
Grain Cart Corn	700 bu		0.78	0.36	0.59		0.01	1.74	1.19	2.93
Haul Corn	bu	42.55					0.16	42.71		42.71
Stalk Shredder Flex	20'		2.58	2.88	1.97		0.03	7.46	4.05	11.51
Roll-Out Pipe Irr.	acre	8.58	35.94	6.46	4.53		0.84	56.35	52.00	108.35
TOTALS		460.41	62.56	21.56	25.37	0.00	13.89	583.79	98.94	682.73

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 17.E Estimated monthly income and expense flows per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2015

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	647.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	84.65	0.00	0.00	0.00	0.00	0.00	63.92	80.94	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.44	0.00	29.18	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	8.00	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	92.40	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	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.55
CUSTOM LIME	22.50	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	3.88	0.50	4.18	3.01	0.23	0.58	4.97
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.59	0.00	0.00	0.00	0.00	4.20	0.51	4.74	25.88	8.47	0.40	7.77
REPAIR & MAINTENANCE	3.58	0.00	0.00	0.00	0.00	1.78	0.16	2.12	5.19	0.88	0.10	7.75
INTEREST ON OP. CAP.	5.70	0.00	0.00	0.00	0.48	2.63	2.22	1.68	0.83	0.10	0.01	0.24
TOTAL DIRECT EXPENSES	135.04	0.00	0.00	0.00	16.92	104.89	102.99	93.66	56.24	9.68	1.09	63.28
NET INCOME	-135.04	0.00	0.00	0.00	-16.92	-104.89	-102.99	-93.66	-56.24	-9.68	-1.09	584.22
NET INCOME TO DATE	-135.04	-135.04	-135.04	-135.04	-151.96	-256.85	-359.84	-453.50	-509.74	-519.42	-520.51	63.71

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Corn, conventional tillage, RR seed, 8-row 38",
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.62	2.80	2.97	3.15	3.32	3.50	3.67	3.85	4.02	4.20	4.37		
PERCENT	YIELD	UNIT	dollars										
50	92.50	bu	-319 -418	-303 -402	-287 -386	-271 -370	-254 -353	-238 -337	-222 -321	-206 -305	-190 -289	-173 -272	-157 -256
60	111.00	bu	-275 -374	-255 -354	-236 -335	-217 -315	-197 -296	-178 -277	-158 -257	-139 -238	-119 -218	-100 -199	-81 -180
70	129.50	bu	-231 -329	-208 -307	-185 -284	-163 -261	-140 -239	-117 -216	-95 -194	-72 -171	-49 -148	-27 -126	-4 -103
80	148.00	bu	-186 -285	-160 -259	-134 -233	-109 -207	-83 -182	-57 -156	-31 -130	-5 -104	20 -78	46 -52	72 -26
90	166.50	bu	-142 -241	-113 -212	-84 -183	-55 -153	-25 -124	3 -95	32 -66	61 -37	90 -8	119 20	148 49
100	185.00	bu	-98 -197	-65 -164	-33 -132	-1 -99	31 -67	63 -35	96 -2	128 29	160 61	193 94	225 126
110	203.50	bu	-53 -152	-18 -117	17 -81	52 -45	88 -10	124 25	159 60	195 96	231 132	266 167	302 203
120	222.00	bu	-9 -108	29 -69	68 -30	106 8	145 46	184 85	223 124	262 163	301 202	340 241	378 279
130	240.50	bu	34 -64	76 -22	118 19	160 62	203 104	245 146	287 188	329 230	371 272	413 314	455 356
140	259.00	bu	79 -19	124 25	169 70	214 116	260 161	305 206	350 252	396 297	441 342	486 387	532 433
150	277.50	bu	123 24	171 72	220 121	268 170	317 218	366 267	414 315	463 364	511 412	560 461	608 509

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 2014 input prices.

Table 18.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	29.00	1.0870	31.52	_____
Potash (60% K2O)	cwt	23.60	0.8300	19.59	_____
UAN + Sulfur (28%)	cwt	17.90	2.1430	38.36	_____
UAN (32% N)	cwt	18.50	3.2815	60.71	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
Clarity	pt	11.88	0.5000	5.94	_____
Atrazine 4L	pt	1.93	4.0000	7.72	_____
Halex GT	pt	5.96	3.6000	21.46	_____
INSECTICIDES					
Intrepid 2F	oz	2.00	4.0000	8.00	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.08	26.0000	80.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Corn	bu	0.23	135.0000	31.05	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.6196	7.78	_____
Harvesters	hour	12.55	0.1009	1.27	_____
Self-Propelled	hour	12.55	0.0176	0.22	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	12.53	0.6643	8.33	_____
DIESEL FUEL					
Tractors	gal	3.20	6.0597	19.39	_____
Harvesters	gal	3.20	1.3770	4.41	_____
Self-Propelled	gal	3.20	0.1586	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	7.83	1.0000	7.83	_____
Tractors	acre	3.24	1.0000	3.24	_____
Harvesters	acre	3.06	1.0000	3.06	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
INTEREST ON OP. CAP.	acre	10.18	1.0000	10.18	_____
TOTAL DIRECT EXPENSES				416.55	_____
FIXED EXPENSES					
Implements	acre	11.03	1.0000	11.03	_____
Tractors	acre	19.71	1.0000	19.71	_____
Harvesters	acre	11.72	1.0000	11.72	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
TOTAL FIXED EXPENSES				43.51	_____
TOTAL SPECIFIED EXPENSES				460.06	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 18.B Summary of estimated costs and returns per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.50	135.0000	472.50	_____

TOTAL INCOME				472.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	150.18	1.0000	150.18	_____
HERBICIDES	acre	39.62	1.0000	39.62	_____
INSECTICIDES	acre	8.00	1.0000	8.00	_____
SEED/PLANTS	acre	80.08	1.0000	80.08	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	31.05	1.0000	31.05	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1642	1.49	_____
OPERATOR LABOR	hour	12.55	0.7382	9.27	_____
UNALLOCATED LABOR	hour	12.53	0.6643	8.33	_____
DIESEL FUEL	gal	3.20	7.5954	24.31	_____
REPAIR & MAINTENANCE	acre	14.29	1.0000	14.29	_____
INTEREST ON OP. CAP.	acre	10.18	1.0000	10.18	_____

TOTAL DIRECT EXPENSES				416.55	_____
RETURNS ABOVE DIRECT EXPENSES				55.95	_____
TOTAL FIXED EXPENSES				43.51	_____

TOTAL SPECIFIED EXPENSES				460.06	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				12.44	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 18.C Estimated resource use for field operations, per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

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 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	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 190	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				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					26.0000				
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				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
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 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.73	0.72	0.90	0.66

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 18.D Estimated costs for field operations, per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		3.20	0.65	2.43			0.28	6.56	3.54	10.10
Disk Harrow	24'		2.56	1.40	1.95			0.26	6.17	4.58	10.75
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Spin Spreader	5 ton		1.32	0.48	1.39			0.14	3.33	1.84	5.17
DAP	cwt	31.52						1.39	32.91		32.91
Potash (60% K2O)	cwt	19.59						0.86	20.45		20.45
Bed/Disk (Hipper)Rd	8R-38		2.32	0.76	1.77			0.21	5.06	3.30	8.36
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
Clarity	pt	5.94						0.17	6.11		6.11
Row Cond Rigid	26'		1.87	0.50	1.42			0.10	3.89	2.68	6.57
Plant - Rigid	8R-38		2.33	1.28	2.46			0.16	6.23	4.00	10.23
Corn Seed RR2	thous	80.08						2.06	82.14		82.14
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
UAN + Sulfur (28%)	cwt	38.36						0.84	39.20		39.20
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.50			0.03	1.20	1.05	2.25
Atrazine 4L	pt	7.72						0.17	7.89		7.89
Halex GT	pt	21.46						0.47	21.93		21.93
Fert Appl (Liquid)	8R-38		2.43	1.31	2.20			0.11	6.05	3.45	9.50
UAN (32% N)	cwt	60.71						1.11	61.82		61.82
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	8.00						0.12	8.12		8.12
Header - Corn	8R-38		4.41	4.51	2.41			0.04	11.37	13.83	25.20
Grain Cart Corn	700 bu		0.78	0.36	0.59			0.01	1.74	1.19	2.93
Haul Corn	bu	31.05						0.11	31.16		31.16
Stalk Shredder Flex	20'		2.58	2.88	1.97			0.03	7.46	4.05	11.51
TOTALS		348.68	24.31	14.29	19.09	0.00	10.18	416.55	43.51	460.06	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 18.E Estimated monthly income and expense flows per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

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	472.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	51.11	0.00	0.00	0.00	0.00	0.00	38.36	60.71	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.44	0.00	29.18	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	8.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	80.08	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	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.05
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.54	0.00	0.00	0.00	0.00	3.88	0.50	2.20	0.00	0.00	0.00	4.97
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	9.40	0.00	0.00	0.00	0.00	4.20	0.51	2.43	0.00	0.00	0.00	7.77
REPAIR & MAINTENANCE	3.29	0.00	0.00	0.00	0.00	1.78	0.16	1.31	0.00	0.00	0.00	7.75
INTEREST ON OP. CAP.	4.13	0.00	0.00	0.00	0.48	2.32	1.65	1.22	0.19	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	97.97	0.00	0.00	0.00	16.92	92.26	76.86	67.87	12.94	0.00	0.00	51.73
NET INCOME	-97.97	0.00	0.00	0.00	-16.92	-92.26	-76.86	-67.87	-12.94	0.00	0.00	420.77
NET INCOME TO DATE	-97.97	-97.97	-97.97	-97.97	-114.89	-207.15	-284.01	-351.88	-364.82	-364.82	-364.82	55.95

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
 * Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.62	2.80	2.97	3.15	3.32	3.50	3.67	3.85	4.02	4.20	4.37		
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-223 -267	-211 -255	-200 -243	-188 -231	-176 -220	-164 -208	-152 -196	-141 -184	-129 -172	-117 -160	-105 -149
60	81.00	bu	-191 -234	-177 -220	-163 -206	-148 -192	-134 -178	-120 -164	-106 -149	-92 -135	-78 -121	-63 -107	-49 -93
70	94.50	bu	-159 -202	-142 -186	-126 -169	-109 -153	-92 -136	-76 -119	-59 -103	-43 -86	-26 -70	-10 -53	6 -37
80	108.00	bu	-126 -170	-107 -151	-89 -132	-70 -113	-51 -94	-32 -75	-13 -56	5 -38	24 -19	43 -0	62 18
90	121.50	bu	-94 -138	-73 -116	-51 -95	-30 -74	-9 -52	11 -31	33 -10	54 10	75 32	96 53	118 74
100	135.00	bu	-62 -105	-38 -82	-14 -58	8 -34	32 -11	55 12	79 36	103 59	126 83	150 106	174 130
110	148.50	bu	-29 -73	-3 -47	22 -21	48 4	74 30	100 56	126 82	152 108	178 134	204 160	230 186
120	162.00	bu	2 -41	30 -12	59 15	87 44	115 72	144 100	172 129	200 157	229 185	257 214	285 242
130	175.50	bu	34 -8	65 21	96 52	126 83	157 114	188 144	219 175	249 206	280 236	311 267	341 298
140	189.00	bu	67 23	100 56	133 89	166 122	199 155	232 188	265 222	298 255	331 288	364 321	397 354
150	202.50	bu	99 55	134 91	170 126	205 162	241 197	276 233	312 268	347 303	382 339	418 374	453 410

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 2014 input prices.

Table 19.A Estimated costs per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	29.00	1.0870	31.52	_____
Potash (60% K2O)	cwt	23.60	0.8300	19.59	_____
UAN + Sulfur (28%)	cwt	17.90	2.1430	38.36	_____
UAN (32% N)	cwt	18.50	3.2815	60.71	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
Clarity	pt	11.88	0.5000	5.94	_____
Atrazine 4L	pt	1.93	4.0000	7.72	_____
Halex GT	pt	5.96	3.6000	21.46	_____
INSECTICIDES					
Intrepid 2F	oz	2.00	4.0000	8.00	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.08	28.0000	86.24	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Corn	bu	0.23	135.0000	31.05	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5400	6.78	_____
Harvesters	hour	12.55	0.1277	1.60	_____
Self-Propelled	hour	12.55	0.0176	0.22	_____
HAND LABOR					
Implements	hour	9.06	0.1854	1.67	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	12.56	0.6168	7.75	_____
DIESEL FUEL					
Tractors	gal	3.20	4.7257	15.12	_____
Harvesters	gal	3.20	1.7419	5.57	_____
Self-Propelled	gal	3.20	0.1586	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	8.46	1.0000	8.46	_____
Tractors	acre	2.64	1.0000	2.64	_____
Harvesters	acre	3.87	1.0000	3.87	_____
Self-Propelled	acre	0.16	1.0000	0.16	_____
INTEREST ON OP. CAP.	acre	10.08	1.0000	10.08	_____
TOTAL DIRECT EXPENSES				419.35	_____
FIXED EXPENSES					
Implements	acre	11.60	1.0000	11.60	_____
Tractors	acre	16.05	1.0000	16.05	_____
Harvesters	acre	14.82	1.0000	14.82	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
TOTAL FIXED EXPENSES				43.52	_____
TOTAL SPECIFIED EXPENSES				462.87	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 19.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.50	135.0000	472.50	_____

TOTAL INCOME				472.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	150.18	1.0000	150.18	_____
HERBICIDES	acre	39.62	1.0000	39.62	_____
INSECTICIDES	acre	8.00	1.0000	8.00	_____
SEED/PLANTS	acre	86.24	1.0000	86.24	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	31.05	1.0000	31.05	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1943	1.75	_____
OPERATOR LABOR	hour	12.55	0.6854	8.60	_____
UNALLOCATED LABOR	hour	12.56	0.6168	7.75	_____
DIESEL FUEL	gal	3.20	6.6263	21.20	_____
REPAIR & MAINTENANCE	acre	15.13	1.0000	15.13	_____
INTEREST ON OP. CAP.	acre	10.08	1.0000	10.08	_____

TOTAL DIRECT EXPENSES				419.35	_____
RETURNS ABOVE DIRECT EXPENSES				53.15	_____
TOTAL FIXED EXPENSES				43.52	_____

TOTAL SPECIFIED EXPENSES				462.87	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				9.63	_____

Note: Cost of production estimates are based on 2014 input prices

Fertilization decisions should be based on soil tests.

Table 19.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.5000				
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				
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Mar		0.09	0.09	0.18	0.08
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				
Fert Appl (Liquid)	8R-30	MFWD 170	0.098	1.00	May		0.09	0.09	0.14	0.08
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-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							0.68	0.66	0.87	0.61

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 19.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Spin Spreader	5 ton		1.18	0.47	1.39			0.13	3.17	1.75	4.92
DAP	cwt	31.52						1.39	32.91		32.91
Potash (60% K2O)	cwt	19.59						0.86	20.45		20.45
Disk Heavy	20'		2.72	1.49	2.32			0.29	6.82	4.97	11.79
Bed/Disk w/roller	8R-30/40		2.63	0.98	2.24			0.26	6.11	4.11	10.22
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
Clarity	pt	5.94						0.17	6.11		6.11
Plant - Rigid	8R-30		2.64	1.67	3.10			0.19	7.60	5.02	12.62
Corn Seed RR2	thous	86.24						2.21	88.45		88.45
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
UAN + Sulfur (28%)	cwt	38.36						0.84	39.20		39.20
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.50			0.03	1.20	1.05	2.25
Atrazine 4L	pt	7.72						0.17	7.89		7.89
Halex GT	pt	21.46						0.47	21.93		21.93
Fert Appl (Liquid)	8R-30		2.75	1.48	2.78			0.13	7.14	4.00	11.14
UAN (32% N)	cwt	60.71						1.11	61.82		61.82
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	8.00						0.12	8.12		8.12
Header - Corn	8R-30		5.57	5.66	3.04			0.05	14.32	17.43	31.75
Grain Cart Corn	500 bu		0.89	0.37	0.76			0.01	2.03	1.31	3.34
Haul Corn	bu	31.05						0.11	31.16		31.16
Stalk Shredder Flex	20'		2.31	2.85	1.97			0.03	7.16	3.88	11.04
TOTALS		354.84	21.20	15.13	18.10	0.00	10.08	419.35	43.52	462.87	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 19.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

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	472.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	51.11	0.00	0.00	0.00	0.00	0.00	38.36	60.71	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.44	0.00	29.18	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	8.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	86.24	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	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.05
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.95	0.00	0.00	0.00	0.00	3.10	0.50	2.78	0.00	0.00	0.00	5.77
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	6.53	0.00	0.00	0.00	0.00	2.64	0.51	2.75	0.00	0.00	0.00	8.77
REPAIR & MAINTENANCE	2.94	0.00	0.00	0.00	0.00	1.67	0.16	1.48	0.00	0.00	0.00	8.88
INTEREST ON OP. CAP.	3.92	0.00	0.00	0.00	0.48	2.40	1.65	1.24	0.19	0.00	0.00	0.20
TOTAL DIRECT EXPENSES	92.95	0.00	0.00	0.00	16.92	96.05	76.86	68.96	12.94	0.00	0.00	54.67
NET INCOME	-92.95	0.00	0.00	0.00	-16.92	-96.05	-76.86	-68.96	-12.94	0.00	0.00	417.83
NET INCOME TO DATE	-92.95	-92.95	-92.95	-92.95	-109.87	-205.92	-282.78	-351.74	-364.68	-364.68	-364.68	53.15

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, RR seed, 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-PRODUCT PRICE-										
Corn			2.62	2.80	2.97	3.15	3.32	3.50	3.67	3.85	4.02	4.20	4.37
PERCENT	YIELD	UNIT	-dollars-										
50	67.50	bu	-226 -270	-214 -258	-202 -246	-191 -234	-179 -222	-167 -211	-155 -199	-143 -187	-132 -175	-120 -163	-108 -151
60	81.00	bu	-194 -237	-180 -223	-165 -209	-151 -195	-137 -181	-123 -166	-109 -152	-95 -138	-80 -124	-66 -110	-52 -96
70	94.50	bu	-161 -205	-145 -188	-128 -172	-112 -155	-95 -139	-79 -122	-62 -106	-46 -89	-29 -73	-13 -56	3 -40
80	108.00	bu	-129 -173	-110 -154	-91 -135	-72 -116	-54 -97	-35 -78	-16 -59	2 -40	21 -21	40 -3	59 15
90	121.50	bu	-97 -140	-76 -119	-54 -98	-33 -77	-12 -55	9 -34	30 -13	51 8	72 29	94 50	115 71
100	135.00	bu	-64 -108	-41 -84	-17 -61	5 -37	29 -13	53 9	76 33	100 56	124 80	147 104	171 127
110	148.50	bu	-32 -76	-6 -50	19 -24	45 1	71 27	97 53	123 79	149 105	175 131	201 157	227 183
120	162.00	bu	-0 -43	28 -15	56 12	84 41	113 69	141 97	169 126	198 154	226 182	254 211	283 239
130	175.50	bu	31 -11	62 19	93 49	124 80	154 111	185 142	216 172	246 203	277 234	308 264	339 295
140	189.00	bu	64 20	97 53	130 86	163 120	196 153	229 186	262 219	295 252	328 285	361 318	395 351
150	202.50	bu	96 53	132 88	167 123	202 159	238 194	273 230	309 265	344 301	380 336	415 372	451 407

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 2014 input prices.

Table 20.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
Custom Spray Ground	acre	7.50	1.0000	7.50	_____
FERTILIZERS					
DAP	cwt	29.00	0.7600	22.04	_____
Potash (60% K2O)	cwt	23.60	0.5800	13.69	_____
UAN + Sulfur (28%)	cwt	17.90	4.2500	76.07	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	2.0000	4.50	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Lexar	pt	7.08	6.0000	42.48	_____
SEED/PLANTS					
Sorghum Concept	lb	2.28	6.0000	13.68	_____
ADJUVANTS					
Surfactant	pt	3.60	0.3000	1.08	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.3120	3.93	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
UNALLOCATED LABOR	hour	12.55	0.3727	4.68	_____
DIESEL FUEL					
Tractors	gal	3.20	2.7303	8.74	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	4.84	1.0000	4.84	_____
Tractors	acre	1.53	1.0000	1.53	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	5.77	1.0000	5.77	_____
TOTAL DIRECT EXPENSES				279.06	_____
FIXED EXPENSES					
Implements	acre	9.04	1.0000	9.04	_____
Tractors	acre	9.27	1.0000	9.27	_____
Harvesters	acre	11.86	1.0000	11.86	_____
TOTAL FIXED EXPENSES				30.17	_____
TOTAL SPECIFIED EXPENSES				309.23	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Direct Costs do not include allowance for white sugarcane aphid control which averages \$25.00 per acre.

Table 20.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	3.34	100.0000	334.00	_____

TOTAL INCOME				334.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.50	1.0000	13.50	_____
FERTILIZERS	acre	111.80	1.0000	111.80	_____
HERBICIDES	acre	51.86	1.0000	51.86	_____
SEED/PLANTS	acre	13.68	1.0000	13.68	_____
ADJUVANTS	acre	1.08	1.0000	1.08	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1442	1.31	_____
OPERATOR LABOR	hour	12.55	0.4142	5.21	_____
UNALLOCATED LABOR	hour	12.55	0.3727	4.68	_____
DIESEL FUEL	gal	3.20	4.1239	13.20	_____
REPAIR & MAINTENANCE	acre	9.47	1.0000	9.47	_____
INTEREST ON OP. CAP.	acre	5.77	1.0000	5.77	_____

TOTAL DIRECT EXPENSES				279.06	_____
RETURNS ABOVE DIRECT EXPENSES				54.94	_____
TOTAL FIXED EXPENSES				30.17	_____

TOTAL SPECIFIED EXPENSES				309.23	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				24.77	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Direct Costs do not include allowance for white sugarcane aphid control which averages \$25.00 per acre.

Table 20. Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
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					0.7600				
Potash (60% K2O)	cwt					0.5800				
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	lb					6.0000				
Custom Spray Ground	acre			1.00	Apr	1.0000				
Lexar	pt					6.0000				
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				
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							0.41	0.41	0.55	0.37

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Direct Costs do not include allowance for white sugarcane aphid control which averages \$25.00 per acre.

Table 20.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.99	23.49		23.49
Disk Harrow	24'		2.29	1.37	1.95			0.23	5.84	4.41	10.25
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Glyphosate 3lbs a.e	pt	4.50						0.13	4.63		4.63
2,4-D Amine 4	pt	4.88						0.14	5.02		5.02
Surfactant	pt	1.08						0.03	1.11		1.11
Spin Spreader	5 ton		1.18	0.47	1.39			0.07	3.11	1.75	4.86
DAP	cwt	22.04						0.48	22.52		22.52
Potash (60% K2O)	cwt	13.69						0.30	13.99		13.99
Field Cultivate Fld	32'		1.31	0.67	1.12			0.07	3.17	3.16	6.33
Plant - Folding	12R-30		1.76	1.76	2.07			0.12	5.71	4.54	10.25
Sorghum Concept	lb	13.68						0.30	13.98		13.98
Custom Spray Ground	acre	7.50						0.17	7.67		7.67
Lexar	pt	42.48						0.93	43.41		43.41
Fert Appl (Liquid)	12R-30		2.20	1.40	2.24			0.11	5.95	3.44	9.39
UAN + Sulfur (28%)	cwt	76.07						1.39	77.46		77.46
Header Wheat/Sorghum	25' Rigid		4.46	3.80	2.43			0.04	10.73	12.87	23.60
Haul Sorghum	bu	25.00						0.09	25.09		25.09
TOTALS		239.42	13.20	9.47	11.20	0.00	5.77	279.06	30.17	309.23	

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Direct Costs do not include allowance for white sugarcane aphid control which averages \$25.00 per acre.

Table 20.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

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	334.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	35.73	76.07	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.38	0.00	42.48	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	13.68	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.08	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	22.50	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	1.95	0.00	0.00	0.00	0.00	4.58	2.24	0.00	0.00	0.00	2.43
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	2.29	0.00	0.00	0.00	0.00	4.25	2.20	0.00	0.00	0.00	4.46
REPAIR & MAINTENANCE	0.00	1.37	0.00	0.00	0.00	0.00	2.90	1.40	0.00	0.00	0.00	3.80
INTEREST ON OP. CAP.	0.99	0.23	0.00	0.00	0.48	0.00	2.44	1.50	0.00	0.00	0.00	0.13
TOTAL DIRECT EXPENSES	23.49	5.84	0.00	0.00	16.94	0.00	113.56	83.41	0.00	0.00	0.00	35.82
NET INCOME	-23.49	-5.84	0.00	0.00	-16.94	0.00	-113.56	-83.41	0.00	0.00	0.00	298.18
NET INCOME TO DATE	-23.49	-29.33	-29.33	-29.33	-46.27	-46.27	-159.83	-243.24	-243.24	-243.24	-243.24	54.94

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Direct Costs do not include allowance for white sugarcane aphid control which averages \$25.00 per acre.

* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Grain Sorghum	2.50	2.67	2.83	3.00	3.17	3.34	3.50	3.67	3.84	4.00	4.17		
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	bu	-141	-132	-124	-116	-107	-99	-91	-82	-74	-66	-57
			-171	-163	-154	-146	-138	-129	-121	-112	-104	-96	-87
60	60.00	bu	-118	-108	-98	-88	-78	-68	-58	-48	-38	-28	-18
			-148	-138	-128	-118	-108	-98	-88	-78	-68	-58	-48
70	70.00	bu	-96	-84	-72	-61	-49	-37	-26	-14	-2	9	20
			-126	-114	-102	-91	-79	-67	-56	-44	-32	-21	-9
80	80.00	bu	-73	-60	-46	-33	-20	-6	6	19	33	46	59
			-103	-90	-77	-63	-50	-37	-23	-10	3	16	29
90	90.00	bu	-51	-36	-21	-6	9	24	39	54	69	84	99
			-81	-66	-51	-36	-21	-6	8	23	38	53	69
100	100.00	bu	-28	-11	4	21	38	54	71	88	105	121	138
			-58	-42	-25	-8	8	24	41	58	74	91	108
110	110.00	bu	-6	12	30	49	67	85	104	122	140	159	177
			-36	-17	0	18	37	55	74	92	110	129	147
120	120.00	bu	16	36	56	76	96	116	136	156	176	196	216
			-13	6	26	46	66	86	106	126	146	166	186
130	130.00	bu	39	60	82	104	125	147	169	191	212	234	256
			8	30	52	74	95	117	139	160	182	204	225
140	140.00	bu	61	84	108	131	155	178	201	225	248	272	295
			31	54	78	101	124	148	171	195	218	241	265
150	150.00	bu	84	109	134	159	184	209	234	259	284	309	334
			53	79	104	129	154	179	204	229	254	279	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 2014 input prices.

Table 21.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
FERTILIZERS					
DAP	cwt	29.00	1.0000	29.00	_____
Potash (60% K2O)	cwt	23.60	0.7500	17.70	_____
Fert 41-0-0-4	cwt	23.50	2.8000	65.80	_____
FUNGICIDES					
Quilt	pt	22.34	0.8750	19.55	_____
HERBICIDES					
Axiom 68DF	oz	1.86	10.0000	18.60	_____
Axial XL	oz	1.05	16.4000	17.22	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.32	90.0000	28.80	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	2.8000	18.20	_____
HAULING					
Haul Wheat	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.2648	3.33	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	12.56	0.2936	3.69	_____
DIESEL FUEL					
Tractors	gal	3.20	2.3178	7.42	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	3.70	1.0000	3.70	_____
Tractors	acre	1.30	1.0000	1.30	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	7.17	1.0000	7.17	_____
TOTAL DIRECT EXPENSES				310.25	_____
FIXED EXPENSES					
Implements	acre	7.71	1.0000	7.71	_____
Tractors	acre	7.87	1.0000	7.87	_____
Harvesters	acre	11.86	1.0000	11.86	_____
TOTAL FIXED EXPENSES				27.44	_____
TOTAL SPECIFIED EXPENSES				337.69	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 21.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	4.98	70.0000	348.60	_____

TOTAL INCOME				348.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	112.50	1.0000	112.50	_____
FUNGICIDES	acre	19.55	1.0000	19.55	_____
HERBICIDES	acre	35.82	1.0000	35.82	_____
SEED/PLANTS	acre	28.80	1.0000	28.80	_____
CUSTOM FERTILIZE	acre	18.20	1.0000	18.20	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	12.55	0.3670	4.61	_____
UNALLOCATED LABOR	hour	12.56	0.2936	3.69	_____
DIESEL FUEL	gal	3.20	3.7114	11.88	_____
REPAIR & MAINTENANCE	acre	8.10	1.0000	8.10	_____
INTEREST ON OP. CAP.	acre	7.17	1.0000	7.17	_____

TOTAL DIRECT EXPENSES				310.25	_____
RETURNS ABOVE DIRECT EXPENSES				38.35	_____
TOTAL FIXED EXPENSES				27.44	_____

TOTAL SPECIFIED EXPENSES				337.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				10.91	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 21.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Sep	0.5000				
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				
App by Air (5 gal)	appl			1.00	Nov	1.0000				
Axiom 68DF	oz					10.0000				
App by Air (5 gal)	appl			1.00	Jan	1.0000				
Axial XL	oz					16.4000				
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				
Quilt	pt					0.8750				
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 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 21.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.83	23.33		23.33
Disk Harrow	24'		2.29	1.37	1.85			0.20	5.71	4.41	10.12
Spin Spreader	5 ton		1.18	0.47	1.33			0.11	3.09	1.75	4.84
DAP	cwt	29.00						1.06	30.06		30.06
Potash (60% K2O)	cwt	17.70						0.65	18.35		18.35
Field Cultivate Fld	32'		1.31	0.67	1.06			0.11	3.15	3.16	6.31
Grain Drill	20'		2.64	1.79	2.98			0.24	7.65	5.25	12.90
Wheat Seed Private	lb	28.80						0.95	29.75		29.75
App by Air (5 gal)	appl	6.00						0.18	6.18		6.18
Axiom 68DF	oz	18.60						0.55	19.15		19.15
App by Air (5 gal)	appl	6.00						0.13	6.13		6.13
Axial XL	oz	17.22						0.38	17.60		17.60
App Fert by Air	cwt	9.10						0.17	9.27		9.27
Fert 41-0-0-4	cwt	32.90						0.60	33.50		33.50
App Fert by Air	cwt	9.10						0.13	9.23		9.23
Fert 41-0-0-4	cwt	32.90						0.48	33.38		33.38
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Quilt	pt	19.55						0.22	19.77		19.77
Header Wheat/Sorghum	25' Rigid		4.46	3.80	2.31			0.04	10.61	12.87	23.48
Haul Wheat	bu	18.20						0.07	18.27		18.27
TOTALS		273.57	11.88	8.10	9.53	0.00	7.17	310.25	27.44	337.69	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 21.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2015

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	348.60
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	6.00	0.00	0.00	6.00	0.00	0.00
FERTILIZERS	0.00	0.00	46.70	0.00	0.00	0.00	0.00	32.90	32.90	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.55	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	18.60	0.00	17.22	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	28.80	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	9.10	9.10	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	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	4.24	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31
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	0.00	0.00	4.78	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.46
REPAIR & MAINTENANCE	0.00	0.00	2.51	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80
INTEREST ON OP. CAP.	0.00	0.00	2.96	1.19	0.73	0.00	0.51	0.77	0.61	0.29	0.00	0.11
TOTAL DIRECT EXPENSES	0.00	0.00	83.69	37.40	25.33	0.00	23.73	42.77	42.61	25.84	0.00	28.88
NET INCOME	0.00	0.00	-83.69	-37.40	-25.33	0.00	-23.73	-42.77	-42.61	-25.84	0.00	319.72
NET INCOME TO DATE	0.00	0.00	-83.69	-121.09	-146.42	-146.42	-170.15	-212.92	-255.53	-281.37	-281.37	38.35

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
 * Lease costs are based on hourly usage costs.

Table 21.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Wheat			3.73	3.98	4.23	4.48	4.73	4.98	5.22	5.47	5.72	5.97	6.22
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-170 -197	-161 -189	-152 -180	-144 -171	-135 -162	-126 -154	-118 -145	-109 -136	-100 -128	-91 -119	-83 -110
60	42.00	bu	-146 -173	-135 -163	-125 -152	-114 -142	-104 -131	-93 -121	-83 -110	-72 -100	-62 -89	-51 -79	-41 -68
70	49.00	bu	-121 -149	-109 -136	-97 -124	-85 -112	-72 -100	-60 -88	-48 -75	-36 -63	-24 -51	-11 -39	0 -27
80	56.00	bu	-97 -124	-83 -110	-69 -96	-55 -83	-41 -69	-27 -55	-13 -41	0 -27	14 -13	28 0	42 14
90	63.00	bu	-73 -100	-57 -84	-41 -69	-26 -53	-10 -37	5 -22	21 -6	36 9	52 24	68 40	83 56
100	70.00	bu	-48 -76	-31 -58	-13 -41	3 -23	20 -6	38 10	55 28	73 45	90 63	108 80	125 98
110	77.00	bu	-24 -51	-5 -32	13 -13	33 5	52 24	71 43	90 63	109 82	128 101	148 120	167 139
120	84.00	bu	-0 -27	20 -6	41 14	62 35	83 56	104 76	125 97	146 118	167 139	188 160	208 181
130	91.00	bu	24 -3	46 19	69 42	92 64	114 87	137 110	160 132	182 155	205 177	228 200	250 223
140	98.00	bu	48 21	72 45	97 69	121 94	146 118	170 143	194 167	219 191	243 216	268 240	292 265
150	105.00	bu	72 45	98 71	125 97	151 123	177 149	203 176	229 202	255 228	281 254	308 280	334 306

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 2014 input prices.

Table 22.A Estimated costs per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	148.0000	51.80	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5757	7.23	_____
Harvesters	hour	12.55	0.2030	2.55	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR					
	hour	12.53	0.5887	7.38	_____
DIESEL FUEL					
Tractors	gal	3.20	5.4144	17.32	_____
Harvesters	gal	3.20	3.3975	10.87	_____
Flood Irr.	gal	3.20	26.8827	86.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	6.88	1.0000	6.88	_____
Flood Irr.	acre	12.43	1.0000	12.43	_____
INTEREST ON OP. CAP.	acre	10.33	1.0000	10.33	_____
TOTAL DIRECT EXPENSES				680.55	_____
FIXED EXPENSES					
Implements	acre	15.91	1.0000	15.91	_____
Tractors	acre	17.51	1.0000	17.51	_____
Harvesters	acre	26.32	1.0000	26.32	_____
Flood Irr.	acre	37.33	1.0000	37.33	_____
TOTAL FIXED EXPENSES				97.07	_____
TOTAL SPECIFIED EXPENSES				777.62	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 22.B Summary of estimated costs and returns per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	148.0000	825.84	_____

TOTAL INCOME				825.84	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	51.80	1.0000	51.80	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	12.55	0.7788	9.78	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	12.53	0.5887	7.38	_____
DIESEL FUEL	gal	3.20	35.6946	114.21	_____
REPAIR & MAINTENANCE	acre	29.92	1.0000	29.92	_____
INTEREST ON OP. CAP.	acre	10.33	1.0000	10.33	_____

TOTAL DIRECT EXPENSES				680.55	_____
RETURNS ABOVE DIRECT EXPENSES				145.29	_____
TOTAL FIXED EXPENSES				97.07	_____

TOTAL SPECIFIED EXPENSES				777.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				48.22	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 22.C Estimated resource use for field operations, per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
Surfactant	pt					0.0750				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.77	0.77	6.14	0.58

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 22.D Estimated costs for field operations, per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				2.72		0.05	2.77		2.77
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				4.53		0.07	4.60		4.60
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				4.53		0.05	4.58		4.58
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		10.87	9.32	4.84		0.18	25.21	30.00	55.21
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	51.80					0.38	52.18		52.18
Dry Rice	bu	59.20					0.43	59.63		59.63
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	4.50	89.23	13.12	33.53		2.30	142.68	41.26	183.94
TOTALS		460.27	114.21	29.92	65.82	0.00	10.33	680.55	97.07	777.62

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 22.E Estimated monthly income and expense flows per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

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	825.84	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	35.57	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.80	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	16.21	9.52	11.33	11.33	10.67	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	22.62	23.46	23.46	23.46	12.34	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.64	6.94	2.06	2.06	9.73	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.70	3.84	1.58	0.72	1.05	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	126.09	212.95	109.91	66.25	144.79	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-126.09	-212.95	-109.91	-66.25	681.05	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-135.57	-348.52	-458.43	-524.68	156.37	145.29

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 22.F Estimated returns for various price/yield combinations, per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-314 -412	-294 -391	-273 -370	-253 -350	-232 -329	-211 -308	-191 -288	-170 -267	-149 -246	-129 -226	-108 -205
60	88.80	bu	-264 -361	-239 -336	-214 -311	-189 -286	-165 -262	-140 -237	-115 -212	-90 -187	-65 -163	-41 -138	-16 -113
70	103.60	bu	-213 -310	-184 -281	-155 -252	-126 -223	-97 -194	-68 -165	-40 -137	-11 -108	17 -79	46 -50	75 -21
80	118.40	bu	-162 -259	-129 -226	-96 -193	-63 -160	-30 -127	2 -94	35 -61	68 -28	101 4	134 37	167 70
90	133.20	bu	-111 -208	-74 -171	-37 -134	-0 -97	36 -60	73 -23	111 13	148 51	185 88	222 125	259 162
100	148.00	bu	-61 -158	-19 -116	21 -75	62 -34	103 6	145 48	186 89	227 130	269 172	310 213	351 254
110	162.80	bu	-10 -107	35 -62	80 -16	125 28	171 74	216 119	262 165	307 210	352 255	398 301	443 346
120	177.60	bu	40 -56	89 -7	139 42	188 91	238 141	288 191	337 240	387 290	436 339	486 389	535 438
130	192.40	bu	91 -5	144 47	198 101	252 155	305 208	359 262	413 316	466 369	520 423	574 477	627 530
140	207.20	bu	141 44	199 102	257 160	315 218	373 276	430 333	488 391	546 449	604 507	662 565	719 622
150	222.00	bu	192 95	254 157	316 219	378 281	440 343	502 405	564 467	626 529	688 591	750 652	811 714

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 2014 input prices.

Table 23.A Estimated costs per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	9.78	1.0000	9.78	_____
TOTAL DIRECT EXPENSES				644.50	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				757.72	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 23.B Summary of estimated costs and returns per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	9.78	1.0000	9.78	_____

TOTAL DIRECT EXPENSES				644.50	_____
RETURNS ABOVE DIRECT EXPENSES				225.98	_____
TOTAL FIXED EXPENSES				113.22	_____

TOTAL SPECIFIED EXPENSES				757.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				112.76	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 23.C Estimated resource use for field operations, per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
Surfactant	pt					0.0750				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 23.D Estimated costs for field operations, per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48		1.82	111.28	61.41	172.69
TOTALS		464.02	95.87	27.95	46.88	0.00	9.78	644.50	113.22	757.72

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 23.E Estimated monthly income and expense flows per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	35.57	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.55	3.67	1.43	0.61	1.08	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	119.01	203.27	99.34	55.72	146.60	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-119.01	-203.27	-99.34	-55.72	723.88	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-128.49	-331.76	-431.10	-486.82	237.06	225.98

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 23.F Estimated returns for various price/yield combinations, per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-259 -372	-237 -350	-215 -328	-193 -307	-172 -285	-150 -263	-128 -241	-106 -220	-85 -198	-63 -176	-41 -154
60	93.60	bu	-205 -318	-179 -292	-153 -266	-127 -240	-101 -214	-75 -188	-48 -162	-22 -136	3 -109	29 -83	55 -57
70	109.20	bu	-152 -265	-121 -234	-91 -204	-60 -173	-30 -143	0 -113	30 -82	61 -52	91 -21	122 8	152 39
80	124.80	bu	-98 -211	-63 -177	-29 -142	5 -107	40 -72	75 -37	110 -2	145 31	179 66	214 101	249 136
90	140.40	bu	-45 -158	-5 -119	33 -80	72 -40	111 -1	150 37	189 76	229 115	268 155	307 194	346 233
100	156.00	bu	8 -104	51 -61	95 -17	138 25	182 69	225 112	269 156	313 199	356 243	400 286	443 330
110	171.60	bu	61 -51	109 -3	157 44	205 92	253 140	301 188	349 235	396 283	444 331	492 379	540 427
120	187.20	bu	115 2	167 54	219 106	272 158	324 211	376 263	428 315	480 367	533 419	585 472	637 524
130	202.80	bu	168 55	225 112	282 168	338 225	395 281	451 338	508 395	564 451	621 508	678 564	734 621
140	218.40	bu	222 109	283 170	344 231	405 291	466 352	527 413	587 474	648 535	709 596	770 657	831 718
150	234.00	bu	275 162	341 227	406 293	471 358	537 423	602 489	667 554	732 619	798 684	863 750	928 815

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 24.A Estimated costs per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5563	6.98	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.2074	16.66	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	18.7364	59.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	12.12	1.0000	12.12	_____
INTEREST ON OP. CAP.	acre	9.64	1.0000	9.64	_____
TOTAL DIRECT EXPENSES				632.75	_____
FIXED EXPENSES					
Implements	acre	15.47	1.0000	15.47	_____
Tractors	acre	16.73	1.0000	16.73	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.79	1.0000	59.79	_____
TOTAL FIXED EXPENSES				114.80	_____
TOTAL SPECIFIED EXPENSES				747.55	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 24.B Summary of estimated costs and returns per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	12.55	0.7323	9.19	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	26.8883	86.03	_____
REPAIR & MAINTENANCE	acre	28.24	1.0000	28.24	_____
INTEREST ON OP. CAP.	acre	9.64	1.0000	9.64	_____

TOTAL DIRECT EXPENSES				632.75	_____
RETURNS ABOVE DIRECT EXPENSES				237.73	_____
TOTAL FIXED EXPENSES				114.80	_____

TOTAL SPECIFIED EXPENSES				747.55	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				122.93	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 24.C Estimated resource use for field operations, per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
Surfactant	pt					0.0750				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 24.D Estimated costs for field operations, per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	10.83	62.50	12.68	11.84		1.68	99.53	62.99	162.52
TOTALS		472.60	86.03	28.24	36.24	0.00	9.64	632.75	114.80	747.55

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 24.E Estimated monthly income and expense flows per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	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	35.57	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	10.03	2.72	3.62	3.62	9.49	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	19.73	15.64	15.64	15.64	10.51	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.79	6.77	1.89	1.89	8.41	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.65	3.57	1.36	0.55	1.07	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	123.45	197.89	93.99	50.38	146.48	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-123.45	-197.89	-93.99	-50.38	724.00	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-132.93	-330.82	-424.81	-475.19	248.81	237.73

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 24.F Estimated returns for various price/yield combinations, per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT YIELD UNIT			dollars										
50	78.00	bu	-247 -362	-225 -340	-203 -318	-182 -296	-160 -275	-138 -253	-116 -231	-95 -209	-73 -188	-51 -166	-29 -144
60	93.60	bu	-193 -308	-167 -282	-141 -256	-115 -230	-89 -204	-63 -178	-37 -152	-11 -125	15 -99	41 -73	67 -47
70	109.20	bu	-140 -255	-109 -224	-79 -194	-48 -163	-18 -133	11 -102	42 -72	72 -41	103 -11	133 19	164 49
80	124.80	bu	-86 -201	-52 -166	-17 -132	17 -97	52 -62	87 -27	122 7	156 42	191 76	226 111	261 146
90	140.40	bu	-33 -148	5 -109	44 -69	84 -30	123 8	162 47	201 86	240 126	279 165	319 204	358 243
100	156.00	bu	20 -94	63 -51	107 -7	150 35	194 79	237 122	281 166	324 209	368 253	411 297	455 340
110	171.60	bu	73 -41	121 6	169 54	217 102	265 150	312 198	360 246	408 293	456 341	504 389	552 437
120	187.20	bu	127 12	179 64	231 116	283 168	336 221	388 273	440 325	492 377	544 430	597 482	649 534
130	202.80	bu	180 65	237 122	293 178	350 235	406 292	463 348	520 405	576 461	633 518	689 575	746 631
140	218.40	bu	234 119	295 180	355 241	416 302	477 363	538 423	599 484	660 545	721 606	782 667	843 728
150	234.00	bu	287 172	352 238	418 303	483 368	548 433	614 499	679 564	744 629	809 695	875 760	940 825

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 25.A Estimated costs per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	80.0000	12.00	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	164.0000	57.40	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4510	5.66	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	4.4111	14.11	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	15.4779	49.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	2.36	1.0000	2.36	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	9.86	1.0000	9.86	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____
TOTAL DIRECT EXPENSES				601.93	_____
FIXED EXPENSES					
Implements	acre	14.65	1.0000	14.65	_____
Tractors	acre	14.35	1.0000	14.35	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				110.37	_____
TOTAL SPECIFIED EXPENSES				712.30	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 25.B Summary of estimated costs and returns per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	164.0000	915.12	_____

TOTAL INCOME				915.12	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	14.85	1.0000	14.85	_____
SEED/PLANTS	acre	30.40	1.0000	30.40	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	57.40	1.0000	57.40	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	12.55	0.6270	7.87	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	22.8336	73.05	_____
REPAIR & MAINTENANCE	acre	25.42	1.0000	25.42	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____

TOTAL DIRECT EXPENSES				601.93	_____
RETURNS ABOVE DIRECT EXPENSES				313.19	_____
TOTAL FIXED EXPENSES				110.37	_____

TOTAL SPECIFIED EXPENSES				712.30	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				202.82	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 25.C Estimated resource use for field operations, per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					80.0000				
Cruiser Maxx Rice	lbseed					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
Surfactant	pt					0.0750				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 25.D Estimated costs for field operations, per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31	
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27	
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87	
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07	
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26	
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14	
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05	
Command 3ME	pt	19.06					0.42	19.48		19.48	
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90	
App Fert by Air	cwt	4.88					0.09	4.97		4.97	
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11	
DAP	cwt	10.88					0.20	11.08		11.08	
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11	
Riceshot	pt	30.48					0.56	31.04		31.04	
Facet L	pt	20.72					0.38	21.10		21.10	
Permit 75 DF	oz	9.87					0.18	10.05		10.05	
App Fert by Air	cwt	16.25					0.30	16.55		16.55	
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29	
Rice Management											
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93	
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04	
Clincher SF	oz	17.25					0.25	17.50		17.50	
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65	
Rice Management											
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84	
App Fert by Air	cwt	9.75					0.14	9.89		9.89	
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44	
Rice Management											
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83	
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55	
Stratego	pt	18.68					0.21	18.89		18.89	
Surfactant	pt	0.27						0.27		0.27	
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41	
Karate Z	oz	2.85					0.03	2.88		2.88	
Rice Management											
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82	
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86	
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29	
Handling & Storage											
HAND LABOR	hour				2.27		0.02	2.29		2.29	
Haul Rice	bu	57.40					0.42	57.82		57.82	
Dry Rice	bu	65.60					0.48	66.08		66.08	
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78	
Flood Irr.	acre		49.52	9.86	9.53		1.12	70.03	58.56	128.59	
TOTALS			460.56	73.05	25.42	33.93	0.00	8.97	601.93	110.37	712.30

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 25.E Estimated monthly income and expense flows per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

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	915.12	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.40	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.40	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	7.29	3.18	4.08	4.08	8.54	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	15.33	13.03	13.03	13.03	9.76	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	3.88	6.19	1.31	1.31	8.24	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.08	3.52	1.31	0.52	1.10	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	96.79	195.11	91.21	47.62	150.64	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-96.79	-195.11	-91.21	-47.62	764.48	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-106.27	-301.38	-392.59	-440.21	324.27	313.19

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 25.F Estimated returns for various price/yield combinations, per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	82.00	bu	-196 -307	-173 -284	-151 -261	-128 -238	-105 -215	-82 -192	-59 -169	-36 -147	-13 -124	9 -101	31 -78
60	98.40	bu	-140 -250	-113 -223	-85 -196	-58 -168	-30 -141	-3 -113	24 -86	51 -58	79 -31	106 -3	133 23
70	114.80	bu	-84 -194	-52 -162	-20 -130	11 -98	43 -66	75 -34	107 -2	139 29	171 61	203 93	235 125
80	131.20	bu	-28 -138	8 -101	45 -65	81 -28	118 7	154 44	191 81	228 117	264 154	301 190	337 227
90	147.60	bu	28 -82	69 -41	110 0	151 41	192 82	234 123	275 164	316 206	357 247	398 288	439 329
100	164.00	bu	84 -25	130 19	175 65	221 111	267 157	313 202	358 248	404 294	450 340	496 385	541 431
110	180.40	bu	140 30	190 80	241 130	291 181	341 231	392 281	442 332	492 382	543 432	593 483	643 533
120	196.80	bu	196 86	251 141	306 196	361 251	416 306	471 361	526 415	581 470	636 525	691 580	745 635
130	213.20	bu	253 142	312 202	372 261	431 321	491 380	550 440	610 499	669 559	729 618	788 678	847 737
140	229.60	bu	309 199	373 263	437 327	501 391	565 455	629 519	693 583	757 647	821 711	885 775	949 839
150	246.00	bu	365 255	434 323	502 392	571 461	640 529	708 598	777 667	846 735	914 804	983 872	1051 941

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 2014 input prices.

