

**NON-DELTA
2013
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2012-08**

December 2012

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 2013 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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2013 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 2012. (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 operations.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2012 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 October. The basis is determined by subtracting the average daily cash price for the month of October from the average daily closing price of the 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

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 10.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.80	2.0000	3.60	_____
Ethephon 6E	pt	3.34	1.3300	4.44	_____
Tribufos 6lb	pt	8.42	0.5000	4.21	_____
GINNING					
Gin & Haul	lb	0.11	750.0000	82.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.1000	2.93	_____
Potash (60% K2O)	cwt	29.80	1.4000	41.72	_____
UAN (32% N)	cwt	21.10	3.6000	75.96	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.83	0.5000	5.42	_____
Glyphosate 3lbs a.e	oz	0.13	96.0000	12.48	_____
Gramonone SL 2.0	oz	0.25	32.0000	8.00	_____
Cotoran 4L	pt	6.12	2.0000	12.24	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
Diuron 4L	pt	3.85	1.6000	6.16	_____
INSECTICIDES					
Acephate 90%	lb	6.53	1.5200	9.93	_____
Centric 40WG	oz	4.46	2.0000	8.92	_____
Karate Z	oz	3.15	0.5000	1.58	_____
Bidrin 8WM	oz	1.01	2.0000	2.02	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.68	45.0000	30.60	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.15	24.0000	3.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	11.71	1.1134	13.04	_____
Self-Propelled	hour	11.71	0.4120	4.85	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.3349	3.04	_____
UNALLOCATED LABOR					
	hour	11.73	1.2203	14.32	_____
DIESEL FUEL					
Tractors	gal	3.50	10.8888	38.10	_____
Self-Propelled	gal	3.50	6.0322	21.15	_____
REPAIR & MAINTENANCE					
Implements	acre	10.12	1.0000	10.12	_____
Tractors	acre	5.36	1.0000	5.36	_____
Self-Propelled	acre	16.71	1.0000	16.71	_____
INTEREST ON OP. CAP.	acre	10.25	1.0000	10.25	_____
TOTAL DIRECT EXPENSES				607.41	_____
FIXED EXPENSES					
Implements	acre	16.98	1.0000	16.98	_____
Tractors	acre	34.29	1.0000	34.29	_____
Self-Propelled	acre	70.46	1.0000	70.46	_____
TOTAL FIXED EXPENSES				121.73	_____
TOTAL SPECIFIED EXPENSES				729.14	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	750.0000	557.25	_____
Cotton Seed	lb	0.10	1125.0000	115.88	_____

TOTAL INCOME				673.13	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	12.25	1.0000	12.25	_____
GINNING	acre	82.50	1.0000	82.50	_____
FERTILIZERS	acre	120.61	1.0000	120.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	57.84	1.0000	57.84	_____
INSECTICIDES	acre	34.45	1.0000	34.45	_____
SEED/PLANTS	acre	30.60	1.0000	30.60	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.60	1.0000	3.60	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	0.7840	7.11	_____
OPERATOR LABOR	hour	11.71	1.5254	17.89	_____
UNALLOCATED LABOR	hour	11.73	1.2203	14.32	_____
DIESEL FUEL	gal	3.50	16.9211	59.25	_____
REPAIR & MAINTENANCE	acre	32.19	1.0000	32.19	_____
INTEREST ON OP. CAP.	acre	10.25	1.0000	10.25	_____

TOTAL DIRECT EXPENSES				607.41	_____
RETURNS ABOVE DIRECT EXPENSES				65.72	_____

TOTAL FIXED EXPENSES				121.73	_____

TOTAL SPECIFIED EXPENSES				729.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-56.01	_____

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Table 10.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Non-Delta Area, Mississippi, 2013

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				
Phosphorus(46% P2O5)	cwt					0.1000				
Bed-Paratill	Fold	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.06
Sprayer	600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.01
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	0.02
Custom Apply Fert	acre				1.00	Mar				
Potash (60% K2O)	cwt					1.4000				
Fert Appl (Liquid)	8R-38	MFWD 190		0.077	1.00	Apr		0.07	0.07	0.11
UAN (32% N)	cwt					1.8000				0.06
Row Cond Rigid	26'	MFWD 190		0.059	1.00	May		0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190		0.080	1.00	May		0.08	0.08	0.16
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
Gramonone SL 2.0	oz					32.0000				0.01
Cotoran 4L	pt					2.0000				
Insect Scouting	acre				1.00	May				
Eradication	acre					1.0000				
Sprayer	600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02
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	Jun			0.01	0.02
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
UAN (32% N)	cwt					1.8000				0.06
Spray (Direct/Layby)	8R-38	MFWD 190		0.066	1.00	Jul		0.06	0.06	0.10
Diuron 4L	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer	600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02
Mepiquat Chloride	oz					12.0000				
Acephate 90%	lb					0.5500				
Sprayer	600-750gal	60' 175hp		0.017	0.25	Jul			0.00	0.00
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest					1.00	Jul				
Sprayer	600-750gal	60' 175hp		0.017					0.01	0.02
Incidental Pest Trt	acre					1.0000				
Sprayer	600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02
Acephate 90%	lb					0.7500				
Sprayer	600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer	600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)			0.257	1.00	Oct			0.25	0.51
Boll Buggy	4R-38(325)	MFWD 190		0.257	1.00	Oct		0.25	0.25	0.25
Module Builder	4R-38(325)	MFWD 190		0.257	1.00	Oct		0.25	0.25	0.51
Gin & Haul	lb				1.00	Oct	750.0000			
Stalk Shredder	14'	MFWD 190		0.117	1.00	Oct		0.11	0.11	0.11
TOTALS								1.52	1.11	2.30
										1.22

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Non-Delta Area, Mississippi, 2013

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						0.96	23.46	23.46
Phosphorus(46% P2O5)	cwt	2.93						0.12	3.05	3.05
Bed-Paratill Fold	8R-38		2.76	1.98	1.71			0.27	6.72	5.30 12.02
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.03	1.20	1.01 2.21
Clarity	pt	5.42						0.15	5.57	5.57
Glyphosate 3lbs a.e	oz	4.16						0.12	4.28	4.28
Bed-Disk (Hipper)Rd	8R-38		1.27	0.32	0.78			0.07	2.44	1.52 3.96
Custom Apply Fert	acre	7.00						0.20	7.20	7.20
Potash (60% K2O)	cwt	41.72						1.18	42.90	42.90
Fert Appl (Liquid)	8R-38		2.66	1.23	1.99			0.15	6.03	3.38 9.41
UAN (32% N)	cwt	37.98						0.94	38.92	38.92
Row Cond Rigid	26'		2.04	0.48	1.26			0.08	3.86	2.64 6.50
Plant & Pre-Rigid	8R-38		2.75	1.44	2.42			0.14	6.75	4.51 11.26
Cotton Seed B2RF	thous	30.60						0.65	31.25	31.25
B2RF Cot Tech Fee	thous	67.05						1.42	68.47	68.47
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Gramonone SL 2.0	oz	8.00						0.17	8.17	8.17
Cotoran 4L	pt	12.24						0.26	12.50	12.50
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		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Dual Magnum	pt	13.54						0.29	13.83	13.83
Glyphosate 3lbs a.e	oz	4.16						0.09	4.25	4.25
Acephate 90%	lb	1.44						0.03	1.47	1.47
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Centric 40WG	oz	8.92						0.16	9.08	9.08
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Fert Appl (Liquid)	8R-38		2.66	1.23	1.99			0.10	5.98	3.38 9.36
UAN (32% N)	cwt	37.98						0.67	38.65	38.65
Spray (Direct/Layby)	8R-38		2.29	0.71	1.71			0.07	4.78	2.53 7.31
Diuron 4L	pt	6.16						0.09	6.25	6.25
Glyphosate 3lbs a.e	oz	4.16						0.06	4.22	4.22
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Acephate 90%	lb	3.59						0.05	3.64	3.64
Sprayer 600-750gal	60' 175hp		0.14	0.04	0.11				0.29	0.25 0.54
Karate Z	oz	1.58						0.02	1.60	1.60
Bidrin 8WM	oz	2.02						0.03	2.05	2.05
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Acephate 90%	lb	4.90						0.05	4.95	4.95
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Thidiazuron 4lb	oz	3.60						0.03	3.63	3.63
Ethephon 6E	pt	4.44						0.03	4.47	4.47
Sprayer 600-750gal	60' 175hp		0.28	0.08	0.22				0.58	0.51 1.09
Tribufos 6lb	pt	4.21						0.03	4.24	4.24
Cotton Picker	4R-38(350)		16.25	15.39	7.77			0.14	39.55	61.62 101.17
Boll Buggy	4R-38(325)		8.82	2.93	5.43			0.06	17.24	11.44 28.68
Module Builder	4R-38(325)		8.82	3.26	7.77			0.07	19.92	12.12 32.04
Gin & Haul	lb	82.50						0.29	82.79	82.79
Stalk Shredder	14'		4.03	1.90	2.48			0.03	8.44	4.45 12.89
TOTALS		466.40	59.25	32.19	39.32	0.00	10.25	607.41	121.73	729.14

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
B2RF variety, Non-Delta Area, Mississippi, 2013

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	673.13
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.25	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	82.50
FERTILIZERS	2.93	0.00	0.00	0.00	41.72	37.98	0.00	37.98	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	9.58	0.00	37.94	0.00	10.32	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.44	8.92	19.19	4.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	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	1.80	1.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
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	1.71	0.00	0.00	0.00	1.24	1.99	4.60	2.45	2.74	0.46	0.68	23.45
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	2.76	0.00	0.00	0.00	1.83	2.66	5.91	3.22	3.55	0.56	0.84	37.92
REPAIR & MAINTENANCE	1.98	0.00	0.00	0.00	0.47	1.23	2.22	1.38	1.05	0.15	0.23	23.48
INTEREST ON OP. CAP.	1.35	0.00	0.00	0.00	1.75	1.09	3.77	0.98	0.56	0.06	0.10	0.59
TOTAL DIRECT EXPENSES	33.23	0.00	0.00	0.00	63.59	44.95	181.53	56.73	39.21	6.13	14.10	167.94
NET INCOME	-33.23	0.00	0.00	0.00	-63.59	-44.95	-181.53	-56.73	-39.21	-6.13	-14.10	505.19
NET INCOME TO DATE	-33.23	-33.23	-33.23	-33.23	-96.82	-141.77	-323.30	-380.03	-419.24	-425.37	-439.47	65.72