Table 26.A Estimated costs per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	148.0000	51.80	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5757	7.23	_____
Harvesters	hour	12.55	0.2030	2.55	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.53	0.5887	7.38	_____
DIESEL FUEL					
Tractors	gal	3.20	5.4144	17.32	_____
Harvesters	gal	3.20	3.3975	10.87	_____
Flood Irr.	gal	3.20	26.8827	86.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	6.88	1.0000	6.88	_____
Flood Irr.	acre	12.43	1.0000	12.43	_____
INTEREST ON OP. CAP.	acre	11.35	1.0000	11.35	_____
TOTAL DIRECT EXPENSES				719.45	_____
FIXED EXPENSES					
Implements	acre	15.91	1.0000	15.91	_____
Tractors	acre	17.51	1.0000	17.51	_____
Harvesters	acre	26.32	1.0000	26.32	_____
Flood Irr.	acre	37.33	1.0000	37.33	_____
TOTAL FIXED EXPENSES				97.07	_____
TOTAL SPECIFIED EXPENSES				816.52	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 26.B Summary of estimated costs and returns per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	148.0000	825.84	_____

TOTAL INCOME				825.84	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	51.80	1.0000	51.80	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	12.55	0.7788	9.78	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.53	0.5887	7.38	_____
DIESEL FUEL	gal	3.20	35.6946	114.21	_____
REPAIR & MAINTENANCE	acre	29.92	1.0000	29.92	_____
INTEREST ON OP. CAP.	acre	11.35	1.0000	11.35	_____

TOTAL DIRECT EXPENSES				719.45	_____
RETURNS ABOVE DIRECT EXPENSES				106.39	_____
TOTAL FIXED EXPENSES				97.07	_____

TOTAL SPECIFIED EXPENSES				816.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				9.32	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 26.C Estimated resource use for field operations, per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Crop Oil Conc.(Pet.)	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.77	0.77	5.34	0.58

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 26.D Estimated costs for field operations, per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Field Cultivate Fld	32'		2.92	1.36	2.22			0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93			0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59			0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00						1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50						0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18			0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Command 3ME	pt	19.06						0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75						0.15	6.90		6.90
Seed Levees											
Rice Seed CF(Levees)	lb	10.80						0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80						0.04	1.84		1.84
App by Air (10 gal)	appl	8.00						0.18	8.18		8.18
Newpath 2SL	oz	20.82						0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20						0.16	7.36		7.36
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98						0.13	7.11		7.11
DAP	cwt	10.88						0.20	11.08		11.08
App Fert by Air	cwt	16.25						0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13						1.16	64.29		64.29
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Clearpath	lb	27.53						0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20						0.13	7.33		7.33
Aim 2EC	oz	6.33						0.12	6.45		6.45
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	1.50						0.02	1.52		1.52
Beyond	oz	5.36						0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80						0.03	1.83		1.83
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	9.75						0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88						0.56	38.44		38.44
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Stratego	pt	24.91						0.27	25.18		25.18
Surfactant	pt	0.36							0.36		0.36
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	2.85						0.03	2.88		2.88
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		10.87	9.32	4.84			0.18	25.21	30.00	55.21
Grain Cart Rice	700 bu		0.34	0.16	0.26			0.01	0.77	0.52	1.29
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	51.80						0.38	52.18		52.18
Dry Rice	bu	59.20						0.43	59.63		59.63
Disk Heavy	28'		4.74	2.69	3.61			0.04	11.08	8.70	19.78
Flood Irr.	acre	4.50	89.23	13.12	33.53			2.30	142.68	41.26	183.94
TOTALS		505.40	114.21	29.92	58.57	0.00	11.35	719.45	97.07	816.52	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 26.E Estimated monthly income and expense flows per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

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	825.84	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.80	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	16.21	7.71	8.61	8.61	10.67	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	22.62	23.46	23.46	23.46	12.34	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.64	6.94	2.06	2.06	9.73	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.32	3.44	1.33	0.77	1.05	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	200.22	190.73	91.75	71.40	144.79	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-200.22	-190.73	-91.75	-71.40	681.05	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-209.70	-400.43	-492.18	-563.58	117.47	106.39

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 26.F Estimated returns for various price/yield combinations, per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-353 -450	-333 -430	-312 -409	-291 -388	-271 -368	-250 -347	-229 -327	-209 -306	-188 -285	-168 -265	-147 -244
60	88.80	bu	-303 -400	-278 -375	-253 -350	-228 -325	-203 -301	-179 -276	-154 -251	-129 -226	-104 -201	-80 -177	-55 -152
70	103.60	bu	-252 -349	-223 -320	-194 -291	-165 -262	-136 -233	-107 -204	-78 -175	-50 -147	-21 -118	7 -89	36 -60
80	118.40	bu	-201 -298	-168 -265	-135 -232	-102 -199	-69 -166	-36 -133	-3 -100	29 -67	62 -34	95 -1	128 31
90	133.20	bu	-150 -247	-113 -210	-76 -173	-39 -136	-2 -99	34 -62	72 -24	109 12	146 49	183 86	220 123
100	148.00	bu	-100 -197	-58 -155	-17 -114	23 -73	65 -31	106 9	147 50	188 91	230 133	271 174	312 215
110	162.80	bu	-49 -146	-3 -100	41 -55	86 -10	132 35	177 80	223 126	268 171	314 216	359 262	404 307
120	177.60	bu	1 -95	50 -46	100 3	150 53	199 102	249 152	298 201	348 251	397 300	447 350	496 399
130	192.40	bu	52 -44	105 8	159 62	213 116	266 169	320 223	374 277	427 330	481 384	535 438	588 491
140	207.20	bu	102 5	160 63	218 121	276 179	334 237	392 294	449 352	507 410	565 468	623 526	681 583
150	222.00	bu	153 56	215 118	277 180	339 242	401 304	463 366	525 428	587 490	649 552	711 614	773 676

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 2014 input prices.

Table 27.A Estimated costs per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	10.90	1.0000	10.90	_____
TOTAL DIRECT EXPENSES				690.75	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				803.97	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 27.B Summary of estimated costs and returns per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	10.90	1.0000	10.90	_____

TOTAL DIRECT EXPENSES				690.75	_____
RETURNS ABOVE DIRECT EXPENSES				179.73	_____
TOTAL FIXED EXPENSES				113.22	_____

TOTAL SPECIFIED EXPENSES				803.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				66.51	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 27.C Estimated resource use for field operations, per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Crop Oil Conc.(Pet.)	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 27.D Estimated costs for field operations, per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00					1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50					0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CF(Levees)	lb	10.80					0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80					0.04	1.84		1.84
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Stratego	pt	24.91					0.27	25.18		25.18
Surfactant	pt	0.36						0.36		0.36
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48		1.82	111.28	61.41	172.69
TOTALS		509.15	95.87	27.95	46.88	0.00	10.90	690.75	113.22	803.97

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 27.E Estimated monthly income and expense flows per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.17	3.30	1.22	0.69	1.08	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	193.14	182.89	83.94	63.62	146.60	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-193.14	-182.89	-83.94	-63.62	723.88	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-202.62	-385.51	-469.45	-533.07	190.81	179.73

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 27.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT YIELD UNIT			dollars										
50	78.00	bu	-305 -418	-283 -396	-261 -375	-240 -353	-218 -331	-196 -309	-174 -288	-153 -266	-131 -244	-109 -222	-87 -200
60	93.60	bu	-251 -365	-225 -338	-199 -312	-173 -286	-147 -260	-121 -234	-95 -208	-69 -182	-42 -156	-16 -130	9 -103
70	109.20	bu	-198 -311	-167 -281	-137 -250	-106 -220	-76 -189	-46 -159	-15 -128	14 -98	45 -67	75 -37	106 -6
80	124.80	bu	-144 -258	-110 -223	-75 -188	-40 -153	-5 -118	29 -84	64 -49	98 -14	133 20	168 55	203 90
90	140.40	bu	-91 -204	-52 -165	-13 -126	26 -87	65 -47	104 -8	143 30	182 69	221 108	261 147	300 187
100	156.00	bu	-37 -151	5 -107	49 -64	92 -20	136 22	179 66	223 110	266 153	310 197	353 240	397 284
110	171.60	bu	15 -97	63 -49	111 -1	159 46	207 93	254 141	302 189	350 237	398 285	446 333	494 381
120	187.20	bu	69 -44	121 8	173 60	225 112	278 164	330 217	382 269	434 321	486 373	539 425	591 478
130	202.80	bu	122 9	179 65	235 122	292 179	348 235	405 292	462 348	518 405	575 462	631 518	688 575
140	218.40	bu	176 62	237 123	297 184	358 245	419 306	480 367	541 428	602 489	663 550	724 611	785 672
150	234.00	bu	229 116	294 181	360 246	425 312	490 377	556 442	621 508	686 573	751 638	817 703	882 769

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 2014 input prices.

Table 28.A Estimated costs per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	3.0000	8.55	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF (Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5563	6.98	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.2074	16.66	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	18.7364	59.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	12.12	1.0000	12.12	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____
TOTAL DIRECT EXPENSES				684.80	_____
FIXED EXPENSES					
Implements	acre	15.47	1.0000	15.47	_____
Tractors	acre	16.73	1.0000	16.73	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.79	1.0000	59.79	_____
TOTAL FIXED EXPENSES				114.80	_____
TOTAL SPECIFIED EXPENSES				799.60	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 28.B Summary of estimated costs and returns per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	20.85	1.0000	20.85	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	12.55	0.7323	9.19	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	26.8883	86.03	_____
REPAIR & MAINTENANCE	acre	28.24	1.0000	28.24	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____

TOTAL DIRECT EXPENSES				684.80	_____
RETURNS ABOVE DIRECT EXPENSES				185.68	_____
TOTAL FIXED EXPENSES				114.80	_____

TOTAL SPECIFIED EXPENSES				799.60	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				70.88	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 28.C Estimated resource use for field operations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Crop Oil Conc.(Pet.)	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 28.D Estimated costs for field operations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00					1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50					0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CF(Levees)	lb	10.80					0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80					0.04	1.84		1.84
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Karate Z	oz	5.70					0.10	5.80		5.80
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Stratego	pt	24.91					0.27	25.18		25.18
Surfactant	pt	0.36						0.36		0.36
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	10.83	62.50	12.68	11.84		1.68	99.53	62.99	162.52
TOTALS		523.43	86.03	28.24	36.24	0.00	10.86	684.80	114.80	799.60

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 28.E Estimated monthly income and expense flows per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	5.70	0.00	2.85	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	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.60	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	10.03	2.72	3.62	3.62	9.49	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	19.73	15.64	15.64	15.64	10.51	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.79	6.77	1.89	1.89	8.41	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.27	3.30	1.15	0.63	1.07	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	197.58	183.31	78.59	58.28	146.48	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-197.58	-183.31	-78.59	-58.28	724.00	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-207.06	-390.37	-468.96	-527.24	196.76	185.68

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs

Table 28.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-299 -414	-277 -392	-255 -370	-234 -348	-212 -327	-190 -305	-168 -283	-147 -261	-125 -240	-103 -218	-81 -196
60	93.60	bu	-245 -360	-219 -334	-193 -308	-167 -282	-141 -256	-115 -230	-89 -204	-63 -177	-37 -151	-10 -125	15 -99
70	109.20	bu	-192 -307	-161 -276	-131 -246	-101 -215	-70 -185	-40 -154	-9 -124	20 -93	51 -63	81 -33	112 -2
80	124.80	bu	-138 -253	-104 -218	-69 -184	-34 -149	0 -114	35 -79	69 -44	104 -10	139 24	174 59	209 94
90	140.40	bu	-85 -200	-46 -161	-7 -121	32 -82	71 -43	110 -4	149 34	188 73	227 113	267 152	306 191
100	156.00	bu	-31 -146	11 -103	55 -59	98 -16	142 27	185 70	229 114	272 157	316 201	359 244	403 288
110	171.60	bu	21 -93	69 -45	117 2	165 50	213 98	260 146	308 194	356 241	404 289	452 337	500 385
120	187.20	bu	75 -39	127 12	179 64	231 116	283 169	336 221	388 273	440 325	492 378	545 430	597 482
130	202.80	bu	128 13	185 70	241 126	298 183	354 240	411 296	468 353	524 409	581 466	637 522	694 579
140	218.40	bu	182 67	242 128	303 189	364 250	425 310	486 371	547 432	608 493	669 554	730 615	791 676
150	234.00	bu	235 120	300 186	366 251	431 316	496 381	561 447	627 512	692 577	757 643	823 708	888 773

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 2014 input prices.

Table 29.A Estimated costs per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
HARVEST AIDS					
Aim 2EC	oz	6.33	1.0000	6.33	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	164.0000	57.40	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4510	5.66	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	4.4111	14.11	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	15.4779	49.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	2.36	1.0000	2.36	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	9.86	1.0000	9.86	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____
TOTAL DIRECT EXPENSES				655.54	_____
FIXED EXPENSES					
Implements	acre	14.65	1.0000	14.65	_____
Tractors	acre	14.35	1.0000	14.35	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				110.37	_____
TOTAL SPECIFIED EXPENSES				765.91	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 29.B Summary of estimated costs and returns per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	164.0000	915.12	_____

TOTAL INCOME				915.12	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
HARVEST AIDS	acre	6.33	1.0000	6.33	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	79.52	1.0000	79.52	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	57.40	1.0000	57.40	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	12.55	0.6270	7.87	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	22.8336	73.05	_____
REPAIR & MAINTENANCE	acre	25.42	1.0000	25.42	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____

TOTAL DIRECT EXPENSES				655.54	_____
RETURNS ABOVE DIRECT EXPENSES				259.58	_____
TOTAL FIXED EXPENSES				110.37	_____

TOTAL SPECIFIED EXPENSES				765.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				149.21	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 29.C Estimated resource use for field operations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc.(Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Crop Oil Conc.(Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Crop Oil Conc.(Pet.)	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
Surfactant	pt					0.1000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 29.D Estimated costs for field operations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Field Cultivate Fld	32'		2.92	1.36	2.22			0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93			0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59			0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00						1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50						0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18			0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Command 3ME	pt	19.06						0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75						0.15	6.90		6.90
Seed Levees											
Rice Seed CF(Levees)	lb	10.80						0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80						0.04	1.84		1.84
App by Air (10 gal)	appl	8.00						0.18	8.18		8.18
Newpath 2SL	oz	20.82						0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20						0.16	7.36		7.36
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98						0.13	7.11		7.11
DAP	cwt	10.88						0.20	11.08		11.08
App Fert by Air	cwt	16.25						0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13						1.16	64.29		64.29
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Clearpath	lb	27.53						0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20						0.13	7.33		7.33
Aim 2EC	oz	6.33						0.12	6.45		6.45
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	1.50						0.02	1.52		1.52
Beyond	oz	5.36						0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80						0.03	1.83		1.83
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	9.75						0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88						0.56	38.44		38.44
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Stratego	pt	24.91						0.27	25.18		25.18
Surfactant	pt	0.36							0.36		0.36
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	2.85						0.03	2.88		2.88
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20			0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26			0.01	0.77	0.52	1.29
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	57.40						0.42	57.82		57.82
Dry Rice	bu	65.60						0.48	66.08		66.08
Disk Heavy	28'		4.74	2.69	3.61			0.04	11.08	8.70	19.78
Flood Irr.	acre		49.52	9.86	9.53			1.12	70.03	58.56	128.59
TOTALS		512.90	73.05	25.42	33.93	0.00	10.24	655.54	110.37	765.91	

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 29.E Estimated monthly income and expense flows per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

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	915.12	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.33	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	27.53	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.40	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	7.29	3.18	4.08	4.08	8.54	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	15.33	13.03	13.03	13.03	9.76	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	3.88	6.19	1.31	1.31	8.24	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	3.85	3.15	1.10	0.60	1.10	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	178.28	174.73	75.81	55.52	150.64	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-178.28	-174.73	-75.81	-55.52	764.48	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-187.76	-362.49	-438.30	-493.82	270.66	259.58

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 29.F Estimated returns for various price/yield combinations, per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE										
-----			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	-----dollars-----										
50	82.00	bu	-250 -360	-227 -337	-204 -315	-181 -292	-158 -269	-136 -246	-113 -223	-90 -200	-67 -177	-44 -154	-21 -132
60	98.40	bu	-194 -304	-166 -277	-139 -249	-111 -222	-84 -194	-56 -167	-29 -139	-2 -112	25 -84	52 -57	80 -30
70	114.80	bu	-137 -248	-105 -216	-73 -184	-41 -152	-9 -120	22 -88	54 -56	86 -24	118 7	150 39	182 71
80	131.20	bu	-81 -192	-45 -155	-8 -118	28 -82	64 -45	101 -9	137 27	174 64	211 100	247 137	284 173
90	147.60	bu	-25 -135	15 -94	56 -53	98 -12	139 28	180 70	221 111	262 152	303 193	345 234	386 275
100	164.00	bu	30 -79	76 -33	122 11	168 57	213 103	259 149	305 194	351 240	396 286	442 332	488 377
110	180.40	bu	87 -23	137 27	187 77	238 127	288 178	338 228	389 278	439 328	489 379	540 429	590 479
120	196.80	bu	143 32	198 87	253 142	308 197	362 252	417 307	472 362	527 417	582 472	637 527	692 581
130	213.20	bu	199 89	259 148	318 208	377 267	437 327	496 386	556 446	615 505	675 565	734 624	794 683
140	229.60	bu	255 145	319 209	383 273	447 337	512 401	576 465	640 529	704 593	768 657	832 721	896 785
150	246.00	bu	312 201	380 270	449 338	517 407	586 476	655 544	723 613	792 682	861 750	929 819	998 887

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 2014 input prices.

Table 30.A Estimated costs per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	1.2500	7.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	3.6700	92.67	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	29.2500	4.39	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	6.12	25.0000	153.00	_____
Rice Seed CFH(Levee)	lb	6.12	4.2500	26.01	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	4.5000	16.20	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.4200	28.73	_____
HAULING					
Haul Rice	bu	0.35	179.0000	62.65	_____
DRYING					
Dry Rice	bu	0.40	179.0000	71.60	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	12.69	1.0000	12.69	_____
TOTAL DIRECT EXPENSES				765.34	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				878.56	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 30.B Summary of estimated costs and returns per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	179.0000	998.82	_____
TOTAL INCOME				998.82	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.88	1.0000	17.88	_____
FERTILIZERS	acre	110.53	1.0000	110.53	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	179.01	1.0000	179.01	_____
ADJUVANTS	acre	16.20	1.0000	16.20	_____
CUSTOM FERTILIZE	acre	28.74	1.0000	28.74	_____
HAULING	acre	62.65	1.0000	62.65	_____
DRYING	acre	71.60	1.0000	71.60	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	12.69	1.0000	12.69	_____
TOTAL DIRECT EXPENSES				765.34	_____
RETURNS ABOVE DIRECT EXPENSES				233.48	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				878.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				120.26	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 30.C Estimated resource use for field operations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	2.00	Oct		0.09	0.09	0.09	0.08
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield Hyb	lb					25.0000				
Cruiser Maxx Rice	lbseed					25.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CFH (Levee)	lb					4.2500				
Cruiser Maxx Rice	lbseed					4.2500				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Crop Oil Conc. (Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Crop Oil Conc. (Pet.)	pt					0.5000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	179.0000				
Dry Rice	bu			1.00	Aug	179.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 30.D Estimated costs for field operations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield Hyb	lb	153.00					3.37	156.37		156.37
Cruiser Maxx Rice	lbseed	3.75					0.08	3.83		3.83
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CFH(Levee)	lb	26.01					0.57	26.58		26.58
Cruiser Maxx Rice	lbseed	0.64					0.01	0.65		0.65
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	17.36					0.32	17.68		17.68
Urea, Solid (46% N)	cwt	67.42					1.24	68.66		68.66
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	6.50					0.10	6.60		6.60
Urea, Solid (46% N)	cwt	25.25					0.37	25.62		25.62
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	62.65					0.46	63.11		63.11
Dry Rice	bu	71.60					0.53	72.13		72.13
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48		1.82	111.28	61.41	172.69
TOTALS		581.95	95.87	27.95	46.88	0.00	12.69	765.34	113.22	878.56

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 30.E Estimated monthly income and expense flows per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

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	998.82	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	2.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.28	25.25	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	179.01	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.24	6.50	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	62.65	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.60	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	6.30	3.40	0.99	0.35	1.21	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	292.57	188.39	67.83	32.01	163.98	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-292.57	-188.39	-67.83	-32.01	834.84	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-302.05	-490.44	-558.27	-590.28	244.56	233.48

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 30.F Estimated returns for various price/yield combinations, per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE-----										
-----			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	-----dollars-----										
50	89.50	bu	-323 -436	-298 -411	-273 -386	-248 -361	-223 -336	-198 -311	-173 -286	-148 -261	-123 -236	-98 -211	-73 -186
60	107.40	bu	-261 -374	-231 -345	-201 -315	-171 -285	-141 -255	-111 -225	-81 -195	-52 -165	-22 -135	7 -105	37 -75
70	125.30	bu	-200 -313	-165 -278	-130 -243	-95 -208	-60 -173	-25 -138	9 -103	44 -68	79 -33	114 1	149 35
80	143.20	bu	-139 -252	-99 -212	-59 -172	-19 -132	20 -92	60 -52	100 -12	140 27	180 67	220 107	260 147
90	161.10	bu	-77 -190	-32 -145	12 -100	57 -55	102 -11	147 33	192 78	237 123	281 168	326 213	371 258
100	179.00	bu	-16 -129	33 -79	83 -29	133 20	183 70	233 120	283 170	333 220	383 270	433 320	483 369
110	196.90	bu	45 -68	100 -13	155 41	209 96	264 151	319 206	374 261	429 316	484 371	539 426	594 481
120	214.80	bu	106 -6	166 53	226 113	286 173	346 233	406 292	466 352	526 412	585 472	645 532	705 592
130	232.70	bu	167 54	232 119	297 184	362 249	427 314	492 379	557 444	622 509	687 574	752 639	817 703
140	250.60	bu	229 116	299 186	369 255	439 325	508 395	578 465	648 535	718 605	788 675	858 745	928 815
150	268.50	bu	290 177	365 252	440 327	515 402	590 477	665 552	740 626	815 701	890 776	964 851	1039 926

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 2014 input prices.

Table 31.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	0.4300	10.54	_____
Potash (60% K2O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.6246	20.40	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR	hour	12.56	1.4760	18.55	_____
DIESEL FUEL					
Tractors	gal	3.20	17.5722	56.24	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	10.28	1.0000	10.28	_____
Tractors	acre	10.20	1.0000	10.20	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.59	1.0000	7.59	_____
TOTAL DIRECT EXPENSES				637.93	_____
FIXED EXPENSES					
Implements	acre	32.48	1.0000	32.48	_____
Tractors	acre	62.18	1.0000	62.18	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				107.78	_____
TOTAL SPECIFIED EXPENSES				745.71	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

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, 8 row-38 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2309	2.09	_____
OPERATOR LABOR	hour	12.55	1.8450	23.15	_____
UNALLOCATED LABOR	hour	12.56	1.4760	18.55	_____
DIESEL FUEL	gal	3.20	19.5556	62.61	_____
REPAIR & MAINTENANCE	acre	22.48	1.0000	22.48	_____
INTEREST ON OP. CAP.	acre	7.59	1.0000	7.59	_____

TOTAL DIRECT EXPENSES				637.93	_____
RETURNS ABOVE DIRECT EXPENSES				127.07	_____
TOTAL FIXED EXPENSES				107.78	_____

TOTAL SPECIFIED EXPENSES				745.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				19.29	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

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, 8 row-38 inch
 All Areas, Mississippi, 2015

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	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					1.0000				
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				
Cadre	oz					1.4400				
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
Karate Z	oz					1.5000				
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
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.84	1.62	2.07	1.47

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 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, 8 row-38 inch
 All Areas, Mississippi, 2015

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		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Fold.	8R-38		2.29	0.52	1.65			0.08	4.54	2.94	7.48
Peanut Plt&Pre Rigid	8R-38		3.78	2.33	3.82			0.18	10.11	6.98	17.09
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	4.01						0.06	4.07		4.07
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	5.77						0.06	5.83		5.83
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	4R-38		5.83	2.18	4.21			0.04	12.26	7.31	19.57
Peanut Harvester	4R-38		34.64	13.01	21.11			0.25	69.01	64.41	133.42
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
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
TOTALS		501.46	62.61	22.48	43.79	0.00	7.59	637.93	107.78	745.71	

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 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, 8 row-38 inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	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	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	25.46	39.54	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	45.00	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	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	5.95	1.44	1.92	1.20	32.80
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	6.58	1.53	2.04	1.27	50.68
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.01	0.48	0.64	0.40	17.79
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.73	0.76	1.20	0.36	0.68
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	151.21	52.17	110.55	49.52	188.16
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-151.21	-52.17	-110.55	-49.52	576.84
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-237.53	-289.70	-400.25	-449.77	127.07

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

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, 8 row-38 inch
 All Areas, Mississippi, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-311 -418	-292 -399	-272 -380	-253 -361	-234 -342	-215 -323	-196 -304	-177 -285	-158 -265	-139 -246	-119 -227
60	1.08	ton	-261 -369	-238 -346	-215 -323	-192 -300	-169 -277	-146 -254	-124 -231	-101 -208	-78 -185	-55 -162	-32 -140
70	1.26	ton	-212 -320	-185 -293	-158 -266	-132 -239	-105 -213	-78 -186	-51 -159	-24 -132	1 -105	28 -79	55 -52
80	1.44	ton	-162 -270	-132 -240	-101 -209	-71 -178	-40 -148	-9 -117	20 -87	51 -56	81 -25	112 4	143 35
90	1.62	ton	-113 -221	-79 -186	-44 -152	-10 -118	24 -83	58 -49	92 -14	127 19	161 54	196 88	230 122
100	1.80	ton	-64 -171	-25 -133	12 -95	50 -57	88 -18	127 19	165 57	203 95	241 134	280 172	318 210
110	1.98	ton	-14 -122	27 -80	69 -38	111 3	153 45	195 87	237 129	279 171	321 214	363 256	405 298
120	2.16	ton	34 -73	80 -27	126 18	172 64	218 110	264 156	309 202	355 248	401 294	447 339	493 385
130	2.34	ton	83 -23	133 25	183 75	233 125	282 175	332 224	382 274	432 324	481 374	531 423	581 473
140	2.52	ton	133 25	186 79	240 132	294 186	347 239	401 293	454 346	508 400	561 453	615 507	668 561
150	2.70	ton	182 74	240 132	297 189	354 247	412 304	469 361	527 419	584 476	641 533	699 591	756 648

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 2014 input prices.

Table 32.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	0.4300	10.54	_____
Potash (60% K2O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.6876	21.18	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR					
	hour	12.57	1.5264	19.19	_____
DIESEL FUEL					
Tractors	gal	3.20	18.0359	57.71	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	10.69	1.0000	10.69	_____
Tractors	acre	10.38	1.0000	10.38	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.71	1.0000	7.71	_____
TOTAL DIRECT EXPENSES				641.82	_____
FIXED EXPENSES					
Implements	acre	30.97	1.0000	30.97	_____
Tractors	acre	63.23	1.0000	63.23	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				107.32	_____
TOTAL SPECIFIED EXPENSES				749.14	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 32.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2629	2.38	_____
OPERATOR LABOR	hour	12.55	1.9080	23.93	_____
UNALLOCATED LABOR	hour	12.57	1.5264	19.19	_____
DIESEL FUEL	gal	3.20	20.0193	64.08	_____
REPAIR & MAINTENANCE	acre	23.07	1.0000	23.07	_____
INTEREST ON OP. CAP.	acre	7.71	1.0000	7.71	_____

TOTAL DIRECT EXPENSES				641.82	_____
RETURNS ABOVE DIRECT EXPENSES				123.18	_____
TOTAL FIXED EXPENSES				107.32	_____

TOTAL SPECIFIED EXPENSES				749.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.86	_____

Note: Cost of production estimates are based on 2014 input prices

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 32.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

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	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					1.0000				
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				
Cadre	oz					1.4400				
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
Karate Z	oz					1.5000				
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
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.90	1.68	2.17	1.52

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 32.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

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		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Rigid	8R-30		4.35	0.94	3.14			0.15	8.58	5.35	13.93
Peanut Plt&Pre Rigid	8R-30		4.78	3.10	4.83			0.23	12.94	9.09	22.03
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	4.01						0.06	4.07		4.07
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	5.77						0.06	5.83		5.83
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	4R-30		7.38	2.76	5.33			0.06	15.53	9.26	24.79
Peanut Harvester	4R-30		31.50	11.83	19.20			0.23	62.76	57.48	120.24
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
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
TOTALS		501.46	64.08	23.07	45.50	0.00	7.71	641.82	107.32	749.14	

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 32.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	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	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	25.46	39.54	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	45.00	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	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	8.45	1.44	1.92	1.20	32.01
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	9.64	1.53	2.04	1.27	49.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	4.20	0.48	0.64	0.40	17.19
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.85	0.76	1.20	0.36	0.68
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	158.08	52.17	110.55	49.52	185.18
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-158.08	-52.17	-110.55	-49.52	579.82
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-244.40	-296.57	-407.12	-456.64	123.18

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 32.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, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-315 -422	-295 -403	-276 -384	-257 -364	-238 -345	-219 -326	-200 -307	-181 -288	-162 -269	-142 -250	-123 -231
60	1.08	ton	-265 -372	-242 -349	-219 -327	-196 -304	-173 -281	-150 -258	-127 -235	-104 -212	-82 -189	-59 -166	-36 -143
70	1.26	ton	-216 -323	-189 -296	-162 -270	-135 -243	-109 -216	-82 -189	-55 -162	-28 -136	-2 -109	24 -82	51 -55
80	1.44	ton	-166 -274	-136 -243	-105 -212	-75 -182	-44 -151	-13 -121	16 -90	47 -59	77 -29	108 1	139 31
90	1.62	ton	-117 -224	-83 -190	-48 -155	-14 -121	20 -87	54 -52	89 -18	123 16	157 50	192 85	226 119
100	1.80	ton	-68 -175	-29 -137	8 -98	46 -60	84 -22	123 15	161 54	199 92	237 130	276 168	314 207
110	1.98	ton	-18 -126	23 -83	65 -41	107 0	149 42	191 84	233 126	275 168	317 210	359 252	402 294
120	2.16	ton	30 -76	76 -30	122 15	168 61	214 106	260 152	306 198	352 244	397 290	443 336	489 382
130	2.34	ton	80 -27	129 22	179 72	229 121	278 171	328 221	378 271	428 320	477 370	527 420	577 470
140	2.52	ton	129 22	183 75	236 129	290 182	343 236	397 289	450 343	504 397	557 450	611 504	664 557
150	2.70	ton	178 71	236 128	293 186	351 243	408 301	465 358	523 415	580 473	637 530	695 587	752 645

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 2014 input prices.

Table 33.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	0.4300	10.54	_____
Potash (60% K2O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.1856	14.88	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR					
	hour	12.58	1.1248	14.16	_____
DIESEL FUEL					
Tractors	gal	3.20	12.8051	40.97	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	8.29	1.0000	8.29	_____
Tractors	acre	7.43	1.0000	7.43	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.44	1.0000	7.44	_____
TOTAL DIRECT EXPENSES				607.48	_____
FIXED EXPENSES					
Implements	acre	27.82	1.0000	27.82	_____
Tractors	acre	45.27	1.0000	45.27	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				86.21	_____
TOTAL SPECIFIED EXPENSES				693.69	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 33.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
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	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.1905	1.73	_____
OPERATOR LABOR	hour	12.55	1.4060	17.63	_____
UNALLOCATED LABOR	hour	12.58	1.1248	14.16	_____
DIESEL FUEL	gal	3.20	14.7884	47.34	_____
REPAIR & MAINTENANCE	acre	17.72	1.0000	17.72	_____
INTEREST ON OP. CAP.	acre	7.44	1.0000	7.44	_____

TOTAL DIRECT EXPENSES				607.48	_____
RETURNS ABOVE DIRECT EXPENSES				157.52	_____
TOTAL FIXED EXPENSES				86.21	_____

TOTAL SPECIFIED EXPENSES				693.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				71.31	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 33.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

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	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					1.4400				
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				
Cadre	oz					1.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer	600-750gal	60' 175hp	0.017	1.00	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
Karate Z	oz					1.5000				
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
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.40	1.18	1.59	1.12

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 33.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

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		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Fold.	12R-38		1.71	0.45	1.04			0.06	3.26	2.54	5.80
Peanut Plt&Pre Fold.	12R-38		2.52	2.76	2.55			0.14	7.97	6.87	14.84
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	5.77						0.08	5.85		5.85
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	4.01						0.04	4.05		4.05
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	6R-38		3.88	1.49	2.81			0.03	8.21	5.31	13.52
Peanut Harvester	6R-38		23.16	8.58	14.12			0.17	46.03	45.35	91.38
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
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
TOTALS		501.46	47.34	17.72	33.52	0.00	7.44	607.48	86.21	693.69	

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 33.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	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	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	27.22	37.78	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	45.00	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	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	4.07	1.44	1.92	1.20	24.41
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.51	4.74	1.53	2.04	1.27	37.25
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.37	0.48	0.64	0.40	12.67
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.67	0.78	1.18	0.36	0.59
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	147.79	53.95	108.77	49.52	161.13
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-147.79	-53.95	-108.77	-49.52	603.87
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-234.11	-288.06	-396.83	-446.35	157.52

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 33.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-280 -366	-261 -347	-242 -328	-223 -309	-204 -290	-185 -271	-165 -252	-146 -233	-127 -213	-108 -194	-89 -175
60	1.08	ton	-231 -317	-208 -294	-185 -271	-162 -248	-139 -225	-116 -202	-93 -179	-70 -156	-47 -133	-24 -110	-1 -87
70	1.26	ton	-181 -268	-155 -241	-128 -214	-101 -187	-74 -161	-48 -134	-21 -107	5 -80	32 -53	59 -27	85 -0
80	1.44	ton	-132 -218	-101 -188	-71 -157	-40 -126	-10 -96	20 -65	51 -35	81 -4	112 26	142 56	173 87
90	1.62	ton	-83 -169	-48 -134	-14 -100	20 -66	54 -31	89 2	123 37	157 71	192 106	226 140	261 174
100	1.80	ton	-33 -119	4 -81	42 -43	81 -5	119 33	157 71	195 109	234 147	272 186	310 224	348 262
110	1.98	ton	15 -70	57 -28	99 13	141 55	183 97	226 139	268 181	310 223	352 266	394 308	436 350
120	2.16	ton	65 -21	110 24	156 70	202 116	248 162	294 208	340 254	386 300	432 346	478 391	524 437
130	2.34	ton	114 28	164 77	213 127	263 177	313 227	363 276	412 326	462 376	512 426	561 475	611 525
140	2.52	ton	163 77	217 131	270 184	324 238	378 291	431 345	485 398	538 452	592 506	645 559	699 613
150	2.70	ton	213 127	270 184	327 241	385 299	442 356	500 413	557 471	614 528	672 586	729 643	786 700

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 2014 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, 2015

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	291,000	300	8	13.64	12.55	43.64	30.31	86.51	116.03	202.54
Combine (300-349 hp)	325 hp	325,000	300	8	16.73	12.55	53.53	33.85	99.94	129.59	229.53
Combine (350-399 hp)	355 hp	350,000	300	8	18.27	12.55	58.46	36.45	107.47	139.56	247.03
Combine (400-449 hp)	425 hp	375,000	300	8	21.87	12.55	70.00	39.06	121.61	149.53	271.14
Combine (450-499hp)	475 hp	397,000	300	8	24.44	12.55	78.23	41.35	132.14	158.30	290.44
Cotton Stripper	173 hp	170,000	200	8	8.08	12.55	25.85	26.56	64.96	101.68	166.65
Tractor (20-39hp)CB	MFWD 30	31,100	600	8	1.54	12.55	4.94	0.97	18.46	5.64	24.11
Tractor (20-39hp)RB	MFWD 30	18,600	600	8	1.54	12.55	4.94	0.58	18.07	3.37	21.44
Tractor (40-59hp)CB	2WD 50	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor (40-59hp)CB	MFWD 50	38,900	600	8	2.57	12.55	8.23	1.21	22.00	7.06	29.06
Tractor (40-59hp)RB	2WD 50	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor (60-89hp)RB	MFWD 50	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor (60-89hp)CB	2WD 75	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor (60-89hp)CB	MFWD 75	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor (60-89hp)RB	2WD 75	35,000	600	8	3.86	12.55	12.35	1.09	25.99	6.35	32.35
Tractor (60-89hp)RB	MFWD 75	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor (90-119hp)CB	2WD 105	63,100	600	8	5.40	12.55	17.29	1.97	31.81	11.45	43.27
Tractor (90-119hp)CB	MFWD 105	74,400	600	8	5.40	12.55	17.29	2.32	32.16	13.51	45.68
Tractor (90-119hp)RB	2WD 105	54,300	600	8	5.40	12.55	17.29	1.69	31.54	9.86	41.40
Tractor (90-119hp)RB	MFWD 105	56,900	600	8	5.40	12.55	17.29	1.77	31.62	10.33	41.95
Tractor (120-139hp)CB	2WD 130	96,300	600	8	6.69	12.55	21.41	3.00	36.97	17.48	54.46
Tractor (120-139hp)CB	MFWD 130	114,000	600	8	6.69	12.55	21.41	3.56	37.52	20.70	58.22
Tractor (140-159hp)CB	2WD 150	127,000	600	8	7.72	12.55	24.70	3.96	41.22	23.06	64.29
Tractor (140-159hp)CB	MFWD 150	143,000	600	8	7.72	12.55	24.70	4.46	41.72	25.97	67.69
Tractor (160-179hp)CB	MFWD 170	156,000	600	8	8.75	12.55	28.00	4.87	45.42	29.71	75.14
Tractor (180-199hp)CB	MFWD 190	167,000	600	8	9.77	12.55	31.29	5.21	49.06	31.81	80.87
Tractor (200-249hp)CB	MFWD 225	226,000	600	8	11.58	12.55	37.06	7.06	56.67	43.05	99.72
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	12.55	37.06	8.65	58.26	52.76	111.03
Tractor (250-349hp)CB	4WD 300	277,000	600	8	15.44	12.55	49.41	8.65	70.62	52.76	123.38
Tractor (250-349hp)CB	MFWD 300	271,000	600	8	15.44	12.55	49.41	8.46	70.43	51.62	122.05
Tractor (250-349hp)CB	Track 300	281,000	600	8	15.44	12.55	49.41	8.78	70.74	53.52	124.27
Tractor (350-449hp)CB	4WD 400	313,000	600	8	20.58	12.55	65.88	9.78	88.21	59.62	147.84
Tractor (350-449hp)CB	Track 400	364,000	600	8	20.58	12.55	65.88	11.37	89.80	69.33	159.14
Tractor (450-550hp)CB	4WD 500	361,000	600	8	25.73	12.55	82.35	11.28	106.18	68.76	174.95
Tractor (450-550hp)CB	Track 500	399,000	600	8	25.73	12.55	82.35	12.46	107.37	76.00	183.38
Utility Vehicle	900 CC	14,300	200	8	1.00	12.55	3.40	2.23	18.18	8.55	26.73
Utility Vehicle	800 CC	6,500	200	8	0.70	12.55	2.38	1.01	15.94	3.88	19.83
Utility Vehicle-mule	600 CC	11,500	200	8	0.50	12.55	1.70	1.79	16.04	6.87	22.92

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, 2015

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-30(350)	350,000	200	8	18.01	0.327	7.07	18.87	17.90	43.85	68.53	112.38
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.57	10.82	10.75	27.15	41.16	68.31
Cotton Picker	4R-38(350)	406,000	200	8	18.01	0.257	5.57	14.86	16.35	36.78	62.59	99.38
Cotton Picker	4R2x1(350)	413,000	200	8	18.01	0.172	3.72	9.93	11.11	24.77	42.56	67.34
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	4.71	12.76	15.85	33.33	60.70	94.03
Cotton Picker	6R-38(355)	478,000	200	8	18.27	0.172	3.72	10.07	12.86	26.66	49.26	75.93
Cotton Picker/Module	4R-38(365)	548,000	200	8	18.78	0.257	5.57	15.49	22.07	43.14	84.49	127.63
Cotton Picker/Module	6R-30(365)	608,000	200	8	18.78	0.218	4.71	13.12	20.73	38.57	79.36	117.94
Cotton Picker/Module	6R-30(500)	688,000	200	8	25.73	0.218	4.71	17.97	23.46	46.15	89.81	135.96
Cotton Picker/Module	6R-38(365)	606,000	200	8	18.78	0.172	3.72	10.35	16.31	30.39	62.45	92.85
Cotton Picker/Module	6R-38(500)	689,000	200	8	25.73	0.172	3.72	14.19	18.55	36.46	71.01	107.47
Dry Applicator SP	70'300cuft	289,000	350	8	16.98	0.015	0.25	0.82	0.23	1.31	1.49	2.80
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.60	0.27	0.08	0.95	0.53	1.48
Sprayer 600-750gal	60' 175hp	174,000	350	8	9.00	0.017	0.30	0.50	0.16	0.97	1.04	2.02
Sprayer 600-825gal	80' 175hp	174,000	350	8	11.81	0.013	0.22	0.49	0.12	0.84	0.78	1.63
Sprayer 600-825gal	90' 250hp	254,000	350	8	12.73	0.011	0.20	0.47	0.15	0.83	1.02	1.85
Sprayer 800gal	100' 250hp	256,000	350	8	14.15	0.010	0.18	0.47	0.14	0.80	0.92	1.73
Sprayer 800gal	80' 250hp	242,000	350	8	12.86	0.013	0.22	0.54	0.17	0.94	1.09	2.03
Sprayer 1000-1400gal	90' 275hp	290,000	350	8	14.15	0.010	0.18	0.47	0.16	0.82	1.04	1.87
Sprayer 1000gal	100' 300hp	302,000	350	8	15.44	0.010	0.18	0.52	0.17	0.87	1.09	1.96
Sprayer 1200+gal	120' 300hp	318,000	350	8	15.44	0.008	0.15	0.43	0.15	0.73	0.95	1.69
Utility Vehicle	20'	15,650	200	8	1.00	0.052	0.90	0.17	0.12	1.21	0.49	1.70
Utility Vehicle	75"ropewic	8,750	200	8	0.70	0.170	3.22	0.40	0.23	3.86	0.89	4.75

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, 2015

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp. P.U.	Total Direct	--Fixed-- Imp. P.U.	Total Cost			
			dollars	hours	years	hr/ac	-----\$/acre-----								
Bed-Paratill	Fold	8R-38	MFWD 225	54,400	150	12	0.080	1.01	2.99	1.58	0.57	6.16	2.64	3.47	12.28
Bed-Paratill	Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.67	1.99	1.34	0.37	4.38	2.23	2.31	8.93
Bed-Paratill	Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.67	1.99	1.34	0.37	4.38	2.23	2.31	8.93
Bed-Paratill	Rigid	4R-30	MFWD 225	16,500	150	12	0.204	2.56	7.57	1.21	1.44	12.79	2.02	8.79	23.62
Bed-Paratill	Rigid	4R-38	MFWD 225	15,200	150	12	0.160	2.01	5.96	0.88	1.13	10.00	1.47	6.92	18.39
Bed-Paratill	Rigid	6R-30	MFWD 225	22,600	150	12	0.136	1.70	5.04	1.11	0.96	8.83	1.85	5.86	16.54
Bed-Paratill	Rigid	6R-38	MFWD 225	20,300	150	12	0.107	1.34	3.98	0.78	0.75	6.88	1.31	4.62	12.82
Bed-Paratill	Rigid	8R-30	MFWD 225	27,200	150	12	0.102	1.28	3.78	1.00	0.72	6.79	1.67	4.39	12.86
Bed-Paratill	Rigid	8R-38	MFWD 225	24,500	150	12	0.080	1.01	2.99	0.71	0.57	5.29	1.19	3.47	9.95
Bed-Paratill	w/rol	4R-30	MFWD 225	17,600	150	12	0.204	2.56	7.57	1.29	1.44	12.87	2.16	8.79	23.83
Bed-Paratill	w/rol	4R-38	MFWD 225	17,600	150	12	0.160	2.01	5.96	1.02	1.13	10.14	1.70	6.92	18.77
Bed-Paratill	w/rol	6R-38	MFWD 225	22,700	150	12	0.107	1.34	3.98	0.88	0.75	6.97	1.46	4.62	13.07
Bed-Rip/Disk	Fold.	8R-38	MFWD 190	38,000	300	20	0.073	0.91	2.28	0.13	0.38	3.72	0.62	2.32	6.67
Bed-Rip/Disk	Fold.	12R-30	MFWD 225	53,200	300	20	0.061	0.77	2.28	0.16	0.43	3.65	0.73	2.65	7.04
Bed-Rip/Disk	Fold.	12R-38	MFWD 225	53,200	300	20	0.046	0.58	1.71	0.12	0.32	2.74	0.55	1.98	5.28
Bed-Rip/Disk	Rigid	4R-30	MFWD 190	16,700	300	20	0.184	2.32	5.78	0.15	0.96	9.22	0.69	5.88	15.79
Bed-Rip/Disk	Rigid	4R-38	MFWD 190	16,700	300	20	0.146	1.84	4.59	0.12	0.76	7.32	0.54	4.66	12.53
Bed-Rip/Disk	Rigid	6R-38	MFWD 190	23,000	300	20	0.097	1.22	3.04	0.11	0.50	4.88	0.50	3.09	8.48
Bed-Rip/Disk	Rigid	8R-30	MFWD 190	29,800	300	20	0.139	1.74	4.35	0.20	0.72	7.02	0.92	4.42	12.37
Bed-Rip/Disk	Rigid	8R-38	MFWD 190	29,800	300	20	0.073	0.91	2.28	0.10	0.38	3.69	0.48	2.32	6.50
Bed-Rip/Disk	Rigid	6R-30	MFWD 190	23,000	300	20	0.123	1.54	3.85	0.14	0.64	6.18	0.63	3.92	10.74
Bed-Rip/Disk/Cond.		6-Row	MFWD 225	23,900	150	12	0.107	1.34	3.98	0.92	0.75	7.02	1.54	4.62	13.19
Bed-Rip/Disk/Cond.		8-Row	MFWD 225	31,400	150	12	0.080	1.01	2.99	0.91	0.57	5.49	1.52	3.47	10.49
Bed-Roll-Fold.		8R-38	MFWD 190	27,000	160	10	0.074	0.93	2.31	0.50	0.38	4.13	1.27	2.35	7.76
Bed-Roll-Fold.		12R-30	MFWD 225	28,800	160	10	0.062	0.78	2.31	0.45	0.44	3.99	1.14	2.69	7.82
Bed-Roll-Fold.		12R-38	MFWD 225	32,400	160	10	0.049	0.61	1.82	0.39	0.34	3.19	1.01	2.12	6.33
Bed-Roll-Fold.		16R-30	MFWD 225	33,600	160	10	0.046	0.58	1.73	0.39	0.33	3.05	1.00	2.01	6.07
Bed-Roll-Rigid		8R-38	MFWD 190	20,200	160	10	0.074	0.93	2.31	0.37	0.38	4.01	0.95	2.35	7.32
Bed/Disk (Hipper)		4R-38	MFWD 150	7,820	160	10	0.147	1.85	3.64	0.28	0.65	6.44	0.73	3.83	11.01
Bed/Disk (Hipper)		6R-30	MFWD 170	12,800	160	10	0.125	1.56	3.50	0.40	0.60	6.07	1.01	3.71	10.81
Bed/Disk (Hipper)		6R-38	MFWD 170	13,500	160	10	0.098	1.23	2.76	0.33	0.48	4.81	0.84	2.93	8.59
Bed/Disk (Hipper)		8R-30	MFWD 190	17,400	160	10	0.093	1.17	2.93	0.40	0.48	5.00	1.03	2.98	9.02
Bed/Disk (Hipper)		8R-38 2x1	MFWD 190	31,900	160	10	0.049	0.61	1.54	0.39	0.25	2.81	1.00	1.56	5.38
Bed/Disk (Hipper)		10R-30	MFWD 225	19,900	160	10	0.075	0.94	2.77	0.37	0.52	4.62	0.95	3.22	8.80
Bed/Disk (Hipper)		10R-38	MFWD 225	23,100	160	10	0.059	0.74	2.19	0.34	0.41	3.69	0.87	2.54	7.11
Bed/Disk (Hipper)		12R-30	MFWD 225	29,100	160	10	0.062	0.78	2.31	0.45	0.44	3.99	1.15	2.69	7.84
Bed/Disk (Hipper)		12R-38	MFWD 225	31,900	160	10	0.049	0.61	1.82	0.39	0.34	3.18	1.00	2.12	6.31
Bed/Disk (Hipper)Fl		8R-38	MFWD 190	21,300	160	10	0.074	0.93	2.31	0.39	0.38	4.03	1.00	2.35	7.39
Bed/Disk (Hipper)Rd		8R-38	MFWD 190	19,800	160	10	0.074	0.93	2.31	0.36	0.38	4.00	0.93	2.35	7.29
Bed/Disk w/roller		8R-30/40	MFWD 190	22,100	160	10	0.093	1.17	2.93	0.51	0.48	5.11	1.32	2.98	9.42
Bed/Disk w/roller		12R-30/40	MFWD 225	47,200	160	10	0.062	0.78	2.31	0.73	0.44	4.27	1.87	2.69	8.85
Bed/Disk w/roller		8R-38	MFWD 190	25,400	160	10	0.074	0.93	2.31	0.47	0.38	4.10	1.19	2.35	7.66
Bed/Lister		4R-38	MFWD 150	18,200	160	8	0.228	2.86	5.64	0.97	1.02	10.50	2.96	5.93	19.40
Bed/Lister		6R-38	MFWD 150	15,500	160	8	0.120	1.50	2.96	0.43	0.53	5.45	1.33	3.12	9.90
Bed/Lister		8R-30	MFWD 190	22,400	160	8	0.114	1.43	3.57	0.59	0.59	6.20	1.82	3.63	11.66
Bed/Lister		8R-38	MFWD 190	22,800	160	8	0.090	1.13	2.82	0.48	0.47	4.91	1.47	2.87	9.25
Bed/Lister		8R-38 2x1	MFWD 190	35,700	160	8	0.060	0.75	1.88	0.50	0.31	3.45	1.53	1.91	6.89
Bed/Lister		10R-30	MFWD 225	30,100	160	8	0.091	1.14	3.38	0.64	0.64	5.82	1.96	3.93	11.71
Bed/Lister		10R-38	MFWD 225	33,100	160	8	0.072	0.90	2.66	0.55	0.50	4.64	1.70	3.10	9.44
Bed/Lister		12R-38	MFWD 225	35,700	160	8	0.060	0.75	2.22	0.50	0.42	3.90	1.53	2.58	8.02
Bed>Lister		16R-30	MFWD 225	45,900	160	8	0.035	0.44	1.30	0.37	0.24	2.36	1.15	1.51	5.03
Blade-Box		6'-7'	2WD 130	1,090	200	20	0.020	0.25	0.42	0.01	0.06	0.74	0.00	0.34	1.10
Blade-Box		8'-10'	2WD 50	5,060	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box		12'-16'	2WD 50	7,550	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper		6'-7'	2WD 50	1,150	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper		8'-10'	2WD 50	3,310	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper		12'-16'	2WD 50	6,730	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy		4R-30 (350)	MFWD 190	30,600	200	10	0.327	4.10	10.24	2.50	1.70	18.56	4.90	10.41	33.88
Boll Buggy		4R-38 (255)	MFWD 190	30,600	200	10	0.257	3.23	8.06	1.97	1.34	14.61	3.86	8.20	26.68
Boll Buggy		4R-38 (350)	MFWD 190	30,600	200	10	0.257	3.23	8.06	1.97	1.34	14.61	3.86	8.20	26.68
Boll Buggy		4R2x1 (350)	MFWD 190	30,600	200	10	0.172	2.16	5.39	1.31	0.89	9.77	2.58	5.48	17.83
Boll Buggy		6R-30 (355)	MFWD 190	30,600	200	10	0.218	2.73	6.83	1.66	1.13	12.37	3.26	6.94	22.58
Boll Buggy		6R-38 (355)	MFWD 190	30,600	200	10	0.172	2.16	5.39	1.31	0.89	9.77	2.58	5.48	17.83
Boll Buggy-Stripper		13' Bcast	MFWD 150	30,500	200	10	0.251	3.16	6.22	1.92	1.12	12.42	3.75	6.54	22.72
Boll Buggy-Stripper		16' Bcast	MFWD 150	30,600	200	10	0.204	2.56	5.05	1.56	0.91	10.10	3.06	5.31	18.48
Boll Buggy-Stripper		19' Bcast	MFWD 150	30,600	200	10	0.172	2.16	4.25	1.31	0.77	8.50	2.58	4.47	15.56
Boll Buggy-Stripper		4R-30 2x1	MFWD 150	30,600	200	10	0.218	2.73	5.39	1.66	0.97	10.77	3.26	5.66	19.71
Boll Buggy-Stripper		4R-36	MFWD 150	30,500	200	10	0.272	3.42	6.74	2.08	1.21	13.46	4.07	7.08	24.62
Boll Buggy-Stripper		4R-38	MFWD 150	30,600	200	10	0.257	3.23	6.36	1.97	1.15	12.72	3.86	6.69	23.28
Boll Buggy-Stripper		4R-38 2x1	MFWD 150	30,600	200	10	0.172	2.16	4.25	1.31	0.77	8.50	2.58	4.47	15.56
Boll Buggy-Stripper		5R-30	MFWD 150	30,600	200	10	0.261	3.28	6.47	2.00	1.17	12.93	3.92	6.80	23.65
Boll Buggy-Stripper		5R-38	MFWD 150	30,600	200	10	0.207	2.60	5.11	1.58	0.92	10.23	3.10	5.38	18.71
Boll Buggy-Stripper		6R-30	MFWD 150	30,600	200	10	0.218	2.73	5.39	1.66	0.97	10.77	3.26	5.66	19.71
Boll Buggy-Stripper		6R-38	MFWD 150	30,600	200	10	0.172	2.16	4.25	1.31	0.77	8.50	2.58	4.47	15.56
Boll Buggy-Stripper		8R-30	MFWD 150	30,600	200	10	0.163	2.05	4.04	1.25	0.73	8.08	2.45	4.25	14.78
Boll Buggy-Stripper		8R-36/38	MFWD 150	30,600	200	10	0.129	1.62	3.19	0.98	0.57	6.38	1.93	3.36	11.68
Chisel Plow-Folding		16'	2WD 130	22,500	150	12	0.115	1.45	2.47	0.93	0.34	5.21	1.56	2.02	8.79