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B2RF variety, Non-Delta Area, Mississippi, 2013

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Cotton Lint	0.55	0.59	0.63	0.66	0.70	0.74	0.78	0.81	0.85	0.89	0.92			
PERCENT	YIELD	UNIT	dollars											
50	375.00	lb	-241 -362	-227 -348	-213 -335	-199 -321	-185 -307	-171 -293	-157 -279	-143 -265	-129 -251	-115 -237	-101 -223	
60	450.00	lb	-207 -329	-190 -312	-174 -295	-157 -279	-140 -262	-124 -245	-107 -229	-90 -212	-73 -195	-57 -178	-40 -162	
70	525.00	lb	-174 -295	-154 -276	-135 -256	-115 -237	-96 -217	-76 -198	-57 -178	-37 -159	-18 -139	1 -120	20 -100	
80	600.00	lb	-140 -262	-118 -240	-96 -217	-73 -195	-51 -173	-29 -150	-6 -128	15 -106	37 -84	59 -61	82 -39	
90	675.00	lb	-107 -228	-82 -203	-56 -178	-31 -153	-6 -128	18 -103	43 -78	68 -53	93 -28	118 -3	143 21	
100	750.00	lb	-73 -195	-45 -167	-17 -139	9 -111	37 -83	65 -56	93 -28	121 -0	149 27	177 55	205 83	
110	825.00	lb	-40 -161	-9 -131	21 -100	51 -69	82 -39	113 -8	143 22	174 52	205 83	235 114	266 144	
120	900.00	lb	-6 -128	26 -94	60 -61	93 -27	127 5	160 38	194 72	227 105	260 139	294 172	327 206	
130	975.00	lb	26 -94	63 -58	99 -22	135 13	171 50	208 86	244 122	280 158	316 194	352 231	389 267	
140	1050.00	lb	60 -61	99 -22	138 16	177 55	216 94	255 133	294 172	333 211	372 250	411 289	450 328	
150	1125.00	lb	93 -27	135 14	177 55	219 97	261 139	302 181	344 223	386 264	428 306	470 348	511 390	

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 2012 input prices.

Table 11.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
B2RF variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.80	2.0000	3.60	_____
Ethephon 6E	pt	3.34	1.3300	4.44	_____
Tribufos 6lb	pt	8.42	0.5000	4.21	_____
GINNING					
Gin & Haul	lb	0.11	750.0000	82.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.1000	2.93	_____
Amm Nitrate (34% N)	cwt	22.50	1.8000	40.50	_____
Potash (60% K2O)	cwt	29.80	1.4000	41.72	_____
UAN (32% N)	cwt	21.10	1.8000	37.98	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.83	0.5000	5.42	_____
Glyphosate 3lbs a.e	oz	0.13	96.0000	12.48	_____
Gramonone SL 2.0	oz	0.25	32.0000	8.00	_____
Cotoran 4L	pt	6.12	2.0000	12.24	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
Diuron 4L	pt	3.85	1.6000	6.16	_____
INSECTICIDES					
Acephate 90%	lb	6.53	1.5200	9.93	_____
Centric 40WG	oz	4.46	2.0000	8.92	_____
Karate Z	oz	3.15	0.5000	1.58	_____
Bidrin 8WM	oz	1.01	2.0000	2.02	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.68	45.0000	30.60	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.15	24.0000	3.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	11.71	0.9212	10.79	_____
Self-Propelled	hour	11.71	0.4120	4.85	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.3349	3.04	_____
UNALLOCATED LABOR	hour	11.72	1.0666	12.51	_____
DIESEL FUEL					
Tractors	gal	3.50	9.0100	31.52	_____
Self-Propelled	gal	3.50	6.0322	21.15	_____
REPAIR & MAINTENANCE					
Implements	acre	7.70	1.0000	7.70	_____
Tractors	acre	4.43	1.0000	4.43	_____
Self-Propelled	acre	16.71	1.0000	16.71	_____
INTEREST ON OP. CAP.	acre	10.02	1.0000	10.02	_____
TOTAL DIRECT EXPENSES				595.39	_____
FIXED EXPENSES					
Implements	acre	13.14	1.0000	13.14	_____
Tractors	acre	28.37	1.0000	28.37	_____
Self-Propelled	acre	70.46	1.0000	70.46	_____
TOTAL FIXED EXPENSES				111.97	_____
TOTAL SPECIFIED EXPENSES				707.36	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 11.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	750.0000	557.25	_____
Cotton Seed	lb	0.10	1125.0000	115.88	_____

TOTAL INCOME				673.13	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	12.25	1.0000	12.25	_____
GINNING	acre	82.50	1.0000	82.50	_____
FERTILIZERS	acre	123.13	1.0000	123.13	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	57.84	1.0000	57.84	_____
INSECTICIDES	acre	34.45	1.0000	34.45	_____
SEED/PLANTS	acre	30.60	1.0000	30.60	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	3.60	1.0000	3.60	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	0.7485	6.79	_____
OPERATOR LABOR	hour	11.71	1.3333	15.64	_____
UNALLOCATED LABOR	hour	11.72	1.0666	12.51	_____
DIESEL FUEL	gal	3.50	15.0423	52.67	_____
REPAIR & MAINTENANCE	acre	28.84	1.0000	28.84	_____
INTEREST ON OP. CAP.	acre	10.02	1.0000	10.02	_____

TOTAL DIRECT EXPENSES				595.39	_____
RETURNS ABOVE DIRECT EXPENSES				77.74	_____

TOTAL FIXED EXPENSES				111.97	_____

TOTAL SPECIFIED EXPENSES				707.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-34.23	_____

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Table 11.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Non-Delta Area, Mississippi, 2013

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				
Phosphorus(46% P2O5)	cwt					0.1000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
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					1.8000				
Potash (60% K2O)	cwt					1.4000				
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
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.2200				
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					1.8000				
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				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					12.0000				
Acephate 90%	lb					0.5500				
Sprayer 600-750gal	60' 175hp		0.017	0.25	Jul			0.00	0.00	0.00
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
Incidental Pest Trt	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
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(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	750.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.33	0.92	2.08	1.06

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 11.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, no-till
B2RF variety, Non-Delta Area, Mississippi, 2013

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						0.96	23.46	23.46
Phosphorus(46% P2O5)	cwt	2.93						0.12	3.05	3.05
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.03	1.20	1.01 2.21
Clarity	pt	5.42						0.15	5.57	5.57
Glyphosate 3lbs a.e	oz	4.16						0.12	4.28	4.28
Custom Apply Fert	acre	7.00						0.20	7.20	7.20
Amm Nitrate (34% N)	cwt	40.50						1.15	41.65	41.65
Potash (60% K2O)	cwt	41.72						1.18	42.90	42.90
Row Cond Rigid	26'		2.04	0.48	1.26			0.08	3.86	2.64 6.50
NT Plant&Pre-Rigid	8R-38		2.86	1.62	2.52			0.15	7.15	4.95 12.10
Cotton Seed B2RF	thous	30.60						0.65	31.25	31.25
B2RF Cot Tech Fee	thous	67.05						1.42	68.47	68.47
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Gramonone SL 2.0	oz	8.00						0.17	8.17	8.17
Cotoran 4L	pt	12.24						0.26	12.50	12.50
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		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Glyphosate 3lbs a.e	oz	4.16						0.09	4.25	4.25
Dual Magnum	pt	13.54						0.29	13.83	13.83
Acephate 90%	lb	1.44						0.03	1.47	1.47
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Centric 40WG	oz	8.92						0.16	9.08	9.08
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Fert Appl (Liquid)	8R-38		2.66	1.23	1.99			0.10	5.98	3.38 9.36
UAN (32% N)	cwt	37.98						0.67	38.65	38.65
Spray (Direct/Layby)	8R-38		2.29	0.71	1.71			0.08	4.79	2.53 7.32
Diuron 4L	pt	6.16						0.11	6.27	6.27
Glyphosate 3lbs a.e	oz	4.16						0.07	4.23	4.23
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Acephate 90%	lb	3.59						0.05	3.64	3.64
Sprayer 600-750gal	60' 175hp		0.14	0.04	0.11				0.29	0.25 0.54
Karate Z	oz	1.58						0.02	1.60	1.60
Bidrin 8WM	oz	2.02						0.03	2.05	2.05
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Acephate 90%	lb	4.90						0.05	4.95	4.95
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Thidiazuron 4lb	oz	3.60						0.03	3.63	3.63
Ethephon 6E	pt	4.44						0.03	4.47	4.47
Sprayer 600-750gal	60' 175hp		0.28	0.08	0.22				0.58	0.51 1.09
Tribufos 6lb	pt	4.21						0.03	4.24	4.24
Cotton Picker	4R-38(350)		16.25	15.39	7.77			0.14	39.55	61.62 101.17
Boll Buggy	4R-38(325)		8.82	2.93	5.43			0.06	17.24	11.44 28.68
Module Builder	4R-38(325)		8.82	3.26	7.77			0.07	19.92	12.12 32.04
Gin & Haul	lb	82.50						0.29	82.79	82.79
Stalk Shredder	14'		4.03	1.90	2.48			0.03	8.44	4.45 12.89
TOTALS			468.92	52.67	28.84	34.94	0.00	10.02	595.39	111.97 707.36

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 11.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Non-Delta Area, Mississippi, 2013

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	673.13
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.25	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	82.50
FERTILIZERS	2.93	0.00	0.00	0.00	82.22	0.00	0.00	37.98	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	9.58	0.00	37.94	10.32	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.44	8.92	19.19	4.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	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	1.80	1.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
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	0.46	0.00	4.70	4.16	1.03	0.46	0.68	23.45
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	0.00	0.00	0.00	0.00	0.56	0.00	6.02	5.51	1.26	0.56	0.84	37.92
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.15	0.00	2.40	2.09	0.34	0.15	0.23	23.48
INTEREST ON OP. CAP.	1.08	0.00	0.00	0.00	2.83	0.00	3.78	1.24	0.34	0.06	0.10	0.59
TOTAL DIRECT EXPENSES	26.51	0.00	0.00	0.00	102.80	0.00	181.93	72.02	23.96	6.13	14.10	167.94
NET INCOME	-26.51	0.00	0.00	0.00	-102.80	0.00	-181.93	-72.02	-23.96	-6.13	-14.10	505.19
NET INCOME TO DATE	-26.51	-26.51	-26.51	-26.51	-129.31	-129.31	-311.24	-383.26	-407.22	-413.35	-427.45	77.74