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (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-----							
Chisel Plow-Folding	24'	MFWD 190	37,200	150	12	0.076	0.95	2.39	1.02	0.39	4.77	1.71	2.43	8.92
Chisel Plow-Folding	32'	MFWD 225	48,000	150	12	0.057	0.72	2.14	1.00	0.40	4.27	1.66	2.48	8.43
Chisel Plow-Folding	42'	MFWD 225	55,200	150	12	0.044	0.55	1.63	0.87	0.31	3.37	1.46	1.89	6.72
Chisel Plow-Folding	50'	MFWD 225	75,500	150	10	0.036	0.46	1.37	1.20	0.26	3.30	1.89	1.59	6.79
Chisel Plow-Folding	61'	MFWD 225	85,100	150	12	0.030	0.38	1.12	0.93	0.21	2.64	1.55	1.30	5.50
Chisel Plow-Rigid	10'	MFWD 170	6,000	150	12	0.184	2.32	5.17	0.40	0.90	8.79	0.66	5.49	14.95
Chisel Plow-Rigid	15'	2WD 130	11,900	150	12	0.123	1.54	2.63	0.52	0.37	5.08	0.88	2.15	8.12
Chisel Plow-Rigid	20'	MFWD 225	1,200	150	12	0.102	1.28	3.80	0.04	0.72	5.86	0.07	4.42	10.36
Chisel Plow-Rigid	24'	MFWD 190	13,100	150	12	0.077	0.96	2.41	0.36	0.40	4.14	0.60	2.45	7.20
Chisel-Harrow	21 shank	2WD 190	12,500	150	12	0.088	1.10	2.75	0.39	0.30	4.56	0.66	1.84	7.06
Chisel-Harrow	27 shank	MFWD 225	14,100	150	12	0.068	0.85	2.53	0.34	0.48	4.22	0.58	2.94	7.75
Coulter-Chisel-Harro	21 shank	2WD 190	19,200	150	12	0.088	1.10	2.75	0.61	0.30	4.77	1.01	1.84	7.63
Coulter-Chisel-Harro	27 shank	MFWD 225	24,000	150	12	0.068	0.85	2.53	0.59	0.48	4.47	0.98	2.94	8.41
Cult & PD Ridge Till	8R-30	2WD 150	30,100	200	12	0.110	1.87	2.71	1.58	0.43	6.61	1.54	2.53	10.70
Cult & PD Ridge Till	12R-30	2WD 190	41,300	200	12	0.073	1.25	2.29	1.45	0.25	5.25	1.41	1.53	8.20
Cultivate	4R-30	2WD 105	11,100	150	10	0.206	2.58	3.56	0.61	0.40	7.17	1.55	2.36	11.09
Cultivate	4R-38	2WD 105	11,900	150	10	0.162	2.03	2.80	0.51	0.27	5.63	1.31	1.60	8.55
Cultivate	6R-30	MFWD 150	15,900	150	10	0.137	1.72	3.39	0.58	0.61	6.32	1.48	3.57	11.37
Cultivate	6R-38	MFWD 150	15,700	150	10	0.108	1.36	2.68	0.45	0.48	4.98	1.15	2.81	8.96
Cultivate	8R-30	MFWD 190	20,600	150	10	0.103	1.29	3.22	0.56	0.53	5.62	1.44	3.28	10.35
Cultivate	8R-38	MFWD 190	21,800	150	10	0.073	0.92	2.30	0.42	0.38	4.04	1.09	2.34	7.47
Cultivate	8R-38 2x1	MFWD 190	29,700	150	10	0.054	0.68	1.69	0.42	0.28	3.09	1.09	1.72	5.91
Cultivate	10R-30	MFWD 225	28,200	150	10	0.082	1.03	3.05	0.62	0.58	5.29	1.58	3.55	10.42
Cultivate	12R-30	MFWD 225	36,300	150	10	0.068	0.86	2.54	0.66	0.48	4.56	1.69	2.95	9.21
Cultivate	12R-38	MFWD 225	37,400	150	10	0.054	0.68	2.01	0.54	0.38	3.61	1.37	2.33	7.33
Cultivate	16R-30	MFWD 225	45,200	150	10	0.051	0.64	1.91	0.62	0.36	3.54	1.58	2.21	7.34
Cultivate & Post	4R-30	2WD 105	17,100	150	10	0.220	3.75	3.80	1.00	0.37	8.93	2.55	2.16	13.66
Cultivate & Post	4R-38	2WD 105	17,800	150	10	0.173	2.95	2.99	0.82	0.29	7.07	2.09	1.70	10.87
Cultivate & Post	6R-30	MFWD 150	21,900	150	10	0.146	2.50	3.62	0.85	0.65	7.64	2.18	3.80	13.63
Cultivate & Post	6R-38	MFWD 150	21,700	150	10	0.115	1.97	2.86	0.67	0.51	6.02	1.70	3.00	10.74
Cultivate & Post	8R-30	MFWD 190	26,500	150	10	0.110	1.87	3.44	0.77	0.57	6.67	1.98	3.49	12.15
Cultivate & Post	8R-38	MFWD 190	27,800	150	10	0.086	1.48	2.72	0.64	0.45	5.30	1.64	2.76	9.71
Cultivate & Post	8R-38 2x1	MFWD 190	37,100	150	10	0.057	0.98	1.81	0.57	0.30	3.67	1.45	1.84	6.97
Cultivate & Post	10R-30	MFWD 225	34,100	150	10	0.088	1.50	3.26	0.80	0.62	6.18	2.03	3.78	12.01
Cultivate & Post	12R-30	MFWD 225	42,200	150	10	0.073	1.25	2.71	0.82	0.51	5.31	2.10	3.15	10.57
Cultivate & Post	12R-38	MFWD 225	44,700	150	10	0.057	0.98	2.14	0.69	0.40	4.23	1.75	2.49	8.48
Cultivate & Post	16R-30	MFWD 225	52,600	150	10	0.055	0.93	2.03	0.77	0.38	4.13	1.96	2.36	8.47
Cultivate Ridge Till	8R-30	2WD 170	25,000	200	12	0.103	1.29	2.88	1.23	0.38	5.80	1.20	2.33	9.34
Cultivate Ridge Till	12R-30	2WD 190	35,400	200	12	0.068	0.86	2.15	1.16	0.23	4.41	1.13	1.44	6.99
Disk & Incorporate	14'	2WD 130	27,800	200	10	0.149	2.55	3.20	1.24	0.45	7.45	2.12	2.61	12.19
Disk & Incorporate	20'	MFWD 190	43,600	180	10	0.092	1.16	2.89	1.34	0.48	5.87	2.28	2.94	11.10
Disk & Incorporate	24'	MFWD 190	48,500	200	10	0.087	1.49	2.73	1.27	0.45	5.94	2.15	2.77	10.88
Disk & Incorporate	28'	MFWD 225	51,200	200	10	0.074	1.27	2.77	1.14	0.52	5.72	1.95	3.22	10.90
Disk & Incorporate	32'	MFWD 225	56,800	200	10	0.065	1.11	2.42	1.11	0.46	5.12	1.89	2.81	9.83
Disk Harrow	14'	2WD 130	21,800	180	10	0.140	1.76	3.00	0.84	0.42	6.03	1.73	2.45	10.22
Disk Harrow	20'	MFWD 190	37,700	180	10	0.098	1.23	3.07	1.02	0.51	5.84	2.09	3.12	11.06
Disk Harrow	24'	MFWD 190	42,600	180	10	0.081	1.02	2.56	0.96	0.42	4.98	1.97	2.60	9.56
Disk Harrow	28'	MFWD 225	45,200	180	10	0.070	0.88	2.59	0.88	0.49	4.85	1.79	3.02	9.67
Disk Harrow	32'	MFWD 225	50,800	180	10	0.061	0.77	2.27	0.86	0.43	4.34	1.76	2.64	8.75
Disk Harrow	42'	MFWD 225	99,500	180	10	0.046	0.58	1.73	1.29	0.33	3.94	2.63	2.01	8.59
Disk Harrow 40-100hp	14'	2WD 75	14,100	180	10	0.140	1.76	1.73	0.54	0.15	4.19	1.12	0.89	6.20
Disk Heavy	14'	MFWD 150	21,800	180	10	0.145	1.83	3.60	0.88	0.65	6.97	1.80	3.79	12.56
Disk Heavy	20'	MFWD 170	37,700	180	10	0.097	1.22	2.72	1.01	0.47	5.43	2.07	2.89	10.40
Disk Heavy	28'	MFWD 190	45,200	180	10	0.075	0.94	2.36	0.95	0.39	4.66	1.93	2.40	9.00
Disk Ripper	15'	MFWD 225	40,400	180	10	0.136	1.70	5.04	1.52	0.96	9.24	3.11	5.86	18.23
Ditcher		2WD 130	4,910	200	10	0.020	0.25	0.42	0.03	0.06	0.77	0.05	0.34	1.17
Ditcher (1m/160a)		2WD 130	4,910	200	10	0.009	0.11	0.20	0.01	0.02	0.36	0.02	0.16	0.55
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.64	3.82	1.39	0.69	8.54	1.51	4.01	14.08
Fert Appl (Liquid)	6R-30	MFWD 170	16,300	150	8	0.130	2.23	3.66	1.42	0.63	7.96	1.55	3.89	13.40
Fert Appl (Liquid)	6R-38	MFWD 170	14,500	150	8	0.103	1.76	2.89	0.99	0.50	6.16	1.08	3.07	10.32
Fert Appl (Liquid)	8R-30	MFWD 190	15,200	150	8	0.098	1.67	3.07	0.99	0.51	6.25	1.08	3.12	10.46
Fert Appl (Liquid)	8R-38	MFWD 190	17,300	150	8	0.077	1.32	2.42	0.89	0.40	5.05	0.97	2.46	8.50
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	16,900	150	8	0.051	0.88	1.61	0.58	0.26	3.35	0.63	1.64	5.63
Fert Appl (Liquid)	10R-30	MFWD 225	18,600	150	8	0.078	1.34	2.91	0.97	0.55	5.78	1.06	3.38	10.22
Fert Appl (Liquid)	12R-30	MFWD 225	20,300	150	8	0.061	1.05	2.29	0.83	0.43	4.63	0.91	2.66	8.21
Fert Appl (Liquid)	12R-38	MFWD 225	19,400	150	8	0.078	1.34	2.91	1.01	0.55	5.82	1.10	3.38	10.31
Fert Appl (Liquid)	12R-38	MFWD 225	18,500	150	8	0.051	0.88	1.91	0.63	0.36	3.80	0.69	2.22	6.72
Field Cult & Inc	42'	MFWD 225	60,400	100	10	0.037	0.64	1.39	0.57	0.26	2.88	2.32	1.62	6.83
Field Cult & Inc	50'	MFWD 225	70,900	100	10	0.031	0.54	1.17	0.56	0.22	2.50	2.29	1.36	6.16
Field Cult & Inc Fld	24'	MFWD 170	32,200	100	10	0.066	1.12	1.85	0.53	0.32	3.83	2.17	1.96	7.96
Field Cult & Inc Fld	32'	MFWD 190	44,700	100	10	0.049	0.84	1.55	0.55	0.25	3.21	2.25	1.57	7.04
Field Cult & Inc Rdg	12'	2WD 150	17,500	100	10	0.132	2.25	3.26	0.57	0.52	6.62	2.35	3.04	12.03
Field Cultivate Fld	24'	MFWD 170	26,200	100	10	0.062	0.78	1.74	0.40	0.30	3.23	1.66	1.84	6.74
Field Cultivate Fld	32'	MFWD 190	37,300	100	10	0.046	0.58	1.46	0.43	0.24	2.72	1.77	1.48	5.98
Field Cultivate Fld	42'	MFWD 225	53,000	100	10	0.035	0.44	1.31	0.47	0.25	2.48	1.92	1.53	5.93
Field Cultivate Fld	50'	MFWD 225	63,300	100	10	0.029	0.37	1.10	0.47	0.21	2.16	1.92	1.28	5.37
Field Cultivate Rdg	12'	2WD 150	11,500	100	10	0.124	1.56	3.07	0.35	0.49	5.48	1.45	2.86	9.81
Grain Cart Corn	500 bu	MFWD 190	24,700	200	12	0.031	0.40	0.99	0.21	0.16	1.78	0.35	1.01	3.15

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (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-----														
Grain Cart Corn	700 bu	MFWD 190	34,200	200	12	0.025	0.31	0.78	0.23	0.13	1.45	0.38	0.79	2.63
Grain Cart Corn	1000 bu	MFWD 225	48,300	200	12	0.025	0.31	0.92	0.32	0.17	1.74	0.54	1.07	3.36
Grain Cart Rice	500 bu	MFWD 190	24,700	200	12	0.062	0.78	1.95	0.41	0.32	3.48	0.69	1.98	6.16
Grain Cart Rice	700 bu	MFWD 190	34,200	200	12	0.055	0.69	1.72	0.50	0.28	3.20	0.84	1.74	5.80
Grain Cart Rice	1000 bu	MFWD 190	48,300	200	12	0.045	0.57	1.43	0.59	0.23	2.84	0.99	1.45	5.30
Grain Cart Soybean	500 bu	MFWD 190	24,700	200	12	0.025	0.32	0.79	0.17	0.13	1.42	0.28	0.81	2.51
Grain Cart Soybean	700 bu	MFWD 190	34,200	200	12	0.021	0.26	0.66	0.19	0.11	1.23	0.32	0.67	2.24
Grain Cart Soybean	1000 bu	MFWD 190	48,300	200	12	0.021	0.26	0.66	0.27	0.11	1.32	0.46	0.67	2.45
Grain Cart Wht/Sor	500 bu	MFWD 190	24,700	200	12	0.025	0.32	0.79	0.17	0.13	1.42	0.28	0.81	2.51
Grain Cart Wht/Sor	700 bu	MFWD 190	34,200	200	12	0.021	0.26	0.66	0.19	0.11	1.23	0.32	0.67	2.24
Grain Cart Wht/Sor	1000 bu	MFWD 190	48,300	200	12	0.021	0.26	0.66	0.27	0.11	1.32	0.46	0.67	2.45
Grain Drill	8'	2WD 130	23,200	150	8	0.235	5.09	5.04	2.05	0.70	12.90	3.77	4.12	20.80
Grain Drill	10'	2WD 130	25,900	150	8	0.188	4.07	4.03	1.83	0.56	10.51	3.37	3.29	17.18
Grain Drill	12'	2WD 130	22,700	150	8	0.157	3.39	3.36	1.33	0.47	8.57	2.46	2.74	13.78
Grain Drill	15'	MFWD 150	30,500	150	8	0.125	2.71	3.10	1.43	0.56	7.82	2.64	3.26	13.73
Grain Drill	20'	MFWD 170	37,600	150	8	0.094	2.03	2.64	1.32	0.45	6.46	2.44	2.80	11.71
Grain Drill	24'	MFWD 190	56,700	150	8	0.078	1.69	2.45	1.67	0.41	6.23	3.07	2.49	11.81
Grain Drill	30'	MFWD 225	61,300	150	8	0.062	1.35	2.32	1.44	0.44	5.57	2.66	2.70	10.94
Grain Drill	35'	MFWD 225	86,100	150	8	0.053	1.16	1.99	1.73	0.38	5.28	3.20	2.31	10.80
Grain Drill & Pre	8'	2WD 130	29,100	150	8	0.253	5.48	5.43	2.77	0.76	14.45	5.10	4.43	23.99
Grain Drill & Pre	10'	2WD 130	31,800	150	8	0.203	4.38	4.34	2.42	0.61	11.76	4.46	3.55	19.78
Grain Drill & Pre	12'	2WD 130	28,700	150	8	0.169	3.65	3.62	1.82	0.50	9.61	3.35	2.95	15.92
Grain Drill & Pre	15'	MFWD 150	36,500	150	8	0.135	2.92	3.34	1.85	0.60	8.72	3.41	3.51	15.65
Grain Drill & Pre	20'	MFWD 170	43,500	150	8	0.101	2.19	2.84	1.65	0.49	7.18	3.05	3.01	13.25
Grain Drill & Pre	24'	MFWD 190	62,700	150	8	0.084	1.82	2.64	1.98	0.44	6.90	3.66	2.69	13.26
Grain Drill & Pre	30'	MFWD 225	68,700	150	8	0.067	1.46	2.50	1.74	0.47	6.19	3.21	2.91	12.32
Grain Drill & Pre	35'	MFWD 225	93,500	150	8	0.058	1.25	2.15	2.03	0.40	5.84	3.74	2.49	12.09
Grain Drill & Pre T	8R-38	MFWD 225	39,600	150	8	0.062	1.35	2.32	0.93	0.44	5.06	1.71	2.70	9.49
Harrow - Rigid	21'	2WD 150	6,330	200	10	0.073	0.92	1.82	0.16	0.29	3.21	0.23	1.70	5.15
Harrow - Folding	16'	MFWD 190	5,150	200	10	0.097	1.21	3.03	0.17	0.50	4.93	0.25	3.08	8.27
Harrow - Folding	24'	MFWD 190	12,000	200	10	0.064	0.81	2.02	0.27	0.33	3.44	0.39	2.05	5.90
Harrow - Folding	30'	MFWD 190	14,500	200	10	0.051	0.64	1.61	0.26	0.27	2.80	0.38	1.64	4.83
Harrow - Folding	40'	MFWD 190	17,800	200	10	0.038	0.48	1.21	0.24	0.20	2.14	0.35	1.23	3.73
Harrow - Folding	48'	MFWD 225	21,500	200	10	0.032	0.40	1.19	0.24	0.22	2.07	0.35	1.39	3.82
Harrow - Rigid	13'	2WD 130	4,360	200	10	0.119	1.49	2.55	0.18	0.35	4.59	0.26	2.08	6.95
Header - Corn	6R-30	265 hp	43,500	300	8	0.170	2.13	7.43	1.85	5.16	16.58	2.69	19.75	39.03
Header - Corn	6R-38	265 hp	44,700	300	8	0.134	1.68	5.86	1.50	4.07	13.13	2.18	15.59	30.91
Header - Corn	8R-30	265 hp	56,200	300	8	0.127	1.60	5.57	1.79	3.87	12.84	2.60	14.81	30.26
Header - Corn	8R-38	325 hp	57,600	300	8	0.100	1.26	5.40	1.45	3.41	11.54	2.11	13.08	26.73
Header - Corn	12R-20	325 hp	76,400	300	8	0.127	1.60	6.83	2.43	4.32	15.20	3.54	16.55	35.29
Header - Corn	12R-30	325 hp	87,700	300	8	0.085	1.06	4.55	1.86	2.88	10.37	2.71	11.03	24.12
Header - Draper (CL)	25' Rigid	265 hp	52,500	300	8	0.203	2.54	8.86	2.44	6.15	20.01	3.68	23.56	47.25
Header - Draper (CL)	30' Rigid	325 hp	59,800	300	8	0.169	2.12	9.05	2.31	5.72	19.23	3.49	21.93	44.65
Header - Draper (CL)	36' Rigid	355 hp	64,800	300	8	0.141	1.76	8.24	2.09	5.14	17.25	3.15	19.68	40.09
Header - Draper (SL)	25' Rigid	325 hp	52,500	300	8	0.176	2.20	9.42	2.11	5.95	19.70	3.19	22.80	45.70
Header - Draper (SL)	30' Rigid	325 hp	59,800	300	8	0.146	1.84	7.85	2.00	4.96	16.66	3.02	19.00	38.70
Header - Draper (SL)	36' Rigid	355 hp	64,800	300	8	0.122	1.53	7.14	1.81	4.45	14.95	2.73	17.05	34.74
Header - Rice (CL)	25' Rigid	325 hp	51,600	300	8	0.253	3.18	13.59	3.27	8.59	28.64	4.75	32.89	66.30
Header - Rice (CL)	30' Rigid	325 hp	59,000	300	8	0.211	2.65	11.32	3.12	7.16	24.26	4.53	27.41	56.20
Header - Rice (SL)	25' Rigid	325 hp	51,600	300	8	0.220	2.76	11.77	2.83	7.44	24.82	4.12	28.51	57.45
Header - Rice (SL)	30' Rigid	325 hp	59,000	300	8	0.183	2.30	9.81	2.70	6.20	21.02	3.92	23.75	48.71
Header -RiceStrp (CL)	20'	265 hp	47,200	300	8	0.253	3.18	11.08	2.99	7.69	24.95	4.35	29.45	58.76
Header -RiceStrp (CL)	24'	325 hp	51,800	300	8	0.211	2.65	11.32	2.73	7.16	23.88	3.98	27.41	55.27
Header -RiceStrp (CL)	32'	325 hp	57,200	300	8	0.158	1.99	8.49	2.26	5.37	18.12	3.29	20.56	41.98
Header -RiceStrp (SL)	20'	265 hp	47,200	300	8	0.220	2.76	9.60	2.59	6.66	21.62	3.77	25.52	50.92
Header -RiceStrp (SL)	24'	325 hp	51,800	300	8	0.183	2.30	9.81	2.37	6.20	20.69	3.44	23.75	47.90
Header -RiceStrp (SL)	32'	325 hp	57,200	300	8	0.137	1.72	7.36	1.96	4.65	15.70	2.85	17.81	36.38
Header -Soybean	22' Flex	265 hp	30,300	300	8	0.116	1.45	5.06	0.87	3.51	10.92	1.27	13.47	25.67
Header -Soybean	25' Flex	325 hp	32,700	300	8	0.102	1.28	5.46	0.83	3.45	11.04	1.21	13.24	25.50
Header -Soybean	30' Flex	325 hp	31,200	300	8	0.085	1.06	4.55	0.66	2.88	9.17	0.96	11.03	21.17
Header -Soybean	35' Flex	355 hp	43,500	300	8	0.072	0.91	4.26	0.79	2.66	8.63	1.15	10.18	19.97
Header Wheat/Sorghum	22' Rigid	265 hp	19,500	300	8	0.116	1.45	5.06	0.56	3.51	10.60	0.82	13.47	24.90
Header Wheat/Sorghum	25' Rigid	325 hp	27,300	300	8	0.102	1.28	5.46	0.69	3.45	10.90	1.01	13.24	25.16
Header Wheat/Sorghum	30' Rigid	325 hp	30,300	300	8	0.085	1.06	4.55	0.64	2.88	9.15	0.93	11.03	21.12
Header-Cotton Bcast	13'	173 hp	21,300	200	8	0.251	5.44	6.51	1.00	6.68	19.64	2.92	25.60	48.17
Header-Cotton-Bcast	16'	173 hp	23,800	200	8	0.204	4.42	5.29	0.91	5.43	16.06	2.65	20.80	39.51
Header-Cotton-Bcast	19'	173 hp	26,200	200	8	0.172	3.72	4.45	0.84	4.57	13.60	2.45	17.52	33.58
Header-Cotton-Brush	4R-30 2x1	173 hp	34,400	200	8	0.218	4.71	5.64	1.40	5.79	17.56	4.09	22.19	43.84
Header-Cotton-Brush	4R-36	173 hp	34,000	200	8	0.272	5.89	7.05	1.73	7.24	21.93	5.05	27.74	54.73
Header-Cotton-Brush	4R-38	173 hp	34,000	200	8	0.257	5.57	6.66	1.64	6.84	20.72	4.77	26.21	51.71
Header-Cotton-Brush	4R-38 2x1	173 hp	36,000	200	8	0.172	3.72	4.45	1.16	4.57	13.91	3.37	17.52	34.81
Header-Cotton-Brush	5R-30	173 hp	42,800	200	8	0.261	5.65	6.77	2.10	6.95	21.48	6.10	26.63	54.22
Header-Cotton-Brush	5R-38	173 hp	44,300	200	8	0.207	4.47	5.35	1.72	5.50	17.05	5.00	21.06	43.12
Header-Cotton-Brush	6R-30	173 hp	52,700	200	8	0.218	4.71	5.64	2.15	5.79	18.31	6.26	22.19	46.77
Header-Cotton-Brush	6R-38	173 hp	54,400	200	8	0.172	3.72	4.45	1.75	4.57	14.51	5.10	17.52	37.14
Header-Cotton-Brush	8R-30	173 hp	72,700	200	8	0.163	3.53	4.23	2.23	4.34	14.34	6.48	16.64	37.47
Header-Cotton-Brush	8R-36/38	173 hp	74,300	200	8	0.129	2.79	3.34	1.80	3.43	11.38	5.23	13.15	29.77
Land Plane	50'x16'	MFWD 190	12,300	200	10	0.151	1.90	4.74	0.37	0.79	7.81	0.95	4.82	13.58