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B2RF variety, Non-Delta Area, Mississippi, 2013

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.63	0.66	0.70	0.74	0.78	0.81	0.85	0.89	0.92
PERCENT	YIELD	UNIT	dollars										
50	375.00	lb	-229 -341	-215 -327	-201 -313	-187 -299	-173 -285	-159 -271	-145 -257	-131 -243	-117 -229	-103 -215	-89 -201
60	450.00	lb	-195 -307	-178 -290	-162 -274	-145 -257	-128 -240	-112 -224	-95 -207	-78 -190	-61 -173	-45 -157	-28 -140
70	525.00	lb	-162 -274	-142 -254	-123 -235	-103 -215	-84 -196	-64 -176	-45 -157	-25 -137	-6 -118	13 -98	32 -79
80	600.00	lb	-128 -240	-106 -218	-84 -195	-61 -173	-39 -151	-17 -129	5 -106	27 -84	49 -62	72 -39	94 -17
90	675.00	lb	-95 -207	-70 -181	-44 -156	-19 -131	5 -106	30 -81	55 -56	80 -31	105 -6	130 18	155 43
100	750.00	lb	-61 -173	-33 -145	-5 -117	22 -89	49 -62	77 -34	105 -6	133 21	161 49	189 77	217 105
110	825.00	lb	-28 -140	2 -109	33 -78	63 -48	94 -17	125 13	155 43	186 74	217 105	247 135	278 166
120	900.00	lb	5 -106	38 -73	72 -39	105 -6	139 27	172 60	206 94	239 127	272 160	306 194	339 227
130	975.00	lb	38 -72	75 -36	111 -0	147 35	183 71	220 108	256 144	292 180	328 216	364 252	401 289
140	1050.00	lb	72 -39	111 -0	150 38	189 77	228 116	267 155	306 194	345 233	384 272	423 311	462 350
150	1125.00	lb	106 -5	147 35	189 77	231 119	273 161	314 203	356 244	398 286	440 328	482 370	523 411

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 2012 input prices.

Table 12.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
LLB2 variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.80	2.0000	3.60	_____
Ethephon 6E	pt	3.34	1.3300	4.44	_____
Tribufos 6lb	pt	8.42	0.5000	4.21	_____
GINNING					
Gin & Haul	lb	0.11	750.0000	82.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.1000	2.93	_____
Potash (60% K2O)	cwt	29.80	1.4000	41.72	_____
UAN (32% N)	cwt	21.10	3.6000	75.96	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.83	0.5000	5.42	_____
Glyphosate 3lbs a.e	oz	0.13	32.0000	4.16	_____
Gramonone SL 2.0	oz	0.25	32.0000	8.00	_____
Cotoran 4L	pt	6.12	2.0000	12.24	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
Liberty 280	oz	0.55	58.0000	31.90	_____
Valor SX	oz	5.55	2.0000	11.10	_____
MSMA 6.6	pt	2.79	2.7500	7.67	_____
INSECTICIDES					
Acephate 90%	lb	6.53	1.5200	9.93	_____
Centric 40WG	oz	4.46	2.0000	8.92	_____
Karate Z	oz	3.15	0.5000	1.58	_____
Bidrin 8WM	oz	1.01	2.0000	2.02	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed LLB2	thous	1.16	45.0000	52.20	_____
TECHNOLOGY FEE					
B2 Cot Tech Fee	thous	0.76	45.0000	34.20	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.15	24.0000	3.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	11.71	1.1134	13.04	_____
Self-Propelled	hour	11.71	0.4120	4.85	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.3349	3.04	_____
UNALLOCATED LABOR					
	hour	11.73	1.2203	14.32	_____
DIESEL FUEL					
Tractors	gal	3.50	10.8888	38.10	_____
Self-Propelled	gal	3.50	6.0322	21.15	_____
REPAIR & MAINTENANCE					
Implements	acre	10.12	1.0000	10.12	_____
Tractors	acre	5.36	1.0000	5.36	_____
Self-Propelled	acre	16.71	1.0000	16.71	_____
INTEREST ON OP. CAP.	acre	10.67	1.0000	10.67	_____
TOTAL DIRECT EXPENSES				632.77	_____
FIXED EXPENSES					
Implements	acre	16.98	1.0000	16.98	_____
Tractors	acre	34.29	1.0000	34.29	_____
Self-Propelled	acre	70.46	1.0000	70.46	_____
TOTAL FIXED EXPENSES				121.73	_____
TOTAL SPECIFIED EXPENSES				754.50	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 12.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	750.0000	557.25	_____
Cotton Seed	lb	0.10	1125.0000	115.88	_____

TOTAL INCOME				673.13	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	12.25	1.0000	12.25	_____
GINNING	acre	82.50	1.0000	82.50	_____
FERTILIZERS	acre	120.61	1.0000	120.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	94.03	1.0000	94.03	_____
INSECTICIDES	acre	34.45	1.0000	34.45	_____
SEED/PLANTS	acre	52.20	1.0000	52.20	_____
TECHNOLOGY FEE	acre	34.20	1.0000	34.20	_____
GROWTH REGULATORS	acre	3.60	1.0000	3.60	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	0.7840	7.11	_____
OPERATOR LABOR	hour	11.71	1.5254	17.89	_____
UNALLOCATED LABOR	hour	11.73	1.2203	14.32	_____
DIESEL FUEL	gal	3.50	16.9211	59.25	_____
REPAIR & MAINTENANCE	acre	32.19	1.0000	32.19	_____
INTEREST ON OP. CAP.	acre	10.67	1.0000	10.67	_____

TOTAL DIRECT EXPENSES				632.77	_____
RETURNS ABOVE DIRECT EXPENSES				40.36	_____

TOTAL FIXED EXPENSES				121.73	_____

TOTAL SPECIFIED EXPENSES				754.50	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-81.37	_____

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Table 12.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Non-Delta Area, Mississippi, 2013

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				
Phosphorus(46% P2O5)	cwt					0.1000				
Bed-Paratill Fold	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
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					1.4000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					1.8000				
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					1.8000				
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				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					12.0000				
Acephate 90%	lb					0.5500				
Sprayer 600-750gal	60' 175hp		0.017	0.25	Jul			0.00	0.00	0.00
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
Incidental Pest Trt	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
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(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	750.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.52	1.11	2.30	1.22

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 12.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Non-Delta Area, Mississippi, 2013

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						0.96	23.46	23.46
Phosphorus(46% P2O5)	cwt	2.93						0.12	3.05	3.05
Bed-Paratill Fold	8R-38		2.76	1.98	1.71			0.27	6.72	5.30 12.02
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.03	1.20	1.01 2.21
Clarity	pt	5.42						0.15	5.57	5.57
Glyphosate 3lbs a.e	oz	4.16						0.12	4.28	4.28
Bed-Disk (Hipper)Rd	8R-38		1.27	0.32	0.78			0.07	2.44	1.52 3.96
Custom Apply Fert	acre	7.00						0.20	7.20	7.20
Potash (60% K2O)	cwt	41.72						1.18	42.90	42.90
Fert Appl (Liquid)	8R-38		2.66	1.23	1.99			0.15	6.03	3.38 9.41
UAN (32% N)	cwt	37.98						0.94	38.92	38.92
Row Cond Rigid	26'		2.04	0.48	1.26			0.08	3.86	2.64 6.50
Plant & Pre-Rigid	8R-38		2.75	1.44	2.42			0.14	6.75	4.51 11.26
Cotton Seed LLB2	thous	52.20						1.11	53.31	53.31
B2 Cot Tech Fee	thous	34.20						0.73	34.93	34.93
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Gramonone SL 2.0	oz	8.00						0.17	8.17	8.17
Cotoran 4L	pt	12.24						0.26	12.50	12.50
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		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Dual Magnum	pt	13.54						0.29	13.83	13.83
Liberty 280	oz	15.95						0.34	16.29	16.29
Acephate 90%	lb	1.44						0.03	1.47	1.47
Fert Appl (Liquid)	8R-38		2.66	1.23	1.99			0.10	5.98	3.38 9.36
UAN (32% N)	cwt	37.98						0.67	38.65	38.65
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Centric 40WG	oz	8.92						0.16	9.08	9.08
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Liberty 280	oz	15.95						0.28	16.23	16.23
Spray (Direct/Layby)	8R-38		2.29	0.71	1.71			0.07	4.78	2.53 7.31
Valor SX	oz	11.10						0.16	11.26	11.26
MSMA 6.6	pt	7.67						0.11	7.78	7.78
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Mepiquat Chloride	oz	1.80						0.03	1.83	1.83
Acephate 90%	lb	3.59						0.05	3.64	3.64
Sprayer 600-750gal	60' 175hp		0.14	0.04	0.11				0.29	0.25 0.54
Karate Z	oz	1.58						0.02	1.60	1.60
Bidrin 8WM	oz	2.02						0.03	2.05	2.05
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.02	1.19	1.01 2.20
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Acephate 90%	lb	4.90						0.05	4.95	4.95
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.46			0.01	1.18	1.01 2.19
Thidiazuron 4lb	oz	3.60						0.03	3.63	3.63
Ethephon 6E	pt	4.44						0.03	4.47	4.47
Sprayer 600-750gal	60' 175hp		0.28	0.08	0.22				0.58	0.51 1.09
Tribufos 6lb	pt	4.21						0.03	4.24	4.24
Cotton Picker	4R-38(350)		16.25	15.39	7.77			0.14	39.55	61.62 101.17
Boll Buggy	4R-38(325)		8.82	2.93	5.43			0.06	17.24	11.44 28.68
Module Builder	4R-38(325)		8.82	3.26	7.77			0.07	19.92	12.12 32.04
Gin & Haul	lb	82.50						0.29	82.79	82.79
Stalk Shredder	14'		4.03	1.90	2.48			0.03	8.44	4.45 12.89
TOTALS		491.34	59.25	32.19	39.32	0.00	10.67	632.77	121.73	754.50

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Table 12.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Non-Delta Area, Mississippi, 2013

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	673.13
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.25	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	82.50
FERTILIZERS	2.93	0.00	0.00	0.00	41.72	37.98	0.00	37.98	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	9.58	0.00	49.73	15.95	18.77	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.44	8.92	19.19	4.90	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	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	1.80	1.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
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	1.71	0.00	0.00	0.00	1.24	1.99	4.60	2.45	2.74	0.46	0.68	23.45
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	2.76	0.00	0.00	0.00	1.83	2.66	5.91	3.22	3.55	0.56	0.84	37.92
REPAIR & MAINTENANCE	1.98	0.00	0.00	0.00	0.47	1.23	2.22	1.38	1.05	0.15	0.23	23.48
INTEREST ON OP. CAP.	1.35	0.00	0.00	0.00	1.75	1.09	3.79	1.26	0.68	0.06	0.10	0.59
TOTAL DIRECT EXPENSES	33.23	0.00	0.00	0.00	63.59	44.95	182.09	72.96	47.78	6.13	14.10	167.94
NET INCOME	-33.23	0.00	0.00	0.00	-63.59	-44.95	-182.09	-72.96	-47.78	-6.13	-14.10	505.19
NET INCOME TO DATE	-33.23	-33.23	-33.23	-33.23	-96.82	-141.77	-323.86	-396.82	-444.60	-450.73	-464.83	40.36

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 LLB2 variety, Non-Delta Area, Mississippi, 2013

PRODUCT			-----PERCENT-----										
			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.55	0.59	0.63	0.66	0.70	0.74	0.78	0.81	0.85	0.89	0.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	375.00	lb	-266 -388	-252 -374	-238 -360	-224 -346	-210 -332	-196 -318	-182 -304	-169 -290	-155 -276	-141 -262	-127 -248
60	450.00	lb	-233 -354	-216 -338	-199 -321	-182 -304	-166 -287	-149 -271	-132 -254	-115 -237	-99 -221	-82 -204	-65 -187
70	525.00	lb	-199 -321	-179 -301	-160 -282	-140 -262	-121 -243	-101 -223	-82 -204	-62 -184	-43 -165	-23 -145	-4 -126
80	600.00	lb	-165 -287	-143 -265	-121 -243	-99 -220	-76 -198	-54 -176	-32 -153	-9 -131	12 -109	34 -87	56 -64
90	675.00	lb	-132 -254	-107 -229	-82 -204	-57 -178	-32 -153	-7 -128	17 -103	43 -78	68 -53	93 -28	118 -3
100	750.00	lb	-98 -220	-71 -192	-43 -164	-15 -137	12 -109	40 -81	68 -53	96 -25	123 2	151 30	179 57
110	825.00	lb	-65 -187	-34 -156	-4 -125	26 -95	57 -64	87 -33	118 -3	149 27	179 58	210 88	241 119
120	900.00	lb	-31 -153	1 -120	34 -86	68 -53	101 -19	135 13	168 46	202 80	235 113	268 147	302 180
130	975.00	lb	1 -120	37 -83	74 -47	110 -11	146 24	182 60	218 97	255 133	291 169	327 205	363 242
140	1050.00	lb	35 -86	74 -47	113 -8	152 30	191 69	230 108	269 147	308 186	347 225	386 264	425 303
150	1125.00	lb	68 -53	110 -11	152 30	194 72	235 114	277 155	319 197	361 239	402 281	444 323	486 364

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 2012 input prices.

Table 4.A Estimated costs per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.5000	9.00	_____
HARVEST AIDS					
Paraquat	oz	0.25	8.0000	2.00	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.6600	19.34	_____
Potash (60% K2O)	cwt	29.80	1.0000	29.80	_____
FUNGICIDES					
CruiserMaxx	oz	4.07	1.6000	6.51	_____
Headline EC	oz	2.81	3.0000	8.43	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	6.0000	10.74	_____
2,4-D Amine 4	pt	2.54	2.0000	5.08	_____
Valor SX	oz	5.55	2.0000	11.10	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
Tricor DF	lb	14.46	0.3000	4.34	_____
INSECTICIDES					
Acephate 90SP	lb	6.56	0.7500	4.92	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.04	50.0000	52.00	_____
ADJUVANTS					
Surfactant	pt	3.50	0.1000	0.35	_____
HAULING					
Haul Soybeans/Field	bu	0.28	43.0000	12.04	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2500	11.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.3477	4.08	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1543	1.40	_____
UNALLOCATED LABOR	hour	11.73	0.4049	4.75	_____
DIESEL FUEL					
Tractors	gal	3.50	3.4009	11.91	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	3.95	1.0000	3.95	_____
Tractors	acre	1.68	1.0000	1.68	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	5.93	1.0000	5.93	_____
TOTAL DIRECT EXPENSES				242.98	_____
FIXED EXPENSES					
Implements	acre	8.10	1.0000	8.10	_____
Tractors	acre	10.72	1.0000	10.72	_____
Harvesters	acre	11.04	1.0000	11.04	_____
TOTAL FIXED EXPENSES				29.86	_____
TOTAL SPECIFIED EXPENSES				272.84	_____

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 4.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.05	43.0000	561.15	_____

TOTAL INCOME				561.15	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.00	1.0000	9.00	_____
HARVEST AIDS	acre	2.00	1.0000	2.00	_____
FERTILIZERS	acre	49.14	1.0000	49.14	_____
FUNGICIDES	acre	14.94	1.0000	14.94	_____
HERBICIDES	acre	44.80	1.0000	44.80	_____
INSECTICIDES	acre	4.92	1.0000	4.92	_____
SEED/PLANTS	acre	52.00	1.0000	52.00	_____
ADJUVANTS	acre	0.35	1.0000	0.35	_____
HAULING	acre	12.04	1.0000	12.04	_____
CUSTOM LIME	acre	11.25	1.0000	11.25	_____
HAND LABOR	hour	9.06	0.1543	1.40	_____
OPERATOR LABOR	hour	11.71	0.4499	5.28	_____
UNALLOCATED LABOR	hour	11.73	0.4049	4.75	_____
DIESEL FUEL	gal	3.50	4.7945	16.79	_____
REPAIR & MAINTENANCE	acre	8.39	1.0000	8.39	_____
INTEREST ON OP. CAP.	acre	5.93	1.0000	5.93	_____

TOTAL DIRECT EXPENSES				242.98	_____
RETURNS ABOVE DIRECT EXPENSES				318.17	_____
TOTAL FIXED EXPENSES				29.86	_____

TOTAL SPECIFIED EXPENSES				272.84	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				288.31	_____

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 4.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

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	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
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	Mar	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Folding	12R-30	MFWD 190	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
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				
Dual Magnum	pt					1.0000				
Tricor DF	lb					0.3000				
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				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Headline EC	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			0.50	Aug	0.5000				
Paraquat	oz					8.0000				
Surfactant	pt					0.1000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					43.0000				
TOTALS							0.44	0.44	0.60	0.40

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 4.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	11.25						0.48	11.73		11.73
Spin Spreader	5 ton		1.44	0.46	1.31			0.14	3.35	1.83	5.18
Phosphorus(46% P2O5)	cwt	19.34						0.82	20.16		20.16
Potash (60% K2O)	cwt	29.80						1.27	31.07		31.07
Disk Harrow	24'		2.80	1.18	1.82			0.25	6.05	4.23	10.28
Field Cultivate Fld	24'		2.13	0.68	1.39			0.18	4.38	3.57	7.95
App by Air (5 gal)	appl	6.00						0.15	6.15		6.15
Glyphosate 3lbs a.e	pt	3.58						0.09	3.67		3.67
2,4-D Amine 4	pt	5.08						0.13	5.21		5.21
Valor SX	oz	11.10						0.28	11.38		11.38
Plant - Folding	12R-30		2.15	1.54	1.97			0.12	5.78	4.36	10.14
Soybean Seed RR2	lb	52.00						1.11	53.11		53.11
CruiserMaxx	oz	6.51						0.14	6.65		6.65
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Glyphosate 3lbs a.e	pt	3.58						0.06	3.64		3.64
Dual Magnum	pt	13.54						0.24	13.78		13.78
Tricor DF	lb	4.34						0.08	4.42		4.42
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Glyphosate 3lbs a.e	pt	3.58						0.06	3.64		3.64
Spray (Broadcast)	60'		0.48	0.14	0.38			0.01	1.01	0.52	1.53
Headline EC	oz	8.43						0.09	8.52		8.52
Spray (Broadcast)	60'		0.97	0.29	0.76			0.01	2.03	1.05	3.08
Acephate 90SP	lb	4.92						0.03	4.95		4.95
App by Air (5 gal)	appl	3.00						0.02	3.02		3.02
Paraquat	oz	2.00						0.01	2.01		2.01
Surfactant	pt	0.35							0.35		0.35
Header -Soybean	25' Flex		4.88	3.52	2.28			0.04	10.72	12.20	22.92
Haul Soybeans/Field	bu	12.04						0.04	12.08		12.08
TOTALS		200.44	16.79	8.39	11.43	0.00		5.93	242.98	29.86	272.84

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 4.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

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	561.15
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	3.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
FERTILIZERS	49.14	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	6.51	0.00	0.00	8.43	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	19.76	0.00	25.04	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.92	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.00	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	0.35	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	12.04
CUSTOM LIME	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.52	0.00	0.00	0.00	0.00	0.00	1.97	1.52	0.00	0.38	0.76	2.28
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	6.37	0.00	0.00	0.00	0.00	0.00	2.15	1.94	0.00	0.48	0.97	4.88
REPAIR & MAINTENANCE	2.32	0.00	0.00	0.00	0.00	0.00	1.54	0.58	0.00	0.14	0.29	3.52
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.00	0.65	1.37	0.52	0.00	0.10	0.07	0.08
TOTAL DIRECT EXPENSES	76.74	0.00	0.00	0.00	0.00	26.41	65.54	29.60	0.00	9.53	12.36	22.80
NET INCOME	-76.74	0.00	0.00	0.00	0.00	-26.41	-65.54	-29.60	0.00	-9.53	-12.36	538.35
NET INCOME TO DATE	-76.74	-76.74	-76.74	-76.74	-76.74	-103.15	-168.69	-198.29	-198.29	-207.82	-220.18	318.17

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Soybeans, early-planted, RR, reduced tillage, 12R 30"
 Non-Delta Area, Mississippi, 2013