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total	--Fixed--		Total
									Imp.	P.U.	Direct	Imp.	P.U.	Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Levee Pull & Seed	8 Blade	MFWD 170	10,200	100	10	0.003	0.04	0.09	0.00	0.01	0.16	0.03	0.10	0.31
Levee Pull (1m/80a)	8 blade	MFWD 170	7,120	100	10	0.003	0.04	0.09	0.00	0.01	0.16	0.02	0.10	0.29
Levee Splitter (1/80)	32"	MFWD 150	7,120	100	10	0.004	0.05	0.10	0.00	0.01	0.17	0.03	0.10	0.31
Module Builder	4R-30 (350)	MFWD 190	34,700	200	10	0.327	7.07	10.24	2.84	1.70	21.86	5.56	10.41	37.84
Module Builder	4R-38 (255)	MFWD 190	34,700	200	10	0.257	5.57	8.06	2.23	1.34	17.21	4.37	8.20	29.79
Module Builder	4R-38 (350)	MFWD 190	34,700	200	10	0.257	5.57	8.06	2.23	1.34	17.21	4.37	8.20	29.79
Module Builder	4R2x1 (350)	MFWD 190	34,700	200	10	0.172	3.72	5.39	1.49	0.89	11.51	2.92	5.48	19.91
Module Builder	6R-30 (355)	MFWD 190	34,700	200	10	0.218	4.71	6.83	1.89	1.13	14.57	3.70	6.94	25.22
Module Builder	6R-38 (355)	MFWD 190	34,700	200	10	0.172	3.72	5.39	1.49	0.89	11.51	2.92	5.48	19.91
Module Builder-Strip	13' Bcast	MFWD 150	34,700	200	10	0.251	5.44	6.22	2.18	1.12	14.97	4.27	6.54	25.79
Module Builder-Strip	16' Bcast	MFWD 150	34,700	200	10	0.204	4.42	5.05	1.77	0.91	12.16	3.47	5.31	20.95
Module Builder-Strip	19' Bcast	MFWD 150	34,700	200	10	0.172	3.72	4.25	1.49	0.77	10.24	2.92	4.47	17.64
Module Builder-Strip	4R-30 2x1	MFWD 150	34,700	200	10	0.218	4.71	5.39	1.89	0.97	12.97	3.70	5.66	22.35
Module Builder-Strip	4R-36	MFWD 150	34,700	200	10	0.272	5.89	6.74	2.36	1.21	16.22	4.63	7.08	27.94
Module Builder-Strip	4R-38	MFWD 150	34,700	200	10	0.257	5.57	6.36	2.23	1.15	15.32	4.37	6.69	26.40
Module Builder-Strip	4R-38 2x1	MFWD 150	34,700	200	10	0.172	3.72	4.25	1.49	0.77	10.24	2.92	4.47	17.64
Module Builder-Strip	5R-30	MFWD 150	34,700	200	10	0.261	5.65	6.47	2.27	1.17	15.57	4.44	6.80	26.82
Module Builder-Strip	5R-38	MFWD 150	34,700	200	10	0.207	4.47	5.11	1.79	0.92	12.32	3.51	5.38	21.22
Module Builder-Strip	6R-30	MFWD 150	34,700	200	10	0.218	4.71	5.39	1.89	0.97	12.97	3.70	5.66	22.35
Module Builder-Strip	6R-38	MFWD 190	34,700	200	10	0.172	3.72	5.39	1.49	0.89	11.51	2.92	5.48	19.91
Module Builder-Strip	8R-36/38	MFWD 190	34,700	200	10	0.129	2.79	4.04	1.12	0.67	8.64	2.19	4.11	14.95
NT Grain Drill	6'	MFWD 170	24,100	150	8	0.327	7.07	9.16	2.95	1.59	20.79	5.45	9.72	35.97
NT Grain Drill	10'	2WD 130	35,700	150	8	0.235	5.09	5.04	3.15	0.70	14.00	5.81	4.12	23.94
NT Grain Drill	12'	2WD 130	42,000	150	8	0.163	3.53	3.50	2.57	0.49	10.11	4.74	2.86	17.72
NT Grain Drill	15'	MFWD 150	48,800	150	8	0.130	2.82	3.23	2.39	0.58	9.04	4.41	3.40	16.86
NT Grain Drill	20'	MFWD 170	64,400	150	8	0.098	2.12	2.74	2.37	0.47	7.72	4.36	2.91	15.01
NT Grain Drill	24'	MFWD 190	79,200	150	8	0.081	1.76	2.56	2.43	0.42	7.18	4.47	2.60	14.27
NT Grain Drill	30'	MFWD 225	90,600	150	8	0.065	1.41	2.42	2.22	0.46	6.52	4.09	2.81	13.44
NT Grain Drill & Pre	6'	MFWD 170	30,000	150	8	0.352	7.61	9.87	3.96	1.71	23.17	7.30	10.47	40.96
NT Grain Drill & Pre	10'	2WD 130	41,600	150	8	0.211	4.57	4.52	3.30	0.63	13.03	6.07	3.69	22.81
NT Grain Drill & Pre	12'	2WD 130	47,900	150	8	0.176	3.80	3.77	3.16	0.53	11.28	5.83	3.08	20.19
NT Grain Drill & Pre	15'	MFWD 150	54,800	150	8	0.141	3.04	3.48	2.89	0.63	10.06	5.33	3.66	19.06
NT Grain Drill & Pre	20'	MFWD 170	70,400	150	8	0.105	2.28	2.96	2.79	0.51	8.55	5.14	3.14	16.84
NT Grain Drill & Pre	24'	MFWD 190	85,200	150	8	0.088	1.90	2.75	2.81	0.45	7.93	5.18	2.80	15.93
NT Grain Drill & Pre	30'	MFWD 225	98,000	150	8	0.070	1.52	2.61	2.59	0.49	7.22	4.77	3.03	15.03
NT Plant&Pre-Folding	8R-38	MFWD 170	48,000	150	8	0.083	1.80	2.34	1.50	0.40	6.06	2.77	2.48	11.31
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	80,800	150	8	0.055	1.20	1.55	1.68	0.27	4.72	3.10	1.65	9.48
NT Plant&Pre-Folding	12R-20	MFWD 190	70,200	150	8	0.105	2.28	3.31	2.78	0.55	8.93	5.12	3.36	17.42
NT Plant&Pre-Folding	12R-30	MFWD 190	72,000	150	8	0.070	1.52	2.20	1.90	0.36	6.00	3.50	2.24	11.75
NT Plant&Pre-Folding	12R-38	MFWD 190	80,800	150	8	0.055	1.20	1.74	1.68	0.29	4.92	3.10	1.77	9.80
NT Plant&Pre-Folding	16R-30	MFWD 190	101,000	150	8	0.052	1.14	1.65	2.00	0.27	5.07	3.69	1.68	10.44
NT Plant&Pre-Folding	23R-15	MFWD 190	129,000	150	8	0.073	1.58	2.29	3.55	0.38	7.82	6.54	2.33	16.70
NT Plant&Pre-Folding	24R-15	MFWD 225	133,000	150	8	0.070	1.52	2.61	3.51	0.49	8.15	6.47	3.03	17.66
NT Plant&Pre-Folding	24R-20	MFWD 190	143,000	150	8	0.052	1.14	1.65	2.83	0.27	5.90	5.22	1.68	12.81
NT Plant&Pre-Folding	24R-30	MFWD 190	188,000	150	8	0.035	0.76	1.10	2.48	0.18	4.53	4.57	1.12	10.23
NT Plant&Pre-Folding	31R-15	MFWD 225	147,000	150	8	0.054	1.18	2.02	3.01	0.38	6.60	5.55	2.35	14.51
NT Plant&Pre-Folding	32R-15	MFWD 225	163,000	150	8	0.052	1.14	1.95	3.23	0.37	6.70	5.95	2.27	14.93
NT Plant&Pre-Rigid	4R-30	2WD 130	26,600	150	8	0.211	4.57	4.52	2.11	0.63	11.84	3.88	3.69	19.43
NT Plant&Pre-Rigid	4R-38	2WD 130	28,800	150	8	0.166	3.59	3.56	1.79	0.50	9.46	3.31	2.91	15.69
NT Plant&Pre-Rigid	6R-30	MFWD 150	36,900	150	8	0.141	3.04	3.48	1.95	0.63	9.11	3.59	3.66	16.37
NT Plant&Pre-Rigid	6R-38	MFWD 150	33,100	150	8	0.111	2.40	2.75	1.38	0.49	7.03	2.54	2.89	12.47
NT Plant&Pre-Rigid	8R-30	MFWD 170	42,200	150	8	0.105	2.28	2.96	1.67	0.51	7.43	3.08	3.14	13.66
NT Plant&Pre-Rigid	8R-38	MFWD 170	39,800	150	8	0.083	1.80	2.34	1.24	0.40	5.80	2.29	2.48	10.58
NT Plant&Pre-Rigid	10R-30	MFWD 190	46,300	150	8	0.084	1.82	2.64	1.46	0.44	6.38	2.70	2.69	11.78
NT Plant&Pre-Rigid	11R-15	MFWD 170	49,900	150	8	0.143	3.10	4.02	2.69	0.70	10.53	4.96	4.27	19.77
NT Plant&Pre-Rigid	11R-20	MFWD 170	45,500	150	8	0.115	2.49	3.23	1.97	0.56	8.27	3.63	3.43	15.33
NT Plant&Pre-Rigid	12R-20	MFWD 190	52,100	150	8	0.105	2.28	3.31	2.06	0.55	8.21	3.80	3.36	15.38
NT Plant&Pre-Rigid	12R-30	MFWD 190	64,700	150	8	0.070	1.52	2.20	1.71	0.36	5.80	3.15	2.24	11.20
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	55,800	150	8	0.097	2.10	3.61	2.03	0.68	8.44	3.75	4.19	16.40
NT Plant&Pre-Rigid	15R-15	MFWD 190	61,400	150	8	0.113	2.44	3.54	2.60	0.59	9.17	4.79	3.59	17.57
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	140,000	150	8	0.055	1.20	2.06	2.92	0.39	6.58	5.38	2.39	14.36
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	120,000	150	8	0.083	1.80	3.09	3.76	0.59	9.25	6.93	3.59	19.78
NT Plant-Folding	8R-38	MFWD 170	42,100	150	8	0.077	1.67	2.17	1.22	0.37	5.45	2.25	2.30	10.02
NT Plant-Folding	8R-38 2x1	MFWD 170	73,500	150	8	0.051	1.11	1.44	1.42	0.25	4.24	2.62	1.53	8.40
NT Plant-Folding	12R-20	MFWD 190	64,200	150	8	0.098	2.12	3.07	2.36	0.51	8.07	4.35	3.12	15.55
NT Plant-Folding	12R-30	MFWD 190	64,600	150	8	0.065	1.41	2.04	1.58	0.34	5.39	2.92	2.08	10.39
NT Plant-Folding	12R-38	MFWD 190	63,500	150	8	0.051	1.11	1.61	1.23	0.26	4.23	2.26	1.64	8.14
NT Plant-Folding	16R-30	MFWD 190	93,200	150	8	0.049	1.06	1.53	1.71	0.25	4.57	3.16	1.56	9.29
NT Plant-Folding	23R-15	MFWD 190	122,000	150	8	0.068	1.47	2.13	3.12	0.35	7.08	5.74	2.16	15.00
NT Plant-Folding	24R-15	MFWD 225	126,000	150	8	0.065	1.41	2.42	3.09	0.46	7.39	5.70	2.81	15.91
NT Plant-Folding	24R-20	MFWD 190	136,000	150	8	0.049	1.06	1.53	2.50	0.25	5.35	4.61	1.56	11.53
NT Plant-Folding	24R-30	MFWD 190	178,000	150	8	0.032	0.70	1.02	2.18	0.17	4.08	4.02	1.04	9.15
NT Plant-Folding	31R-15	MFWD 225	140,000	150	8	0.050	1.09	1.88	2.66	0.35	6.00	4.90	2.18	13.09
NT Plant-Folding	32R-15	MFWD 225	155,000	150	8	0.049	1.06	1.82	2.85	0.34	6.08	5.25	2.11	13.45
NT Plant-Rigid	4R-30	2WD 130	20,600	150	8	0.196	4.24	4.20	1.51	0.59	10.55	2.79	3.43	16.79
NT Plant-Rigid	4R-38	2WD 130	22,900	150	8	0.154	3.34	3.31	1.32	0.46	8.44	2.44	2.70	13.60
NT Plant-Rigid	6R-30	MFWD 150	31,000	150	8	0.130	2.82	3.23	1.52	0.58	8.17	2.80	3.40	14.37

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (continued)

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---	Total	---Fixed---	Total		
			Price	Use	Life	Rate		Imp.	P.U.	Direct	Imp.	P.U.	Cost	
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant-Rigid	6R-38	MFWD 150	27,100	150	8	0.103	2.23	2.55	1.05	0.46	6.30	1.93	2.68	10.92
NT Plant-Rigid	8R-30	MFWD 170	36,300	150	8	0.098	2.12	2.74	1.33	0.47	6.68	2.46	2.91	12.06
NT Plant-Rigid	8R-38	MFWD 170	33,800	150	8	0.077	1.67	2.17	0.98	0.37	5.21	1.81	2.30	9.33
NT Plant-Rigid	10R-30	MFWD 190	40,300	150	8	0.078	1.69	2.45	1.18	0.41	5.75	2.18	2.49	10.44
NT Plant-Rigid	11R-15	MFWD 170	43,900	150	8	0.133	2.88	3.74	2.19	0.65	9.48	4.05	3.97	17.50
NT Plant-Rigid	11R-20	MFWD 170	39,600	150	8	0.107	2.31	3.00	1.59	0.52	7.44	2.93	3.18	13.56
NT Plant-Rigid	12R-20	MFWD 190	46,200	150	8	0.098	2.12	3.07	1.70	0.51	7.40	3.13	3.12	13.66
NT Plant-Rigid	12R-30	MFWD 190	56,800	150	8	0.065	1.41	2.04	1.39	0.34	5.20	2.56	2.08	9.85
NT Plant-Rigid	13R-18/20	MFWD 225	49,800	150	8	0.090	1.96	3.37	1.69	0.64	7.67	3.12	3.91	14.72
NT Plant-Rigid	15R-15	MFWD 190	54,400	150	8	0.105	2.26	3.28	2.14	0.54	8.24	3.94	3.34	15.53
NT Plant-TwinRow	12R-30/40	MFWD 225	130,000	150	8	0.051	1.11	1.91	2.51	0.36	5.91	4.64	2.22	12.78
NT Plant-TwinRow	8R-30/40	MFWD 225	114,000	150	8	0.077	1.67	2.87	3.31	0.54	8.42	6.11	3.34	17.88
One-Trip Prep	4R-38	MFWD 170	21,200	150	10	0.146	1.84	4.10	1.45	0.71	8.11	2.11	4.36	14.59
One-Trip Prep	6R-38	MFWD 190	26,900	150	10	0.097	1.22	3.04	1.22	0.50	5.99	1.77	3.09	10.86
One-Trip Prep	8R-38	MFWD 225	31,700	150	10	0.073	0.92	2.74	1.09	0.52	5.28	1.59	3.18	10.06
Peanut Cond. & Lifter	6-Row	MFWD 190	12,600	300	20	0.100	1.25	3.12	0.21	0.52	5.11	0.29	3.18	8.59
Peanut Conditioner	6-Row	MFWD 190	14,400	300	20	0.100	1.25	3.12	0.28	0.52	5.19	0.29	3.18	8.66
Peanut Dig/Invertor	4R-30	MFWD 190	26,100	300	15	0.235	2.95	7.38	1.53	1.23	13.10	1.76	7.50	22.36
Peanut Dig/Invertor	4R-38	MFWD 190	26,100	300	15	0.186	2.33	5.82	1.20	0.97	10.34	1.39	5.92	17.66
Peanut Dig/Invertor	6R-38	MFWD 190	38,400	300	15	0.124	1.55	3.88	0.83	0.64	6.92	1.36	3.94	12.23
Peanut Dump Cart	6-Row	MFWD 190	45,500	300	20	0.310	3.89	9.70	0.82	1.61	16.03	3.16	9.86	29.05
Peanut Harvester	4R-30	MFWD 225	121,000	300	20	0.849	10.66	31.50	5.82	6.00	53.99	20.89	36.59	111.48
Peanut Harvester	4R-38	MFWD 225	121,000	300	20	0.934	11.72	34.63	6.40	6.60	59.37	24.17	40.23	123.78
Peanut Harvester	6R-38	MFWD 225	138,000	300	20	0.625	7.84	23.16	4.16	4.41	39.58	18.43	26.90	84.93
Peanut Lifter	6-Row	MFWD 225	6,090	300	20	0.100	1.25	3.70	0.12	0.70	5.79	0.12	4.30	10.22
Peanut Plt&Pre Fold.	12R-38	MFWD 190	77,600	150	8	0.080	1.73	2.51	2.33	0.41	7.01	4.31	2.55	13.88
Peanut Plt&Pre Rigid	8R-30	MFWD 190	40,100	150	8	0.152	3.30	4.78	2.29	0.79	11.17	4.23	4.86	20.27
Peanut Plt&Pre Rigid	8R-38	MFWD 190	37,600	150	8	0.120	2.60	3.77	1.70	0.63	8.72	3.13	3.84	15.70
Pipe Spool 160ac	1/4m roll	2WD 130	3,380	15	12	0.003	0.09	0.06	0.00	0.00	0.17	0.06	0.05	0.29
Pipe Trailer 1m/160a	30'	2WD 130	1,330	100	15	0.003	0.18	0.08	0.00	0.01	0.27	0.00	0.06	0.34
Plant & Pre-Folding	8R-38	MFWD 170	45,900	150	8	0.080	1.73	2.24	1.38	0.39	5.75	2.54	2.38	10.68
Plant & Pre-Folding	8R-38 2x1	MFWD 170	77,600	150	8	0.053	1.15	1.49	1.55	0.26	4.46	2.86	1.58	8.92
Plant & Pre-Folding	12R-20	MFWD 190	66,900	150	8	0.101	2.19	3.17	2.54	0.52	8.44	4.69	3.23	16.37
Plant & Pre-Folding	12R-30	MFWD 190	68,700	150	8	0.067	1.46	2.11	1.74	0.35	5.67	3.21	2.15	11.04
Plant & Pre-Folding	12R-38	MFWD 190	77,600	150	8	0.053	1.15	1.67	1.55	0.27	4.66	2.86	1.70	9.22
Plant & Pre-Folding	16R-30	MFWD 190	96,200	150	8	0.050	1.09	1.58	1.83	0.26	4.78	3.37	1.61	9.77
Plant & Pre-Folding	23R-15	MFWD 190	123,000	150	8	0.070	1.52	2.20	3.25	0.36	7.35	5.99	2.24	15.58
Plant & Pre-Folding	24R-15	MFWD 225	126,000	150	8	0.067	1.46	2.50	3.19	0.47	7.64	5.89	2.91	16.45
Plant & Pre-Folding	24R-20	MFWD 190	137,000	150	8	0.050	1.09	1.58	2.60	0.26	5.55	4.80	1.61	11.97
Plant & Pre-Folding	24R-30	MFWD 190	182,000	150	8	0.033	0.73	1.05	2.31	0.17	4.27	4.25	1.07	9.61
Plant & Pre-Folding	31R-15	MFWD 225	139,000	150	8	0.052	1.13	1.94	2.73	0.37	6.18	5.03	2.25	13.48
Plant & Pre-Folding	32R-15	MFWD 225	154,000	150	8	0.050	1.09	1.88	2.93	0.35	6.26	5.40	2.18	13.85
Plant & Pre-Rigid	4R-30	2WD 130	25,500	150	8	0.203	4.38	4.34	1.94	0.61	11.29	3.57	3.55	18.41
Plant & Pre-Rigid	4R-38	2WD 130	27,700	150	8	0.159	3.45	3.42	1.66	0.48	9.02	3.06	2.79	14.87
Plant & Pre-Rigid	6R-30	MFWD 150	35,300	150	8	0.135	2.92	3.34	1.79	0.60	8.66	3.30	3.51	15.48
Plant & Pre-Rigid	6R-38	MFWD 150	31,400	150	8	0.106	2.30	2.64	1.25	0.47	6.68	2.31	2.77	11.78
Plant & Pre-Rigid	8R-30	MFWD 170	40,100	150	8	0.101	2.19	2.84	1.52	0.49	7.05	2.81	3.01	12.89
Plant & Pre-Rigid	8R-38	MFWD 170	37,600	150	8	0.080	1.73	2.24	1.13	0.39	5.50	2.08	2.38	9.97
Plant & Pre-Rigid	10R-30	MFWD 190	43,600	150	8	0.081	1.75	2.54	1.32	0.42	6.04	2.44	2.58	11.08
Plant & Pre-Rigid	11R-15	MFWD 170	46,900	150	8	0.148	3.20	4.15	2.60	0.72	10.68	4.80	4.40	19.89
Plant & Pre-Rigid	11R-20	MFWD 170	42,500	150	8	0.110	2.39	3.10	1.76	0.54	7.81	3.25	3.29	14.37
Plant & Pre-Rigid	12R-20	MFWD 190	48,900	150	8	0.101	2.19	3.17	1.86	0.52	7.76	3.43	3.23	14.42
Plant & Pre-Rigid	12R-30	MFWD 190	61,400	150	8	0.067	1.46	2.11	1.55	0.35	5.49	2.87	2.15	10.51
Plant & Pre-Rigid	13R-18/20	MFWD 225	52,200	150	8	0.093	2.02	3.46	1.83	0.66	7.98	3.37	4.02	15.38
Plant & Pre-Rigid	15R-15	MFWD 190	57,300	150	8	0.108	2.34	3.39	2.33	0.56	8.64	4.29	3.45	16.39
Plant & Pre-TwinRow	12R-30/40	MFWD 225	133,000	150	8	0.053	1.15	1.98	2.66	0.37	6.17	4.91	2.30	13.38
Plant & Pre-TwinRow	8R-30/40	MFWD 225	116,000	150	8	0.080	1.73	2.97	3.49	0.56	8.76	6.43	3.45	18.65
Plant - Folding	8R-38	MFWD 170	39,900	150	8	0.074	1.61	2.08	1.11	0.36	5.17	2.05	2.21	9.44
Plant - Folding	8R-38 2x1	MFWD 170	70,200	150	8	0.049	1.07	1.38	1.30	0.24	4.00	2.40	1.47	7.89
Plant - Folding	12R-20	MFWD 190	61,000	150	8	0.094	2.03	2.95	2.15	0.49	7.63	3.97	2.99	14.61
Plant - Folding	12R-30	MFWD 190	61,400	150	8	0.062	1.35	1.96	1.44	0.32	5.10	2.66	1.99	9.76
Plant - Folding	12R-38	MFWD 190	70,200	150	8	0.049	1.07	1.55	1.30	0.25	4.19	2.40	1.57	8.17
Plant - Folding	16R-30	MFWD 190	88,900	150	8	0.047	1.01	1.47	1.57	0.24	4.31	2.89	1.49	8.70
Plant - Folding	23R-15	MFWD 190	116,000	150	8	0.065	1.41	2.04	2.84	0.34	6.65	5.24	2.08	13.98
Plant - Folding	24R-15	MFWD 225	119,000	150	8	0.062	1.35	2.32	2.80	0.44	6.93	5.16	2.70	14.81
Plant - Folding	24R-20	MFWD 190	129,000	150	8	0.047	1.01	1.47	2.28	0.24	5.02	4.20	1.49	10.72
Plant - Folding	24R-30	MFWD 190	172,000	150	8	0.031	0.67	0.98	2.02	0.16	3.85	3.73	0.99	8.58
Plant - Folding	31R-15	MFWD 225	132,000	150	8	0.048	1.05	1.80	2.41	0.34	5.61	4.44	2.09	12.15
Plant - Folding	32R-15	MFWD 225	147,000	150	8	0.047	1.01	1.74	2.59	0.33	5.69	4.78	2.02	12.51
Plant - Rigid	4R-30	2WD 130	19,600	150	8	0.188	4.07	4.03	1.38	0.56	10.06	2.55	3.29	15.91
Plant - Rigid	4R-38	2WD 130	21,800	150	8	0.148	3.20	3.17	1.21	0.44	8.04	2.23	2.59	12.88
Plant - Rigid	6R-30	MFWD 150	29,300	150	8	0.125	2.71	3.10	1.38	0.56	7.76	2.54	3.26	13.57
Plant - Rigid	6R-38	MFWD 150	25,500	150	8	0.099	2.14	2.45	0.94	0.44	5.98	1.74	2.57	10.31
Plant - Rigid	8R-30	MFWD 170	34,100	150	8	0.094	2.03	2.64	1.20	0.45	6.34	2.22	2.80	11.36
Plant - Rigid	8R-38	MFWD 170	31,700	150	8	0.074	1.61	2.08	0.88	0.36	4.94	1.63	2.21	8.79
Plant - Rigid	10R-30	MFWD 190	37,600	150	8	0.075	1.63	2.36	1.06	0.39	5.44	1.95	2.39	9.80