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Soybeans	9.78	10.44	11.09	11.74	12.39	13.05	13.70	14.35	15.00	15.66	16.31		
PERCENT	YIELD	UNIT	-----dollars-----										
50	21.50	bu	-26	-12	1	15	29	43	57	71	85	99	113
			-56	-42	-28	-14	-0	13	27	41	55	69	83
60	25.80	bu	14	31	48	64	81	98	115	132	149	165	182
			-15	1	18	35	51	68	85	102	119	136	152
70	30.10	bu	55	74	94	114	133	153	173	192	212	232	251
			25	45	64	84	103	123	143	162	182	202	221
80	34.40	bu	96	118	141	163	185	208	230	253	275	298	320
			66	88	111	133	156	178	200	223	245	268	290
90	38.70	bu	137	162	187	212	238	263	288	313	339	364	389
			107	132	157	182	208	233	258	283	309	334	359
100	43.00	bu	177	205	233	262	290	318	346	374	402	430	458
			148	176	204	232	260	288	316	344	372	400	428
110	47.30	bu	218	249	280	311	342	373	403	434	465	496	527
			188	219	250	281	312	343	374	404	435	466	497
120	51.60	bu	259	293	326	360	394	427	461	495	528	562	596
			229	263	297	330	364	398	431	465	499	532	566
130	55.90	bu	300	336	373	409	446	482	519	555	592	628	665
			270	307	343	380	416	453	489	525	562	598	635
140	60.20	bu	341	380	419	459	498	537	577	616	655	694	734
			311	350	390	429	468	507	547	586	625	665	704
150	64.50	bu	382	424	466	508	550	592	634	676	718	761	803
			352	394	436	478	520	562	604	647	689	731	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 2012 input prices.

Table 5.A Estimated costs per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	29.30	0.6600	19.34	_____
Potash (60% K2O)	cwt	29.80	1.0000	29.80	_____
FUNGICIDES					
CruiserMaxx	oz	4.07	1.6000	6.51	_____
Quadris	oz	2.47	3.0000	7.41	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	4.0000	7.16	_____
Tricor DF	lb	14.46	0.3000	4.34	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
INSECTICIDES					
Dimilin 2L	oz	1.84	1.0000	1.84	_____
Acephate 90SP	lb	6.56	0.7500	4.92	_____
Intrepid 2F	oz	1.81	2.0000	3.62	_____
Baythroid XL	oz	2.27	1.0650	2.42	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.04	50.0000	52.00	_____
ADJUVANTS					
Surfactant	pt	3.50	0.0500	0.18	_____
HAULING					
Haul Soybeans/Field	bu	0.28	30.0000	8.40	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2500	11.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.3666	4.30	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1662	1.50	_____
UNALLOCATED LABOR	hour	11.73	0.4219	4.95	_____
DIESEL FUEL					
Tractors	gal	3.50	3.5861	12.56	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	4.50	1.0000	4.50	_____
Tractors	acre	1.78	1.0000	1.78	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	4.36	1.0000	4.36	_____
TOTAL DIRECT EXPENSES				215.52	_____
FIXED EXPENSES					
Implements	acre	9.13	1.0000	9.13	_____
Tractors	acre	11.29	1.0000	11.29	_____
Harvesters	acre	11.04	1.0000	11.04	_____
TOTAL FIXED EXPENSES				31.46	_____
TOTAL SPECIFIED EXPENSES				246.98	_____

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 5.B Summary of estimated costs and returns per acre
 Soybeans, May-planted, RR, convent. tillage, 12R 30"
 Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.05	30.0000	391.50	_____

TOTAL INCOME				391.50	_____
DIRECT EXPENSES					
FERTILIZERS	acre	49.14	1.0000	49.14	_____
FUNGICIDES	acre	13.92	1.0000	13.92	_____
HERBICIDES	acre	25.04	1.0000	25.04	_____
INSECTICIDES	acre	12.80	1.0000	12.80	_____
SEED/PLANTS	acre	52.00	1.0000	52.00	_____
ADJUVANTS	acre	0.18	1.0000	0.18	_____
HAULING	acre	8.40	1.0000	8.40	_____
CUSTOM LIME	acre	11.25	1.0000	11.25	_____
HAND LABOR	hour	9.06	0.1662	1.50	_____
OPERATOR LABOR	hour	11.71	0.4688	5.50	_____
UNALLOCATED LABOR	hour	11.73	0.4219	4.95	_____
DIESEL FUEL	gal	3.50	4.9797	17.44	_____
REPAIR & MAINTENANCE	acre	9.04	1.0000	9.04	_____
INTEREST ON OP. CAP.	acre	4.36	1.0000	4.36	_____

TOTAL DIRECT EXPENSES				215.52	_____
RETURNS ABOVE DIRECT EXPENSES				175.98	_____
TOTAL FIXED EXPENSES				31.46	_____

TOTAL SPECIFIED EXPENSES				246.98	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				144.52	_____

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 5.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

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	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Apr		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
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				
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				
Tricor DF	lb					0.3000				
Dual Magnum	pt					1.0000				
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				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Intrepid 2F	oz					2.0000				
Baythroid XL	oz					1.0650				
Surfactant	pt					0.0500				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					30.0000				
TOTALS							0.46	0.46	0.63	0.42

Note: Cost of production estimates are based on 2012 input prices.
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 \$7 to \$12 per acre.

Table 5.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	11.25						0.48	11.73		11.73
Spin Spreader	5 ton		1.44	0.46	1.31			0.08	3.29	1.83	5.12
Phosphorus(46% P2O5)	cwt	19.34						0.48	19.82		19.82
Potash (60% K2O)	cwt	29.80						0.74	30.54		30.54
Disk Harrow	24'		2.80	1.18	1.82			0.14	5.94	4.23	10.17
Field Cultivate Fld	24'		2.13	0.68	1.39			0.09	4.29	3.57	7.86
Plant & Pre-Folding	12R-30		2.32	2.05	2.11			0.14	6.62	5.44	12.06
Soybean Seed RR2	lb	52.00						1.11	53.11		53.11
CruiserMaxx	oz	6.51						0.14	6.65		6.65
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Glyphosate 3lbs a.e	pt	3.58						0.08	3.66		3.66
Tricor DF	lb	4.34						0.09	4.43		4.43
Dual Magnum	pt	13.54						0.29	13.83		13.83
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Glyphosate 3lbs a.e	pt	3.58						0.06	3.64		3.64
Spray (Broadcast)	60'		0.48	0.14	0.38			0.01	1.01	0.52	1.53
Dimilin 2L	oz	1.84						0.03	1.87		1.87
Quadris	oz	7.41						0.10	7.51		7.51
Spray (Broadcast)	60'		0.97	0.29	0.76			0.02	2.04	1.05	3.09
Acephate 90SP	lb	4.92						0.05	4.97		4.97
Spray (Broadcast)	60'		0.48	0.14	0.38			0.01	1.01	0.52	1.53
Intrepid 2F	oz	3.62						0.04	3.66		3.66
Baythroid XL	oz	2.42						0.03	2.45		2.45
Surfactant	pt	0.18							0.18		0.18
Header -Soybean	25' Flex		4.88	3.52	2.28			0.04	10.72	12.20	22.92
Haul Soybeans/Field	bu	8.40						0.03	8.43		8.43
TOTALS		172.73	17.44	9.04	11.95	0.00		4.36	215.52	31.46	246.98

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 5.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2013

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	391.50
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	49.14	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	6.51	0.00	7.41	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.46	3.58	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	1.84	10.96	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	52.00	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	0.18	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	8.40
CUSTOM LIME	11.25	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	3.13	4.26	0.76	0.38	1.14	0.00	2.28
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	4.24	5.42	0.97	0.48	1.45	0.00	4.88
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	1.64	3.02	0.29	0.14	0.43	0.00	3.52
INTEREST ON OP. CAP.	0.48	0.00	0.00	0.00	0.00	1.44	1.98	0.10	0.14	0.15	0.00	0.07
TOTAL DIRECT EXPENSES	11.73	0.00	0.00	0.00	0.00	59.59	94.65	5.70	10.39	14.31	0.00	19.15
NET INCOME	-11.73	0.00	0.00	0.00	0.00	-59.59	-94.65	-5.70	-10.39	-14.31	0.00	372.35
NET INCOME TO DATE	-11.73	-11.73	-11.73	-11.73	-11.73	-71.32	-165.97	-171.67	-182.06	-196.37	-196.37	175.98

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, convent. tillage, 12R 30"
 Non-Delta Area, Mississippi, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
			-----dollars-----										
Soybeans			9.78	10.44	11.09	11.74	12.39	13.05	13.70	14.35	15.00	15.66	16.31
PERCENT	YIELD	UNIT											
50	15.00	bu	-64	-54	-44	-35	-25	-15	-5	4	13	23	33
			-95	-86	-76	-66	-56	-47	-37	-27	-17	-7	1
60	18.00	bu	-35	-24	-12	-0	11	22	34	46	57	69	81
			-67	-55	-43	-32	-20	-8	3	14	26	38	50
70	21.00	bu	-7	6	19	33	47	61	74	88	102	115	129
			-38	-25	-11	2	15	29	43	57	70	84	98
80	24.00	bu	21	36	52	68	83	99	115	130	146	162	177
			-10	5	20	36	52	67	83	99	114	130	146
90	27.00	bu	49	67	84	102	120	137	155	172	190	208	225
			18	35	53	70	88	106	123	141	159	176	194
100	30.00	bu	78	97	117	136	156	175	195	215	234	254	273
			46	66	85	105	124	144	164	183	203	222	242
110	33.00	bu	106	128	149	171	192	214	235	257	278	300	321
			75	96	118	139	161	182	204	225	247	268	290
120	36.00	bu	135	158	182	205	229	252	276	299	323	346	370
			103	127	150	174	197	221	244	268	291	315	338
130	39.00	bu	163	189	214	240	265	290	316	341	367	392	418
			132	157	183	208	233	259	284	310	335	361	386
140	42.00	bu	192	219	246	274	301	329	356	384	411	438	466
			160	188	215	242	270	297	325	352	379	407	434
150	45.00	bu	220	250	279	308	338	367	396	426	455	484	514
			189	218	247	277	306	336	365	394	424	453	482

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 2012 input prices.

Table 6.A Estimated costs per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	29.30	0.6600	19.34	_____
Potash (60% K2O)	cwt	29.80	1.0000	29.80	_____
FUNGICIDES					
CruiserMaxx	oz	4.07	1.6000	6.51	_____
Quadris	oz	2.47	3.0000	7.41	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	5.0000	8.95	_____
Tricor DF	lb	14.46	0.3000	4.34	_____
Dual Magnum	pt	13.54	1.0000	13.54	_____
INSECTICIDES					
Dimilin 2L	oz	1.84	1.0000	1.84	_____
Acephate 90SP	lb	6.56	0.7500	4.92	_____
Intrepid 2F	oz	1.81	3.0000	5.43	_____
Baythroid XL	oz	2.27	1.5975	3.63	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.04	50.0000	52.00	_____
HAULING					
Haul Soybeans/Field	bu	0.28	25.0000	7.00	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.2465	2.90	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1795	1.63	_____
UNALLOCATED LABOR	hour	11.63	0.2999	3.49	_____
DIESEL FUEL					
Tractors	gal	3.50	2.4116	8.44	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	3.68	1.0000	3.68	_____
Tractors	acre	1.20	1.0000	1.20	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	4.22	1.0000	4.22	_____

TOTAL DIRECT EXPENSES				199.11	_____
FIXED EXPENSES					
Implements	acre	6.36	1.0000	6.36	_____
Tractors	acre	7.59	1.0000	7.59	_____
Harvesters	acre	11.04	1.0000	11.04	_____

TOTAL FIXED EXPENSES				24.99	_____

TOTAL SPECIFIED EXPENSES				224.10	_____

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 6.B Summary of estimated costs and returns per acre
 Soybeans after wheat, RR, no-till, 12R 30"
 Non-Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.05	25.0000	326.25	_____

TOTAL INCOME				326.25	_____
DIRECT EXPENSES					
FERTILIZERS	acre	49.14	1.0000	49.14	_____
FUNGICIDES	acre	13.92	1.0000	13.92	_____
HERBICIDES	acre	26.83	1.0000	26.83	_____
INSECTICIDES	acre	15.82	1.0000	15.82	_____
SEED/PLANTS	acre	52.00	1.0000	52.00	_____
HAULING	acre	7.00	1.0000	7.00	_____
HAND LABOR	hour	9.06	0.1795	1.63	_____
OPERATOR LABOR	hour	11.71	0.3487	4.10	_____
UNALLOCATED LABOR	hour	11.63	0.2999	3.49	_____
DIESEL FUEL	gal	3.50	3.8052	13.32	_____
REPAIR & MAINTENANCE	acre	7.64	1.0000	7.64	_____
INTEREST ON OP. CAP.	acre	4.22	1.0000	4.22	_____

TOTAL DIRECT EXPENSES				199.11	_____
RETURNS ABOVE DIRECT EXPENSES				127.14	_____
TOTAL FIXED EXPENSES				24.99	_____

TOTAL SPECIFIED EXPENSES				224.10	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				102.15	_____

Note: Cost of production estimates are based on 2012 input prices.
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 \$7 to \$12 per acre.

Table 6.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
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				
NT Plant&Pre-Folding	12R-30	MFWD 190	0.070	1.00	Jun		0.07	0.07	0.14	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Tricor DF	lb					0.3000				
Dual Magnum	pt					1.0000				
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				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.75	Aug		0.02	0.02	0.03	0.01
Intrepid 2F	oz					3.0000				
Baythroid XL	oz					1.5975				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans/Field	bu					25.0000				
TOTALS							0.34	0.34	0.52	0.29

Note: Cost of production estimates are based on 2012 input prices.
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 \$7 to \$12 per acre.

Table 6.D Estimated costs for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Spin Spreader	5 ton		1.44	0.46	1.29			0.14	3.33	1.83	5.16
Phosphorus(46% P2O5)	cwt	19.34						0.82	20.16		20.16
Potash (60% K2O)	cwt	29.80						1.27	31.07		31.07
Spray (Broadcast)	60'		0.97	0.29	0.74			0.04	2.04	1.05	3.09
Glyphosate 3lbs a.e	pt	3.58						0.06	3.64		3.64
NT Plant&Pre-Folding	12R-30		2.41	2.30	2.18			0.12	7.01	5.99	13.00
Soybean Seed RR2	lb	52.00						0.92	52.92		52.92
CruiserMaxx	oz	6.51						0.12	6.63		6.63
Spray (Broadcast)	60'		0.97	0.29	0.74			0.03	2.03	1.05	3.08
Glyphosate 3lbs a.e	pt	3.58						0.05	3.63		3.63
Tricor DF	lb	4.34						0.06	4.40		4.40
Dual Magnum	pt	13.54						0.19	13.73		13.73
Spray (Broadcast)	60'		0.48	0.14	0.37			0.01	1.00	0.52	1.52
Glyphosate 3lbs a.e	pt	1.79						0.03	1.82		1.82
Spray (Broadcast)	60'		0.48	0.14	0.37			0.01	1.00	0.52	1.52
Dimilin 2L	oz	1.84						0.02	1.86		1.86
Quadris	oz	7.41						0.08	7.49		7.49
Spray (Broadcast)	60'		0.97	0.29	0.74			0.02	2.02	1.05	3.07
Acephate 90SP	lb	4.92						0.05	4.97		4.97
Spray (Broadcast)	60'		0.72	0.21	0.56			0.02	1.51	0.78	2.29
Intrepid 2F	oz	5.43						0.06	5.49		5.49
Baythroid XL	oz	3.63						0.04	3.67		3.67
Header -Soybean	25' Flex		4.88	3.52	2.23			0.04	10.67	12.20	22.87
Haul Soybeans/Field	bu	7.00						0.02	7.02		7.02
TOTALS		164.71	13.32	7.64	9.22	0.00		4.22	199.11	24.99	224.10

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

Table 6.E Estimated monthly income and expense flows per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2013

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	326.25
DIRECT EXPENSES												
FERTILIZERS	49.14	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	6.51	0.00	7.41	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.58	23.25	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	15.82	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.00	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	7.00
LABOR	1.29	0.00	0.00	0.00	0.00	0.00	0.00	2.92	1.11	1.67	0.00	2.23
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	1.44	0.00	0.00	0.00	0.00	0.00	0.00	3.38	1.45	2.17	0.00	4.88
REPAIR & MAINTENANCE	0.46	0.00	0.00	0.00	0.00	0.00	0.00	2.59	0.43	0.64	0.00	3.52
INTEREST ON OP. CAP.	2.23	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.37	0.30	0.00	0.06
TOTAL DIRECT EXPENSES	54.56	0.00	0.00	0.00	0.00	0.00	0.00	72.24	26.61	28.01	0.00	17.69
NET INCOME	-54.56	0.00	0.00	0.00	0.00	0.00	0.00	-72.24	-26.61	-28.01	0.00	308.56
NET INCOME TO DATE	-54.56	-54.56	-54.56	-54.56	-54.56	-54.56	-54.56	-126.80	-153.41	-181.42	-181.42	127.14

Note: Cost of production estimates are based on 2012 input prices.

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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Soybeans after wheat, RR, no-till, 12R 30"
 Non-Delta Area, Mississippi, 2013

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Soybeans	9.78	10.44	11.09	11.74	12.39	13.05	13.70	14.35	15.00	15.66	16.31		
PERCENT	YIELD	UNIT	-----dollars-----										
50	12.50	bu	-73	-65	-56	-48	-40	-32	-24	-16	-8	0	8
			-98	-90	-81	-73	-65	-57	-49	-41	-32	-24	-16
60	15.00	bu	-49	-39	-29	-20	-10	-0	9	19	28	38	48
			-74	-64	-54	-45	-35	-25	-15	-5	3	13	23
70	17.50	bu	-25	-14	-2	8	19	31	42	54	65	77	88
			-50	-39	-27	-16	-5	6	17	29	40	52	63
80	20.00	bu	-1	11	24	37	50	63	76	89	102	115	128
			-26	-13	-0	12	25	38	51	64	77	90	103
90	22.50	bu	21	36	51	65	80	95	109	124	139	153	168
			-3	11	26	40	55	70	84	99	114	128	143
100	25.00	bu	45	61	78	94	110	127	143	159	176	192	208
			20	36	53	69	85	102	118	134	151	167	183
110	27.50	bu	69	87	105	123	141	159	177	194	212	230	248
			44	62	80	98	116	134	152	169	187	205	223
120	30.00	bu	93	112	132	151	171	190	210	230	249	269	288
			68	87	107	126	146	165	185	205	224	244	263
130	32.50	bu	116	138	159	180	201	222	244	265	286	307	328
			91	113	134	155	176	197	219	240	261	282	303
140	35.00	bu	140	163	186	209	231	254	277	300	323	346	369
			115	138	161	184	207	229	252	275	298	321	344
150	37.50	bu	164	188	213	237	262	286	311	335	360	384	409
			139	163	188	212	237	261	286	310	335	359	384

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 2012 input prices.