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (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.	
-----\$/acre-----														
Plant - Rigid	11R-15	MFWD 170	41,000	150	8	0.137	2.97	3.85	2.11	0.67	9.61	3.89	4.09	17.60
Plant - Rigid	11R-20	MFWD 170	36,600	150	8	0.103	2.22	2.88	1.41	0.50	7.02	2.60	3.06	12.69
Plant - Rigid	12R-20	MFWD 190	42,900	150	8	0.094	2.03	2.95	1.51	0.49	6.99	2.79	2.99	12.79
Plant - Rigid	12R-30	MFWD 190	54,100	150	8	0.062	1.35	1.96	1.27	0.32	4.92	2.34	1.99	9.27
Plant - Rigid	13R-18/20	MFWD 225	46,300	150	8	0.086	1.87	3.22	1.50	0.61	7.22	2.77	3.74	13.74
Plant - Rigid	15R-15	2WD 150	51,400	150	8	0.094	2.03	2.32	1.81	0.37	6.55	3.34	2.17	12.08
Plant - TwinRow	12R-30/40	MFWD 225	123,000	150	8	0.049	1.07	1.83	2.28	0.35	5.55	4.21	2.13	11.90
Plant - TwinRow	8R-30/40	MFWD 225	110,000	150	8	0.074	1.61	2.76	3.07	0.52	7.97	5.66	3.20	16.84
Plant - TwinRow	8R-30/40	MFWD 225	103,000	150	8	0.074	1.60	2.84	2.87	0.50	7.84	5.30	3.09	16.24
Spray (Spot)	60'	MFWD 225	10,400	200	8	0.028	0.48	1.07	0.13	0.19	1.88	0.15	1.17	3.21
Stalk Shredder	14'	MFWD 150	13,000	200	10	0.117	1.47	3.00	1.34	0.50	6.32	0.78	2.93	10.03
Stalk Shredder Flex	20'	MFWD 150	34,700	200	10	0.082	1.03	2.10	2.50	0.35	5.99	1.45	2.05	9.50
Stalk Shredder-Flail	12'	MFWD 150	15,800	200	10	0.137	1.71	3.50	1.90	0.58	7.71	1.10	3.42	12.24
Stalk Shredder-Flail	15'	MFWD 150	19,500	200	10	0.110	1.37	2.80	1.87	0.47	6.52	1.09	2.73	10.35
Stalk Shredder-Flail	18'	MFWD 150	25,300	200	10	0.091	1.14	2.33	2.02	0.39	5.90	1.18	2.28	9.36
Stalk Shredder-Flail	20'	MFWD 150	26,300	200	10	0.082	1.03	2.10	1.89	0.35	5.38	1.10	2.05	8.54
Stalk Shredder-Flail	25'	MFWD 150	37,600	200	10	0.066	0.82	1.68	2.17	0.28	4.96	1.26	1.64	7.86
Strip Till	8R38/12R30	MFWD 225	42,100	150	10	0.061	0.77	2.35	1.12	0.41	4.66	1.76	2.55	8.99
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.55	6.59	0.24	1.02	10.41	0.57	6.22	17.21
Subsoiler	4 shank	MFWD 225	8,050	100	15	0.153	1.92	5.87	0.41	1.04	9.25	0.97	6.37	16.60
Roller/Cultipacker	12'	2WD 130	4,130	300	12	0.124	1.56	2.66	0.12	0.37	4.72	0.16	2.17	7.05
Roller/Cultipacker	20'	MFWD 150	16,200	300	12	0.074	0.93	1.84	0.28	0.33	3.40	0.37	1.93	5.71
Roller/Cultipacker	30'	MFWD 170	18,100	300	12	0.049	0.62	1.39	0.21	0.24	2.47	0.28	1.47	4.23
Roller/Cultipacker	38'	MFWD 225	19,600	300	12	0.039	0.49	1.45	0.18	0.27	2.40	0.24	1.69	4.34
Roller/Stubble	20'	2WD 50	13,200	300	12	0.074	0.93	0.61	0.23	0.04	1.82	0.30	0.25	2.39
Roller/Stubble	32'	MFWD 225	22,400	300	12	0.046	0.58	1.72	0.24	0.32	2.89	0.32	2.00	5.22
Rotary Cutter	7'	MFWD 130	4,380	185	10	0.168	2.11	3.60	0.59	0.59	6.91	0.40	3.48	10.80
Rotary Cutter	12'	2WD 150	12,600	185	10	0.098	1.23	2.42	1.00	0.38	5.05	0.68	2.26	7.99
Rotary Cutter-Flex	15'	MFWD 150	19,500	185	10	0.078	0.98	1.94	1.24	0.35	4.52	0.84	2.04	7.40
Rotary Cutter-Flex	20'	MFWD 150	27,000	185	10	0.058	0.73	1.45	1.29	0.26	3.74	0.87	1.53	6.15
Row Cond & Inc-Fold.	26'	MFWD 190	24,700	100	10	0.063	1.08	1.98	0.39	0.33	3.79	1.59	2.01	7.41
Row Cond & Inc-Fold.	38'	MFWD 225	35,300	100	10	0.043	0.74	1.60	0.38	0.30	3.04	1.56	1.86	6.47
Row Cond & Inc-Rigid	13'	2WD 130	13,300	100	10	0.126	2.16	2.71	0.42	0.38	5.68	1.72	2.21	9.63
Row Cond & Inc-Rigid	21'	2WD 170	19,700	100	10	0.078	1.34	2.20	0.38	0.29	4.22	1.57	1.78	7.58
Row Cond & Inc-Rigid	26'	MFWD 190	18,700	100	10	0.026	0.45	0.83	0.12	0.13	1.55	0.50	0.84	2.90
Row Cond Folding	26'	MFWD 225	18,800	100	10	0.059	0.74	2.21	0.28	0.42	3.66	1.14	2.57	7.38
Row Cond Folding	38'	MFWD 225	28,000	100	10	0.040	0.51	1.51	0.28	0.28	2.60	1.16	1.75	5.52
Row Cond Rigid	13'	2WD 130	7,300	100	10	0.119	1.49	2.55	0.21	0.35	4.63	0.88	2.08	7.61
Row Cond Rigid	21'	2WD 170	12,000	100	10	0.073	0.92	2.07	0.22	0.27	3.49	0.90	1.67	6.07
Row Cond Rigid	26'	MFWD 190	12,800	100	10	0.059	0.74	1.86	0.19	0.31	3.12	0.77	1.90	5.80
Row Cond./Roll-Fold.	26'	MFWD 190	33,500	160	10	0.072	0.90	2.25	0.60	0.37	4.14	1.53	2.29	7.97
Row Cond./Roll-Fold.	30'	MFWD 190	36,100	160	10	0.062	0.78	1.95	0.56	0.32	3.63	1.43	1.98	7.05
Row Cond./Roll-Fold.	40'	MFWD 225	44,800	160	10	0.046	0.58	1.73	0.52	0.33	3.18	1.33	2.01	6.53
Row Cond./Roll-Rigid	21'	MFWD 190	23,900	160	10	0.089	1.12	2.79	0.53	0.46	4.91	1.35	2.84	9.11
Row Cond./Roll-Rigid	26'	MFWD 190	27,200	160	10	0.072	0.90	2.25	0.49	0.37	4.02	1.25	2.29	7.57
Spin Spreader	5 ton	MFWD 190	10,800	100	8	0.042	0.90	1.31	0.25	0.21	2.70	0.49	1.33	4.53
Spray (ATV Ropewick)	75"	800 CC	620	200	8	0.260	4.44	0.61	0.07	0.26	5.40	0.08	1.01	6.50
Spray (ATV)	12'/17'	800 CC	430	200	8	0.112	1.92	0.26	0.02	0.11	2.33	0.02	0.43	2.79
Spray (ATV)	20'	800 CC	1,350	200	8	0.084	1.44	0.20	0.05	0.08	1.78	0.06	0.32	2.17
Spray (Band)	27' Fold	MFWD 170	5,940	200	8	0.062	1.07	1.75	0.17	0.30	3.30	0.20	1.86	5.37
Spray (Band)	40' Fold	MFWD 170	7,350	200	8	0.042	0.72	1.18	0.14	0.20	2.25	0.16	1.25	3.68
Spray (Band)	50' Fold	MFWD 170	6,730	200	8	0.033	0.57	0.94	0.10	0.16	1.79	0.12	1.00	2.92
Spray (Band)	53' Fold	MFWD 170	7,650	200	8	0.031	0.54	0.89	0.11	0.15	1.70	0.13	0.94	2.79
Spray (Band)	60' Fold	MFWD 170	10,000	200	8	0.028	0.48	0.78	0.13	0.13	1.54	0.15	0.83	2.53
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,810	200	8	0.130	2.22	3.21	0.35	0.58	6.37	0.41	3.38	10.16
Spray (Bcast/HB)	20' Rigid	MFWD 150	6,840	200	8	0.084	1.44	2.09	0.27	0.37	4.18	0.31	2.19	6.69
Spray (Bcast/HB)	27' Fold	MFWD 170	11,300	200	8	0.062	1.07	1.75	0.33	0.30	3.46	0.38	1.86	5.71
Spray (Bcast/HB)	27' Rigid	MFWD 170	7,870	200	8	0.062	1.07	1.75	0.23	0.30	3.36	0.26	1.86	5.49
Spray (Bcast/HB)	30' Fold	MFWD 170	19,200	200	8	0.056	0.96	1.57	0.50	0.27	3.32	0.59	1.67	5.59
Spray (Bcast/HB)	40' Fold	MFWD 170	20,500	200	8	0.042	0.72	1.18	0.40	0.20	2.52	0.47	1.25	4.25
Spray (Bcast/HB/HD)	27'	MFWD 170	22,400	200	8	0.062	1.07	1.75	0.65	0.30	3.78	0.76	1.86	6.41
Spray (Bcast/HB/HD)	40'	MFWD 170	32,200	200	8	0.042	0.72	1.18	0.63	0.20	2.75	0.74	1.25	4.75
Spray (Broadcast)	27'	MFWD 170	5,940	200	8	0.062	1.07	1.75	0.17	0.30	3.30	0.20	1.86	5.37
Spray (Broadcast)	40'	MFWD 170	7,350	200	8	0.042	0.72	1.18	0.14	0.20	2.25	0.16	1.25	3.68
Spray (Broadcast)	50'	MFWD 170	6,730	200	8	0.033	0.57	0.94	0.10	0.16	1.79	0.12	1.00	2.92
Spray (Broadcast)	53'	MFWD 170	7,650	200	8	0.031	0.54	0.89	0.11	0.15	1.70	0.13	0.94	2.79
Spray (Broadcast)	60'	MFWD 170	10,000	200	8	0.028	0.48	0.78	0.13	0.13	1.54	0.15	0.83	2.53
Spray (Direct/Hood)	8R-30	MFWD 170	17,700	200	8	0.084	1.44	2.36	0.70	0.41	4.92	0.81	2.51	8.26
Spray (Direct/Hood)	8R-38	MFWD 170	18,900	200	8	0.066	1.14	1.87	0.59	0.32	3.93	0.68	1.98	6.61
Spray (Direct/Hood)	12R-30	MFWD 170	25,600	200	8	0.056	0.96	1.57	0.67	0.27	3.49	0.78	1.67	5.95
Spray (Direct/Hood)	12R-38	MFWD 170	26,200	200	8	0.044	0.76	1.24	0.54	0.21	2.77	0.63	1.32	4.73
Spray (Direct/Layby)	8R-38	MFWD 170	12,200	200	8	0.066	1.14	1.87	0.38	0.32	3.72	0.44	1.98	6.15
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	16,200	200	8	0.044	0.76	1.24	0.33	0.21	2.56	0.39	1.32	4.27
Spray (Direct/Layby)	12R-30	MFWD 170	17,900	200	8	0.056	0.96	1.57	0.47	0.27	3.29	0.55	1.67	5.51
Spray (Direct/Layby)	12R-38	MFWD 170	16,200	200	8	0.044	0.76	1.24	0.33	0.21	2.56	0.39	1.32	4.27
Spray (Direct/Layby)	16R-20	2WD 50	10,000	200	8	0.062	1.07	0.51	0.29	0.03	1.91	0.34	0.21	2.47

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (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 (Levee Leaper)	50'	MFWD 225	14,000	200	8	0.033	0.57	1.25	0.22	0.23	2.29	0.25	1.45	4.00
Spray (Pull Type)	60'	MFWD 225	29,700	200	8	0.028	0.48	1.04	0.39	0.19	2.11	0.45	1.21	3.79
Spray (Pull Type)	80'	MFWD 225	39,400	200	8	0.021	0.36	0.78	0.39	0.14	1.68	0.45	0.91	3.04
Spray (Pull Type)	90'	2WD 50	39,900	200	8	0.018	0.32	0.15	0.35	0.01	0.83	0.40	0.06	1.31
Spray (Pull Type)	120'	MFWD 225	72,900	200	8	0.014	0.24	0.52	0.48	0.09	1.34	0.56	0.60	2.51
Spray (Ropewick)	20'	MFWD 190	2,650	200	8	0.084	1.44	2.64	0.10	0.44	4.64	0.12	2.69	7.45
Spray (Spot)	27'	MFWD 170	5,940	200	8	0.062	1.07	1.75	0.17	0.30	3.30	0.20	1.86	5.37
Spray (Spot)	40'	MFWD 170	7,350	200	8	0.042	0.72	1.18	0.14	0.20	2.25	0.16	1.25	3.68
Spray (Spot)	50'	MFWD 170	67,300	200	8	0.033	0.57	0.94	1.06	0.16	2.75	1.24	1.00	5.00
Spray (Spot)	53'	MFWD 170	7,650	200	8	0.031	0.54	0.89	0.11	0.15	1.70	0.13	0.94	2.79
Spray (Spot)	60'	MFWD 225	10,000	200	8	0.028	0.48	1.04	0.13	0.19	1.85	0.15	1.21	3.22
Stalk Shredder	14'	MFWD 150	13,200	200	10	0.117	1.47	2.91	1.36	0.52	6.27	0.79	3.06	10.13
Stalk Shredder Flex	20'	MFWD 150	34,000	200	10	0.082	1.03	2.03	2.45	0.36	5.89	1.43	2.14	9.46
Stalk Shredder-Flail	12'	MFWD 150	15,800	200	10	0.137	1.72	3.39	1.90	0.61	7.63	1.10	3.57	12.31
Stalk Shredder-Flail	15'	MFWD 150	19,900	200	10	0.110	1.38	2.71	1.91	0.49	6.50	1.11	2.85	10.47
Stalk Shredder-Flail	18'	MFWD 150	25,700	200	10	0.091	1.15	2.26	2.06	0.40	5.88	1.20	2.38	9.46
Stalk Shredder-Flail	20'	MFWD 150	26,900	200	10	0.082	1.03	2.03	1.94	0.36	5.38	1.13	2.14	8.65
Stalk Shredder-Flail	25'	MFWD 150	37,700	200	10	0.066	0.82	1.63	2.17	0.29	4.93	1.26	1.71	7.91
Strip Till	8R-38	MFWD 225	38,600	150	10	0.061	0.77	2.28	1.03	0.43	4.52	1.61	2.65	8.79
Strip Till	12R-30	MFWD 225	47,500	150	10	0.061	0.77	2.28	1.26	0.43	4.76	1.98	2.65	9.40
Strip Till	12R-40	MFWD 225	54,100	150	10	0.046	0.58	1.71	1.08	0.32	3.70	1.69	1.98	7.39
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.56	6.39	0.24	1.06	10.26	0.57	6.50	17.33
Subsoiler	4 shank	MFWD 225	8,230	100	15	0.153	1.92	5.69	0.42	1.08	9.12	0.99	6.61	16.73
Subsoiler	5 shank	MFWD 225	11,100	100	15	0.122	1.53	4.53	0.45	0.86	7.38	1.06	5.26	13.72
Subsoiler low-till	4 shank	MFWD 225	12,400	100	15	0.153	1.92	5.69	0.63	1.08	9.34	1.49	6.61	17.45
Subsoiler low-till	6 shank	MFWD 225	14,800	100	15	0.102	1.28	3.78	0.50	0.72	6.29	1.18	4.39	11.88
Subsoiler low-till	8 shank	MFWD 225	22,200	100	15	0.076	0.96	2.83	0.56	0.54	4.90	1.33	3.29	9.53

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, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			CruiserMaxx	oz	4.15
Crop Oil Conc.(Pet.)	pt	3.60	Dithane F-45	qt	7.94
Crop Oil Conc.(Veg.)	pt	4.60	Dithane Rainshield	lb	2.75
Drift/Defoamer	pt	4.90	Enable 2F	oz	1.94
Spreader Sticker	pt	3.55	Folicur 3.6	oz	1.08
Surfactant	pt	3.60	Headline EC	oz	3.62
CLEANING			Headline SC	oz	3.53
Cleaning Peanuts	ton	18.00	Manzate 75 DF	lb	4.83
CROP CONSULTANT			Moncut 70 DF	lb	25.00
Crop Consultant	acre	7.00	Prevail	lb	28.50
Rice Consultant	acre	7.00	Prosaro	oz	2.77
CUSTOM FERTILIZE			Provost	oz	2.46
App Fert by Air	cwt	6.50	Quadris	oz	2.86
App Fert by Air(Mi)	appl	6.50	Quilt	pt	22.34
Custom Apply Fert	acre	6.50	Quilt XCEL	pt	30.41
CUSTOM LIME			Ridomil Gold	oz	6.54
Lime (Spread)	ton	45.00	Ridomil Gold PC GR	lb	4.00
CUSTOM PLANT			Rovral 4F	pt	14.20
Custom Plant	acre	13.00	Stiletto	oz	0.58
Custom Plant Air	cwt	6.50	Stratego	pt	24.91
CUSTOM SPRAY			Stratego YLD	oz	4.91
App by Air (2 gal)	appl	3.25	Tebuconazole	oz	0.78
App by Air (3 gal)	appl	4.75	Terrachlor 2EC	pt	1.87
App by Air (5 gal)	appl	6.00	Tilt 3.6 EC	oz	0.84
App by Air (10 gal)	appl	8.00	Tilt/ Bravo SE	oz	0.43
Custom Spray Ground	acre	7.50	Uniform	oz	5.12
Custom Spray Self Pr	acre	6.25	Vitavax RTU-Thiram	oz	0.40
Custom Spray Tractor	acre	7.75	GINNING		
DRYING			Gin & Haul	lb	0.11
Dry Corn	bu	0.19	GROWTH REGULATORS		
Dry Grain Sorghum	cwt	0.25	Early Harvest PGR	oz	1.55
Dry Peanuts	ton	24.00	Mepex	oz	0.09
Dry Rice	bu	0.40	Mepex Gin Out	oz	0.16
ERADICATION FEE			Mepichlor 4.2%	oz	0.11
Eradication	acre	1.00	Mepiquat	oz	0.90
FERTILIZERS			Mepiquat Extra	oz	0.10
Amm Sulfate (21% N)	cwt	18.60	Pentia	pt	5.89
Amm Sulfate dry/mix	lb	0.20	Pix Plus	oz	0.19
Boron 15G	lb	0.75	Stance	oz	1.22
Boron Plus	pt	4.25	SuperBoll	oz	2.57
DAP	cwt	29.00	HARVEST AIDS		
Fert 10-34-0	cwt	26.00	Adios	oz	1.38
Fert 11-37-0	cwt	28.00	Aim 2EC	oz	6.33
Fert 30-0-0-5	cwt	18.00	Ammonium Sulfate	lb	0.20
Fert 33-0-0-12S	cwt	23.75	CottonQuik	pt	4.52
Fert 41-0-0-4	cwt	23.50	Def 6	pt	8.25
Lime	ton	35.00	Def/Folex	pt	8.62
Phosphorus(46% P2O5)	cwt	24.50	Defol 3	gal	3.49
Potash (60% K2O)	cwt	23.60	Defol 5	gal	6.07
Sulfur 90%	lb	0.26	Defol 750	pt	2.04
Sulfur 90%	lb	0.26	Dropp SC	oz	1.60
Sulfur Plus	pt	2.60	ET	pt	47.26
SuperMax AMS	pt	2.70	Ethephon 6E	pt	3.27
UAN (32% N)	cwt	18.50	Finish 6	pt	8.59
UAN + Sulfur (28%)	cwt	17.90	First Pick	pt	3.55
Urea, Solid (46% N)	cwt	25.25	Flash	pt	6.34
Zinc Plus	pt	3.00	Folex 6EC	pt	8.99
Zinc Sulfate 31%	lb	0.50	Freefall SC	oz	1.34
FUNGICIDES			Ginstar EC	pt	27.89
Abound	pt	31.43	Gramoxone SL	oz	0.30
Alfa Guard	lb	1.61	Paraquat	oz	0.33
Allegiance Flowable	pt	55.63	Prep	pt	3.32
Apron Maxx RTA	oz	0.81	Sharpen	oz	5.63
Apron Maxx RTA+Moly	pt	14.74	Shed-a-leaf	gal	3.60
Apron XL LS	oz	7.93	Sodium Chlorate 3L	gal	3.50
Artisan	oz	1.02	Sodium Chlorate 5L	gal	5.57
Bravo Ultrex	lb	5.83	TDZ SC	oz	1.50
Bravo Weather Stick	pt	4.43	Thidiazuron 4lb	oz	1.50
Captan 50 WP	lb	6.00	Tribufos 6lb	pt	9.13
Cotton Seed Trt.	acre	20.00	Vacate	oz	1.17