Table 7.A Estimated costs per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

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	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
UAN + Sulfur (28%)	cwt	20.90	2.1430	44.79	_____
UAN (32% N)	cwt	21.10	3.2815	69.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
Steadfast	oz	23.95	0.3750	8.98	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.11	28.0000	87.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5682	6.65	_____
Harvesters	hour	11.71	0.1277	1.50	_____
Self-Propelled	hour	11.71	0.0176	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.1995	1.80	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	11.73	0.6422	7.54	_____
DIESEL FUEL					
Tractors	gal	3.50	4.9725	17.41	_____
Harvesters	gal	3.50	1.7419	6.10	_____
Self-Propelled	gal	3.50	0.1586	0.56	_____
REPAIR & MAINTENANCE					
Implements	acre	7.96	1.0000	7.96	_____
Tractors	acre	2.55	1.0000	2.55	_____
Harvesters	acre	3.45	1.0000	3.45	_____
Self-Propelled	acre	0.15	1.0000	0.15	_____
INTEREST ON OP. CAP.	acre	10.58	1.0000	10.58	_____
TOTAL DIRECT EXPENSES				459.49	_____
FIXED EXPENSES					
Implements	acre	11.56	1.0000	11.56	_____
Tractors	acre	16.36	1.0000	16.36	_____
Harvesters	acre	13.80	1.0000	13.80	_____
Self-Propelled	acre	1.01	1.0000	1.01	_____
TOTAL FIXED EXPENSES				42.73	_____
TOTAL SPECIFIED EXPENSES				502.22	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 7.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.02	135.0000	812.70	_____

TOTAL INCOME				812.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	173.54	1.0000	173.54	_____
HERBICIDES	acre	47.04	1.0000	47.04	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	87.08	1.0000	87.08	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	37.80	1.0000	37.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.2084	1.88	_____
OPERATOR LABOR	hour	11.71	0.7136	8.36	_____
UNALLOCATED LABOR	hour	11.73	0.6422	7.54	_____
DIESEL FUEL	gal	3.50	6.8732	24.07	_____
REPAIR & MAINTENANCE	acre	14.11	1.0000	14.11	_____
INTEREST ON OP. CAP.	acre	10.58	1.0000	10.58	_____

TOTAL DIRECT EXPENSES				459.49	_____
RETURNS ABOVE DIRECT EXPENSES				353.21	_____
TOTAL FIXED EXPENSES				42.73	_____

TOTAL SPECIFIED EXPENSES				502.22	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				310.48	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 7.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

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	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				
Spray (Broadcast)	60'	MFWD 170	0.028	1.00	May		0.02	0.02	0.04	0.02
Steadfast	oz					0.3750				
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/Field	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.71	0.69	0.92	0.64

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 7.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

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						0.96	23.46		23.46
Spin Spreader	5 ton		1.29	0.45	1.31			0.13	3.18	1.74	4.92
DAP	cwt	34.78						1.48	36.26		36.26
Potash (60% K20)	cwt	24.73						1.05	25.78		25.78
Disk Heavy	20'		2.98	1.37	2.17			0.28	6.80	4.80	11.60
Bed-Disk w/roller	8R-30		2.87	0.91	2.09			0.25	6.12	4.02	10.14
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68		3.68
Clarity	pt	5.42						0.15	5.57		5.57
Plant - Rigid	8R-30		2.89	1.55	2.94			0.18	7.56	4.91	12.47
Corn Seed RR2	thous	87.08						2.16	89.24		89.24
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	44.79						0.95	45.74		45.74
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.48			0.03	1.22	1.01	2.23
Atrazine 4L	pt	6.88						0.15	7.03		7.03
Halex GT	pt	22.18						0.47	22.65		22.65
Fert Appl (Liquid)	8R-30		3.01	1.34	2.63			0.12	7.10	3.86	10.96
UAN (32% N)	cwt	69.24						1.23	70.47		70.47
Spray (Broadcast)	60'		0.86	0.28	0.76			0.03	1.93	0.99	2.92
Steadfast	oz	8.98						0.16	9.14		9.14
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	7.24						0.10	7.34		7.34
Header - Corn	8R-30		6.10	5.13	2.85			0.05	14.13	16.37	30.50
Grain Cart Corn	500 bu		0.98	0.36	0.71			0.01	2.06	1.30	3.36
Haul Corn/Field	bu	37.80						0.13	37.93		37.93
Stalk Shredder Flex	20'		2.53	2.57	1.84			0.02	6.96	3.73	10.69
TOTALS		392.95	24.07	14.11	17.78	0.00	10.58	459.49	42.73	502.22	

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 7.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

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	812.70
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	59.51	0.00	0.00	0.00	0.00	0.00	44.79	69.24	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	8.98	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	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	87.08	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	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.80
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	5.57	0.00	0.00	0.00	0.00	2.94	0.48	3.39	0.00	0.00	0.00	5.40
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	7.14	0.00	0.00	0.00	0.00	2.89	0.56	3.87	0.00	0.00	0.00	9.61
REPAIR & MAINTENANCE	2.73	0.00	0.00	0.00	0.00	1.55	0.15	1.62	0.00	0.00	0.00	8.06
INTEREST ON OP. CAP.	4.15	0.00	0.00	0.00	0.42	2.34	1.75	1.54	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	101.60	0.00	0.00	0.00	15.42	96.80	83.79	88.64	12.16	0.00	0.00	61.08
NET INCOME	-101.60	0.00	0.00	0.00	-15.42	-96.80	-83.79	-88.64	-12.16	0.00	0.00	751.62
NET INCOME TO DATE	-101.60	-101.60	-101.60	-101.60	-117.02	-213.82	-297.61	-386.25	-398.41	-398.41	-398.41	353.21

Note: Cost of production estimates are based on 2012 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
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Corn	4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-135	-115	-95	-74	-54	-34	-13	6	26	47	67
			-178	-158	-137	-117	-97	-76	-56	-36	-15	4	24
60	81.00	bu	-78	-54	-29	-5	18	43	67	92	116	140	165
			-121	-96	-72	-48	-23	0	24	49	73	98	122
70	94.50	bu	-21	7	35	63	92	120	149	177	206	234	263
			-64	-35	-7	21	49	78	106	134	163	191	220
80	108.00	bu	35	68	100	133	165	198	230	263	295	328	360
			-7	25	58	90	123	155	188	220	253	285	318
90	121.50	bu	92	129	166	202	239	275	312	348	385	422	458
			50	86	123	159	196	233	269	306	342	379	415
100	135.00	bu	150	190	231	271	312	353	393	434	475	515	556
			107	147	188	229	269	310	351	391	432	473	513
110	148.50	bu	207	251	296	341	385	430	475	520	564	609	654
			164	209	253	298	343	387	432	477	522	566	611
120	162.00	bu	264	313	361	410	459	508	556	605	654	703	751
			221	270	319	367	416	465	514	562	611	660	709
130	175.50	bu	321	374	427	479	532	585	638	691	744	796	849
			278	331	384	437	490	542	595	648	701	754	807
140	189.00	bu	378	435	492	549	606	663	720	776	833	890	947
			335	392	449	506	563	620	677	734	791	847	904
150	202.50	bu	435	496	557	618	679	740	801	862	923	984	1045
			393	454	515	575	636	697	758	819	880	941	1002

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 2012 input prices.

Table 8.A Estimated costs per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

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	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
Fert 10-34-0	cwt	35.00	0.5000	17.50	_____
UAN (32% N)	cwt	21.10	5.0000	105.50	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.34	28.0000	93.52	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4231	4.95	_____
Harvesters	hour	11.71	0.1277	1.50	_____
HAND LABOR					
Implements	hour	9.06	0.2283	2.06	_____
UNALLOCATED LABOR	hour	11.71	0.4957	5.81	_____
DIESEL FUEL					
Tractors	gal	3.50	3.2673	11.43	_____
Harvesters	gal	3.50	1.7419	6.10	_____
REPAIR & MAINTENANCE					
Implements	acre	7.07	1.0000	7.07	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	3.45	1.0000	3.45	_____
INTEREST ON OP. CAP.	acre	9.33	1.0000	9.33	_____
TOTAL DIRECT EXPENSES				445.81	_____
FIXED EXPENSES					
Implements	acre	9.26	1.0000	9.26	_____
Tractors	acre	10.60	1.0000	10.60	_____
Harvesters	acre	13.80	1.0000	13.80	_____
TOTAL FIXED EXPENSES				33.66	_____
TOTAL SPECIFIED EXPENSES				479.47	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 8.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.02	135.0000	812.70	_____

TOTAL INCOME				812.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	182.51	1.0000	182.51	_____
HERBICIDES	acre	38.06	1.0000	38.06	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	93.52	1.0000	93.52	_____
HAULING	acre	37.80	1.0000	37.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.2283	2.06	_____
OPERATOR LABOR	hour	11.71	0.5508	6.45	_____
UNALLOCATED LABOR	hour	11.71	0.4957	5.81	_____
DIESEL FUEL	gal	3.50	5.0092	17.53	_____
REPAIR & MAINTENANCE	acre	12.25	1.0000	12.25	_____
INTEREST ON OP. CAP.	acre	9.33	1.0000	9.33	_____

TOTAL DIRECT EXPENSES				445.81	_____
RETURNS ABOVE DIRECT EXPENSES				366.89	_____
TOTAL FIXED EXPENSES				33.66	_____

TOTAL SPECIFIED EXPENSES				479.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				333.23	_____

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 8.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

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				
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Spin Spreader	5 ton	2WD 150	0.042	1.00	Mar		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
NT Plant&Pre-Rigid	8R-30	2WD 150	0.105	1.00	Mar		0.10	0.10	0.21	0.09
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	cwt					0.5000				
Spray (Broadcast)	27'	2WD 150	0.062	1.00	Apr		0.06	0.06	0.09	0.05
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-30	2WD 150	0.098	1.00	Apr		0.09	0.09	0.14	0.08
UAN (32% N)	cwt					5.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	2WD 150	0.031	1.00	Sep		0.03	0.03	0.03	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder Flex	20'	2WD 150	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.55	0.55	0.77	0.49

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 8.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

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						0.96	23.46	23.46
App by Air (5 gal)	appl	6.00						0.17	6.17	6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68	3.68
Clarity	pt	5.42						0.15	5.57	5.57
Spin Spreader	5 ton		1.14	0.43	1.31			0.07	2.95	1.58 4.53
DAP	cwt	34.78						0.86	35.64	35.64
Potash (60% K2O)	cwt	24.73						0.61	25.34	25.34
NT Plant&Pre-Rigid	8R-30		2.86	2.08	3.31			0.20	8.45	5.86 14.31
Corn Seed BtRR	thous	93.52						2.32	95.84	95.84
Fert 10-34-0	cwt	17.50						0.43	17.93	17.93
Spray (Broadcast)	27'		1.69	0.42	1.67			0.08	3.86	1.76 5.62
Atrazine 4L	pt	6.88						0.15	7.03	7.03
Halex GT	pt	22.18						0.47	22.65	22.65
Fert Appl (Liquid)	8R-30		2.65	1.30	2.63			0.14	6.72	3.49 10.21
UAN (32% N)	cwt	105.50						2.24	107.74	107.74
App by Air (3 gal)	appl	4.75						0.07	4.82	4.82
Intrepid 2F	oz	7.24						0.10	7.34	7.34
Header - Corn	8R-30		6.10	5.13	2.85			0.05	14.13	16.37 30.50
Grain Cart Corn	500 bu		0.86	0.35	0.71			0.01	1.93	1.18 3.11
Haul Corn/Field	bu	37.80						0.13	37.93	37.93
Stalk Shredder Flex	20'		2.23	2.54	1.84			0.02	6.63	3.42 10.05
TOTALS		392.38	17.53	12.25	14.32	0.00	9.33	445.81	33.66	479.47

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 8.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