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
HAULING			Glyfos Xtra	pt	2.25
Haul Corn	bu	0.23	Glyphosate 3lbs a.e	pt	2.25
Haul Peanuts	ton	14.50	Glyphosate 3lbs a.e	oz	0.14
Haul Rice	bu	0.35	Glystar Plus	pt	2.25
Haul Sorghum	bu	0.25	Goal 2XL	pt	10.00
Haul Soybeans	bu	0.27	Gramonone SL 2.0	oz	0.32
Haul Wheat	bu	0.26	Grandstand R	qt	28.38
HERBICIDES			Guardman Max	pt	6.93
2,4-D Amine 4	pt	2.44	Halex GT	pt	5.96
2,4-D Weedar 64	pt	3.00	Halomax	oz	19.00
AAtrex 4L	pt	2.08	Harmony Extra SG	oz	12.84
AAtrex NINE-O	lb	3.93	Harmony Extra XP	oz	14.35
Accent Q	oz	32.47	Harness XTRA	pt	7.24
Aim 2EC	oz	6.33	Hoelon 3EC	pt	11.03
Assure II	oz	0.74	Ignite 280	pt	8.93
Atrazine 4L	pt	1.93	Impact	oz	11.67
Atrazine 90DF	lb	3.93	Karmex XP	lb	5.93
Axial XL	oz	1.05	Lariat	qt	7.49
Axiom 68DF	oz	1.86	Laudis	oz	5.43
Banvel	pt	11.10	Layby Pro	qt	14.18
Basagran	pt	11.88	Leadoff	oz	4.00
Basis	oz	17.91	Lexar	pt	7.08
Beyond	oz	4.29	Liberty 280	oz	0.66
Bicep II Magnum	qt	10.97	Linex 4L	pt	12.12
Bicep Lite Magnum	pt	7.24	Londax 60DF	oz	17.25
Blazer Ultra	pt	9.56	Lorox 50DF	lb	18.70
Bolero 8EC	pt	7.50	Makaze	pt	1.88
Boundary 6.5 EC	pt	10.05	Metribuzin 75	lb	10.75
Buccaneer Plus	pt	2.19	MSMA 6.6	pt	3.50
Bullet	pt	3.73	MSMA6 Plus	pt	3.21
Butyrac 175 (2,4-D)	pt	3.27	Newpath 2SL	oz	3.47
Butyrac 200 (2,4-DB)	pt	4.20	Osprey	oz	3.08
Cadre	oz	4.01	Outlook	pt	16.88
Callisto 4SC	oz	5.68	Paraquat	oz	0.33
Canopy 75%	oz	2.69	Parazone 3SL	oz	0.32
Canopy EX	oz	7.63	Parrlay	pt	8.13
Caparol 4L	pt	3.69	Parrot 4L	pt	2.95
Capreno	oz	6.48	Peak Accu Pak	oz	15.45
Celebrity Plus	lb	84.50	Permit 75 DF	oz	19.73
Clarity	pt	11.88	Poast 1.53	pt	11.95
Classic	oz	16.28	Poast Plus	pt	8.66
Clearpath	lb	55.06	PowerFlex	pt	10.39
Clincher SF	oz	2.30	Prefix	pt	6.26
Cobra 2EC	oz	1.61	Propimax EC	pt	15.81
Command 3ME	pt	19.06	Prowl 3.3 EC	pt	5.63
Cornerstone Plus	pt	1.56	Prowl H20	pt	5.95
Corvus	oz	6.46	Pursuit 2S	oz	3.25
Cotoran 4L	pt	5.98	Python WDG	oz	13.04
Cotton Pro	pt	3.50	Quinstar	lb	45.94
Credit Extra	pt	2.10	Raptor	oz	4.18
Dicamba	pt	11.41	RealmQ	oz	4.75
Direx 4L	pt	4.44	Reflex 2LC	pt	7.04
Diuron 4L	pt	4.19	Regiment 80WP	oz	41.38
Diuron 80 DF	lb	2.70	Remedy Ultra	pt	8.60
Diuron 80%	lb	2.70	Resolve SG	oz	7.95
Dual II Magnum	pt	14.50	Resource .86EC	pt	28.75
Dual Magnum	pt	13.49	Ricebeaux	pt	5.40
Duet	pt	4.99	RicePro	pt	4.87
Envoke	oz	93.50	Riceshot	pt	3.81
Evik DF 80W	lb	11.75	Ricestar HT	pt	22.55
Exceed	oz	10.71	Rifel	pt	8.24
Expert	pt	4.27	Roundup Power Max	oz	0.21
Facet L	pt	10.36	Roundup PowerMax	pt	3.25
Finesse	oz	8.06	Roundup WeatherMax	oz	0.27
First Rate	oz	38.78	Roundup WeatherMax	pt	4.07
Flexstar	pt	10.68	Salvo	pt	5.13
Frontier 6.0	oz	0.63	Scepter 70 DG	oz	4.52
Fultime	pt	5.25	Select Max	pt	12.32
Fusilade DX	oz	1.14	Sequence	pt	5.96

(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Sharpen	oz	5.68	Imidan 70 WSB	oz	0.68
Simazine 4L	pt	3.17	Incidental Pest Trt	acre	12.00
Stalwart	pt	7.44	Intrepid 2F	oz	2.00
Stam 80 EDF	lb	8.04	Intruder 70WSP	oz	9.65
Stam M4	qt	7.75	Karate Z	oz	2.85
Staple LX	oz	8.55	Kelthane MF 4EC	pt	5.00
Steadfast	oz	11.85	Lambda	oz	1.10
Sterling Blue	pt	9.81	Lannate LV	pt	10.34
Storm	pt	11.50	Lannate SP	oz	1.93
Strada WG	oz	6.50	Larvin 3.2	oz	0.63
Strongarm	oz	51.20	Leverage 2.7	oz	1.66
Superwham	qt	8.83	Lorsban 15G	lb	3.59
Suprend	lb	12.92	Lorsban 4E	pt	5.63
Surpass EC	qt	26.25	Macho	oz	0.91
Synchrony XP	oz	12.07	Malathion 5E	pt	4.99
Touchdown Total	qt	6.74	Malathion 8E	pt	5.60
Treflan 4D	pt	3.40	Methyl Parathion 4	pt	5.79
Tricor DF	lb	15.28	Monitor 4	pt	16.50
Trifluralin 4EC	pt	3.34	Montana	oz	0.91
Valor SX	oz	6.15	Mustang Max	oz	1.60
Valor XLT	oz	4.69	Nuprid 4F	oz	1.15
Verdict	oz	1.65	Oberon 4 SC	pt	76.00
Zidua	oz	7.80	Orthene 90S	lb	6.55
Zorial Rapid 80DF	lb	14.10	PennCap-M	pt	6.71
INOCULANT			Pounce 25WP	lb	12.85
Nitrastick S	lbseed	0.02	Prolex	oz	2.62
Nitro Fix	lbseed	0.03	Provoke	oz	1.75
Optimize LIFT	oz	0.54	Radiant	oz	6.20
INSECT SCOUTING			Respect .8EC	pt	34.00
Insect Scouting	acre	7.00	Sevin 4F	pt	6.00
INSECTICIDES			Sevin 80S	lb	7.40
Abamectin .15EC	pt	12.50	Sevin XLR Plus	qt	12.50
Acephate 90%	lb	6.88	Sniper	oz	1.05
Acephate 90SP	lb	7.23	Steward	pt	30.12
Acramite-4SC	oz	1.88	Temik 15G Grit	lb	4.00
Asana .66 XL	oz	0.64	Temik 15G Gypsum	lb	4.00
Aztec 2.1% G	lb	3.68	Thimet 20-G Lock N L	lb	3.60
Baythroid XL	oz	2.40	Thionex 3 EC	pt	4.65
Bidrin 8WM	oz	1.04	Thionex 50W	lb	10.45
Bidrin XP	oz	0.80	Tombstone Helios	pt	43.75
Bifenthrin	oz	0.95	Tracer 4SC	oz	9.73
Bifenture 2EC	pt	14.69	Trimax Pro	oz	1.85
Brigade EC	pt	21.01	Tundra	oz	0.78
Brigade WSB	lb	22.20	Vydate C-LV	oz	0.89
Capture LFR	oz	2.40	Phorate	lb	3.00
Carbaryl 4L	pt	5.35	Zeal Miticid I	oz	15.89
Carbine 50WG	oz	5.25	Zephyr	oz	0.85
Centric 40WG	oz	4.83	IRRIGATION SUPPLIES		
Comite 1l	pt	8.46	Roll-Out Pipe	ft	0.26
Confirm 2F	oz	2.05	SEED/PLANTS		
Counter 15G	lb	4.22	Corn Seed BtRR	thous	3.47
Cruiser Maxx Rice	lbseed	0.15	Corn Seed Conv.	thous	2.88
Curacron 8E	pt	10.75	Corn Seed LLRRBT	thous	3.43
Cypermethrin	oz	0.55	Corn Seed RR2	thous	3.08
Denim 0.16 EC	pt	32.63	Corn Seed VT3	thous	3.72
Diamond .83EC	pt	16.61	Corn Seed VT3Pro	thous	3.56
Dimethoate 4E	pt	6.27	Cotton Seed B2RF	thous	0.74
Dimilin 2L	oz	2.01	Cotton Seed LLB2	thous	1.19
Dipel DF	lb	13.50	Peanut Seed	lb	0.70
Dipel ES	pt	5.00	Rice Clearfield	lb	0.90
Discipline 2 EC	oz	0.86	Rice Clearfield Hyb	lb	6.12
Endigo ZC	pt	15.07	Rice Conv. Hybrid	lb	5.80
Epi-Mek	pt	15.66	Rice Seed (Levees)	lb	0.38
Fanfare 2EC	oz	0.88	Rice Seed CF(Levees)	lb	0.90
Force 3G	lb	6.73	Rice Seed CFH(Levee)	lb	6.12
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.38
Furadan 4FLFR	pt	9.81	Sorghum Concept	lb	2.28
Gaicho 600	oz	5.80	Soybean Seed LL	lb	1.12
Hero	pt	24.59	Soybean Seed RR2	lb	1.19
Holster	pt	14.38			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Wheat Seed Private	lb	0.32	B2RF Cot Tech Fee	thous	1.49
SURVEY & MARK LEVEES			B2RF Cot Tech Fee	cap/ac	62.69
Survey & Mark Levees	acre	4.50	LLB2 Cot Tech Fee	thous	0.76
Survey & Mark Levees	acre	4.50	RF Cot Tech Fee	thous	1.04
TECHNOLOGY FEE			RF Cot Tech Fee	cap/ac	43.66
B2 Cot Tech Fee	thous	0.76	WRF Cot Tech Fee	thous	1.45
B2 Cot Tech Fee	cap/ac	31.91	WS Cot Tech Fee	thous	0.41
			WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2015

ITEM NAME	UNIT	PRICE
		dollars
Diesel Fuel (DI) Price	(\$/gal):	3.20
Gasoline (GA) Price	(\$/gal):	3.40
LP Gas (LP) Price	(\$/gal):	2.30
Short-term Interest Rate	(%):	4.40
Intermediate-term Interest Rate	(%):	4.50

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2015

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.55
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, 2015

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '15	3.84420	-0.3411	3.50	2.1	3.50
Cotton Lint	lb	Dec '15	0.67240	-0.0310	0.641	0.52	0.64
Cottonseed	lb						0.113 ^f
Grain Sorghum	bu				3.34	2.02	3.34
Peanuts	ton				425.00	355.00	425.00
Soybeans	bu	Nov '15	9.86050	-0.2036	9.66	5.21	9.66
Rice	bu	Sep '15	5.83450	-0.2583	5.58	2.98	5.58
Wheat	bu	Jul '15	5.37180	-0.3954	4.98	2.65	4.98

^a Average of the daily closing futures contract prices during September 2014 for the stated contract months.

^b Basis is the mid-week Greenville, MS cash price minus the futures contract price for the stated contract month. The reported basis is an Olympic average from 2006 to 2013, which removes the highest and lowest within week basis value. All basis values are composed of the typical harvest timeframe for each crop according to USDA, NASS crop 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 price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

^d Average Mississippi loan rate for the 2014 crop year for soybeans, corn, grain sorghum, and wheat. 2014 National average Loan rate for cotton. 2014 Mississippi farm stored loan rate for long grain rice. 2014 national average loan rate for peanuts.

^e Price used in the 2015 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2010-2014.

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, 2015

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'		1.19	0.29	0.48			0.01	1.97	1.45	3.42
Set Up Engine											
IRRIGATE LABOR	hour				0.23			0.01	0.24		0.24
Ditcher (1m/160a)			0.20	0.05	0.12			0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58						0.16	8.74		8.74
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39			0.01	0.73	0.47	1.20
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		0.40	0.10	0.58			0.01	1.09	0.71	1.80
Land Forming (\$390)	each									30.35	30.35
Well & Pump, Furrow	each			2.44				0.04	2.48	6.85	9.33
Main Line Pipe	each									4.73	4.73
Engine, RPF, 75	each									7.74	7.74
June Irrigation	ac-in		9.12	1.26				0.19	10.57		10.57
July Irrigation	ac-in		9.12	1.26				0.15	10.53		10.53
August Irrigation	ac-in		9.12	1.26				0.11	10.49		10.49
TOTALS		8.58	29.42	6.72	4.30	0.00		0.73	49.75	52.48	102.23

Note: Cost of production estimates are based on 2014 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, 2015

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	43.18	54.62
Well & Pump, 1/4 CP	each			2.89			0.05	2.94	8.12	11.06
Engine, 1/4 CP, 65	each								9.17	9.17
June Irr. 3app@.75"	ac-in		10.75	1.34			0.22	12.31		12.31
July Irr. 4app@.75"	ac-in		14.34	1.79			0.24	16.37		16.37
Aug Irr. 3app@.75"	ac-in		10.75	1.34			0.13	12.22		12.22
TOTALS		0.00	35.84	18.59	1.84	0.00	0.88	57.15	60.47	117.62

Note: Cost of production estimates are based on 2014 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, 2015

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'		1.19	0.29	0.48			0.09	2.05	1.45	3.50
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.20	0.05	0.12			0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58						0.13	8.71		8.71
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39			0.01	0.73	0.47	1.20
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		0.40	0.10	0.58				1.08	0.71	1.79
Land Forming (\$390)	each									30.35	30.35
Well & Pump, Furrow	each			2.44				0.04	2.48	6.85	9.33
Main Line Pipe	each									4.73	4.73
Engine, RPF, ESB	each									7.74	7.74
1st June Irrigation	ac-in		7.82	1.26				0.13	9.21		9.21
2nd June Irrigation	ac-in		7.82	1.26				0.13	9.21		9.21
July Irrigation	ac-in		7.82	1.26				0.10	9.18		9.18
TOTALS		8.58	25.52	6.72	4.30	0.00		0.67	45.79	52.48	98.27

Note: Cost of production estimates are based on 2014 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, 2015

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		0.45	0.10	0.20			0.01	0.76	1.36
Survey & Mark Levees	acre	2.25						0.04	2.29	2.29
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27			0.02	1.02	1.82
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25			0.01	0.76	1.12
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21			0.01	0.72	1.22
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27			0.01	1.01	1.81
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25			0.01	0.76	1.12
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21			0.01	0.72	1.22
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27			0.01	1.01	1.81
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25			0.01	0.76	1.12
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21			0.01	0.72	1.22
Tear Down Levees										
Levee Splitter (1/80	32"		0.31	0.07	0.16				0.54	0.92
Land Forming (\$113)	each								7.62	7.62
Well & Pump, Flood	each			4.88				0.09	4.97	18.67
Engine, CF, 75	each								15.47	15.47
June Irrigation	ac-in		11.73	2.52				0.26	14.51	14.51
July Irrigation	ac-in		11.73	2.52				0.21	14.46	14.46
August Irrigation	ac-in		11.73	2.52				0.16	14.41	14.41
TOTALS		2.25	40.27	13.48	5.37	0.00	0.91	62.28	42.75	105.03

Note: Cost of production estimates are based on 2014 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, 2015

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	26.40
Well & Pump, 1/2 CP	each			0.95				0.02	0.97	2.67
Engine, 1/2 CP, 164	each									3.48
June Irr. 3app@.75"	ac-in		15.75	0.51				0.30	16.56	16.56
July Irr. 4app@.75"	ac-in		21.00	0.68				0.32	22.00	22.00
Aug Irr. 3app@.75"	ac-in		15.75	0.51				0.18	16.44	16.44
TOTALS		0.00	52.50	9.52	0.47	0.00	0.96		63.45	32.55

Note: Cost of production estimates are based on 2014 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, 2015

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	54.62
Well & Pump, 1/4 CP	each			2.89				0.05	2.94	11.06
Engine, 1/4 CP, 65	each								9.17	9.17
June Irr. 3app@.75"	ac-in		10.75	1.34				0.22	12.31	12.31
July Irr. 4app@.75"	ac-in		14.34	1.79				0.24	16.37	16.37
Aug Irr. 3app@.75"	ac-in		10.75	1.34				0.13	12.22	12.22
TOTALS		0.00	35.84	18.59	1.84	0.00	0.88		57.15	60.47

Note: Cost of production estimates are based on 2014 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, 2015

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'		1.19	0.29	0.48			0.09	2.05	1.45	3.50
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.20	0.05	0.12			0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58						0.13	8.71		8.71
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39			0.01	0.73	0.47	1.20
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		0.40	0.10	0.58			0.01	1.09	0.71	1.80
Land Forming (\$390)	each									30.35	30.35
Well & Pump, Furrow	each			2.44				0.04	2.48	6.85	9.33
Main Line Pipe	each									4.73	4.73
Engine, RPF, Corn	each									7.26	7.26
1st June Irrigation	ac-in		8.47	0.88				0.14	9.49		9.49
2nd June Irrigation	ac-in		8.47	0.88				0.14	9.49		9.49
3rd June Irrigation	ac-in		8.47	0.88				0.14	9.49		9.49
July Irrigation	ac-in		8.47	0.88				0.10	9.45		9.45
TOTALS		8.58	35.94	6.46	4.53	0.00		0.84	56.35	52.00	108.35

Note: Cost of production estimates are based on 2014 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, 2015

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		0.45	0.10	0.20		0.02	0.77	1.37	
Survey & Mark Levees	acre	4.50					0.10	4.60	4.60	
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.20	0.27	0.54		0.04	2.05	3.63	
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.02	0.77	1.13	
IRRIGATE LABOR	hour				0.68		0.01	0.69	0.69	
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		0.12	6.92	6.92	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.10	6.90	6.90	
Apply Water										
IRRIGATE LABOR	hour				6.80		0.07	6.87	6.87	
Remove Gates										
IRRIGATE LABOR	hour				0.91		0.01	0.92	0.92	
Tear Down Levees										
Levee Splitter (1/80)	32"		0.82	0.18	0.42		0.01	1.43	2.44	
Tear Down Levees										
Levee Splitter (1/80)	32"		0.31	0.07	0.16			0.54	0.92	
Land Forming (\$113)	each							7.62	7.62	
Levee Gates	each							0.54	0.54	
Well & Pump, Flood	each			4.88			0.09	4.97	18.67	
Engine, Rice CL, 75	each							15.47	15.47	
May Irrigation	ac-in		15.64	1.37			0.37	17.38	17.38	
June Irrigation	ac-in		23.46	2.06			0.47	25.99	25.99	
July Irrigation	ac-in		23.46	2.06			0.37	25.89	25.89	
August Irrigation	ac-in		23.46	2.06			0.28	25.80	25.80	
TOTALS		4.50	89.23	13.12	33.53	0.00	2.30	142.68	41.26	183.94

Note: Cost of production estimates are based on 2014 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, 2015

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
Survey & Mark Levees	acre	2.25					0.05	2.30	2.30
Build Inside Levees									
Levee Pull (1m/80a)	8 blade		0.90	0.21	0.40		0.03	1.54	1.19 2.73
Butt Levees									
Blade-Box	6'-7'		0.43	0.07	0.25		0.02	0.77	0.36 1.13
IRRIGATE LABOR	hour				0.68		0.01	0.69	0.69
Install Gates									
IRRIGATE LABOR	hour				1.36		0.03	1.39	1.39
Apply Water									
IRRIGATE LABOR	hour				4.53		0.10	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"		0.62	0.14	0.31		0.01	1.08	0.76 1.84
Land Forming (\$390)	each							30.35	30.35
Levee Gates	each							0.54	0.54
Well & Pump, Flood	each			4.88			0.09	4.97	13.70 18.67
Engine, Rice SL, 75	each							14.51	14.51
May Irrigation	ac-in		15.64	1.57			0.38	17.59	17.59
June Irrigation	ac-in		18.25	1.84			0.37	20.46	20.46
July Irrigation	ac-in		18.25	1.84			0.29	20.38	20.38
August Irrigation	ac-in		18.25	1.84			0.22	20.31	20.31
TOTALS		2.25	72.34	12.39	22.48	0.00	1.82	111.28	61.41 172.69

Note: Cost of production estimates are based on 2014 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, 2015

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		0.90	0.21	0.40		0.03	1.54	1.19	2.73
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.02	0.77	0.36	1.13
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Ditcher (1m/160a)			0.20	0.05	0.12		0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58					0.19	8.77		8.77
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39		0.02	0.74	0.47	1.21
Install Gates										
IRRIGATE LABOR	hour				1.36		0.03	1.39		1.39
Apply Water										
IRRIGATE LABOR	hour				1.81		0.04	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"		0.62	0.14	0.31		0.01	1.08	0.76	1.84
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.13	0.03	0.19			0.35	0.24	0.59
Land Forming (\$390)	each								30.35	30.35
Levee Gates	each								0.27	0.27
Well & Pump, Flood	each			4.88			0.09	4.97	13.70	18.67
Engine, Mult In Rice	each								15.47	15.47
May Irrigation	ac-in		13.03	1.57			0.32	14.92		14.92
June Irrigation	ac-in		15.64	1.89			0.32	17.85		17.85
July Irrigation	ac-in		15.64	1.89			0.26	17.79		17.79
August Irrigation	ac-in		15.64	1.89			0.19	17.72		17.72
TOTALS		10.83	62.50	12.68	11.84	0.00	1.68	99.53	62.99	162.52

Note: Cost of production estimates are based on 2014 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, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Apply Water										
IRRIGATE LABOR	hour				2.27			0.05	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			0.02	2.29	2.29
Land Forming (\$390)	each								30.35	30.35
Well & Pump, Flood	each			4.88				0.09	4.97	13.70
Engine, Rice SL, 75	each								14.51	14.51
May Irrigation	ac-in		10.43	1.05				0.25	11.73	11.73
June Irrigation	ac-in		13.03	1.31				0.26	14.60	14.60
July Irrigation	ac-in		13.03	1.31				0.21	14.55	14.55
August Irrigation	ac-in		13.03	1.31				0.16	14.50	14.50
TOTALS		0.00	49.52	9.86	9.53	0.00	1.12	70.03	58.56	128.59

Note: Cost of production estimates are based on 2014 input prices.

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