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	812.70
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	0.00	0.00	0.00	0.00	0.00	77.01	105.50	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	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	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	93.52	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	37.80
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	4.62	4.30	0.00	0.00	0.00	0.00	5.40
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	4.00	4.34	0.00	0.00	0.00	0.00	9.19
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	2.51	1.72	0.00	0.00	0.00	0.00	8.02
INTEREST ON OP. CAP.	0.96	0.00	0.00	0.00	0.42	4.49	3.08	0.00	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	23.46	0.00	0.00	0.00	15.42	186.15	148.00	0.00	12.16	0.00	0.00	60.62
NET INCOME	-23.46	0.00	0.00	0.00	-15.42	-186.15	-148.00	0.00	-12.16	0.00	0.00	752.08
NET INCOME TO DATE	-23.46	-23.46	-23.46	-23.46	-38.88	-225.03	-373.03	-373.03	-385.19	-385.19	-385.19	366.89

Note: Cost of production estimates are based on 2012 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 8.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Corn	4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-122	-101	-81	-61	-40	-20	-0	20	40	60	81
			-155	-135	-115	-94	-74	-54	-33	-13	6	27	47
60	81.00	bu	-64	-40	-16	8	32	56	81	105	130	154	178
			-98	-74	-49	-25	-1	23	47	72	96	120	145
70	94.50	bu	-7	20	49	77	106	134	162	191	219	248	276
			-41	-12	15	43	72	100	129	157	186	214	243
80	108.00	bu	49	81	114	146	179	211	244	276	309	341	374
			15	48	80	113	145	178	210	243	275	308	340
90	121.50	bu	106	143	179	216	252	289	325	362	399	435	472
			72	109	146	182	219	255	292	328	365	402	438
100	135.00	bu	163	204	244	285	326	366	407	448	488	529	570
			130	170	211	251	292	333	373	414	455	495	536
110	148.50	bu	220	265	310	354	399	444	489	533	578	623	667
			187	231	276	321	366	410	455	500	544	589	634
120	162.00	bu	278	326	375	424	473	521	570	619	668	716	765
			244	293	341	390	439	488	536	585	634	683	731
130	175.50	bu	335	388	440	493	546	599	652	704	757	810	863
			301	354	407	460	512	565	618	671	724	776	829
140	189.00	bu	392	449	506	563	619	676	733	790	847	904	961
			358	415	472	529	586	643	700	756	813	870	927
150	202.50	bu	449	510	571	632	693	754	815	876	937	998	1059
			415	476	537	598	659	720	781	842	903	964	1025

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 2012 input prices.

Table 9.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Custom Spray	acre	6.50	1.0000	6.50	_____
FERTILIZERS					
DAP	cwt	32.00	0.7600	24.32	_____
Potash (60% K2O)	cwt	29.80	0.5800	17.28	_____
UAN (32% N)	cwt	21.10	3.0690	64.76	_____
HERBICIDES					
Bicep II Magnum	qt	11.82	3.0000	35.46	_____
SEED/PLANTS					
Sorghum Concept	lb	2.03	6.0000	12.18	_____
HAULING					
Haul Sorghum/Field	bu	0.28	100.0000	28.00	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.3120	3.66	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
UNALLOCATED LABOR	hour	11.69	0.3727	4.36	_____
DIESEL FUEL					
Tractors	gal	3.50	2.7303	9.57	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	4.23	1.0000	4.23	_____
Tractors	acre	1.40	1.0000	1.40	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	4.55	1.0000	4.55	_____
TOTAL DIRECT EXPENSES				248.92	_____
FIXED EXPENSES					
Implements	acre	8.31	1.0000	8.31	_____
Tractors	acre	8.98	1.0000	8.98	_____
Harvesters	acre	11.04	1.0000	11.04	_____
TOTAL FIXED EXPENSES				28.33	_____
TOTAL SPECIFIED EXPENSES				277.25	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 9.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	5.72	100.0000	572.00	_____

TOTAL INCOME				572.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
FERTILIZERS	acre	106.36	1.0000	106.36	_____
HERBICIDES	acre	35.46	1.0000	35.46	_____
SEED/PLANTS	acre	12.18	1.0000	12.18	_____
HAULING	acre	28.00	1.0000	28.00	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1442	1.31	_____
OPERATOR LABOR	hour	11.71	0.4142	4.86	_____
UNALLOCATED LABOR	hour	11.69	0.3727	4.36	_____
DIESEL FUEL	gal	3.50	4.1239	14.45	_____
REPAIR & MAINTENANCE	acre	8.39	1.0000	8.39	_____
INTEREST ON OP. CAP.	acre	4.55	1.0000	4.55	_____

TOTAL DIRECT EXPENSES				248.92	_____
RETURNS ABOVE DIRECT EXPENSES				323.08	_____
TOTAL FIXED EXPENSES				28.33	_____

TOTAL SPECIFIED EXPENSES				277.25	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				294.75	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 9.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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	Apr		0.04	0.04	0.08	0.03
DAP	cwt					0.7600				
Potash (60% K20)	cwt					0.5800				
Disk Harrow	24'	MFWD 170	0.081	1.00	Apr		0.08	0.08	0.08	0.07
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	May		0.06	0.06	0.12	0.05
Sorghum Concept	lb					6.0000				
Custom Spray	acre			1.00	May	1.0000				
Bicep II Magnum	qt					3.0000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN (32% N)	cwt					3.0690				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum/Field	bu					100.0000				
TOTALS							0.41	0.41	0.55	0.37

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 9.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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						0.96	23.46		23.46
Spin Spreader	5 ton		1.29	0.45	1.31			0.06	3.11	1.74	4.85
DAP	cwt	24.32						0.52	24.84		24.84
Potash (60% K2O)	cwt	17.28						0.37	17.65		17.65
Disk Harrow	24'		2.51	1.16	1.82			0.12	5.61	4.07	9.68
Field Cultivate Fld	32'		1.43	0.58	1.04			0.06	3.11	2.94	6.05
Plant - Folding	12R-30		1.93	1.52	1.97			0.10	5.52	4.23	9.75
Sorghum Concept	lb	12.18						0.22	12.40		12.40
Custom Spray	acre	6.50						0.12	6.62		6.62
Bicep II Magnum	qt	35.46						0.63	36.09		36.09
Fert Appl (Liquid)	12R-30		2.41	1.27	2.11			0.10	5.89	3.31	9.20
UAN (32% N)	cwt	64.76						1.15	65.91		65.91
Header Wheat/Sorghum	25' Rigid		4.88	3.41	2.28			0.04	10.61	12.04	22.65
Haul Sorghum/Field	bu	28.00						0.10	28.10		28.10
TOTALS		211.00	14.45	8.39	10.53	0.00	4.55	248.92	28.33	277.25	

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 9.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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	572.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	41.60	64.76	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.46	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.18	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	28.00
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	0.00	4.17	4.08	0.00	0.00	0.00	2.28
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	5.23	4.34	0.00	0.00	0.00	4.88
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.19	2.79	0.00	0.00	0.00	3.41
INTEREST ON OP. CAP.	0.96	0.00	0.00	0.00	0.00	0.00	1.13	2.32	0.00	0.00	0.00	0.14
TOTAL DIRECT EXPENSES	23.46	0.00	0.00	0.00	0.00	0.00	54.32	132.43	0.00	0.00	0.00	38.71
NET INCOME	-23.46	0.00	0.00	0.00	0.00	0.00	-54.32	-132.43	0.00	0.00	0.00	533.29
NET INCOME TO DATE	-23.46	-23.46	-23.46	-23.46	-23.46	-23.46	-77.78	-210.21	-210.21	-210.21	-210.21	323.08

Note: Cost of production estimates are based on 2012 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Grain Sorghum			4.29	4.57	4.86	5.14	5.43	5.72	6.00	6.29	6.57	6.86	7.15
PERCENT	YIELD	UNIT	dollars										
50	50.00	bu	-20	-6	8	22	36	51	65	79	94	108	122
			-48	-34	-20	-5	8	22	37	51	65	80	94
60	60.00	bu	19	36	54	71	88	105	122	139	157	174	191
			-8	8	25	42	60	77	94	111	128	145	162
70	70.00	bu	59	79	99	119	139	159	179	199	219	239	260
			31	51	71	91	111	131	151	171	191	211	231
80	80.00	bu	99	122	145	168	191	214	237	260	282	305	328
			71	94	117	140	163	185	208	231	254	277	300
90	90.00	bu	139	165	191	217	242	268	294	320	345	371	397
			111	137	163	188	214	240	266	291	317	343	369
100	100.00	bu	180	208	237	265	294	323	351	380	408	437	466
			151	180	208	237	266	294	323	351	380	409	437
110	110.00	bu	220	251	283	314	346	377	408	440	471	503	534
			191	223	254	286	317	349	380	412	443	474	506
120	120.00	bu	260	294	328	363	397	431	466	500	534	569	603
			231	266	300	334	369	403	437	472	506	540	575
130	130.00	bu	300	337	374	411	449	486	523	560	597	634	672
			272	309	346	383	420	457	495	532	569	606	643
140	140.00	bu	340	380	420	460	500	540	580	620	660	700	740
			312	352	392	432	472	512	552	592	632	672	712
150	150.00	bu	380	423	466	509	552	595	637	680	723	766	809
			352	395	438	480	523	566	609	652	695	738	781

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 2012 input prices.

Table 10.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

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	32.00	1.0000	32.00	_____
Potash (60% K2O)	cwt	29.80	0.7500	22.35	_____
Fert 41-0-0-4	cwt	26.30	2.8000	73.64	_____
FUNGICIDES					
Quilt	pt	19.37	0.8750	16.95	_____
HERBICIDES					
Axiom 68DF	oz	1.73	10.0000	17.30	_____
Axial	oz	0.98	16.4000	16.07	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.37	90.0000	33.30	_____
ADJUVANTS					
Surfactant	pt	3.50	1.6000	5.60	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	2.8000	18.20	_____
HAULING					
Haul Wheat/Field	bu	0.28	70.0000	19.60	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.2648	3.10	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	11.71	0.2936	3.44	_____
DIESEL FUEL					
Tractors	gal	3.50	2.3178	8.12	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	3.37	1.0000	3.37	_____
Tractors	acre	1.19	1.0000	1.19	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	7.53	1.0000	7.53	_____
TOTAL DIRECT EXPENSES				332.33	_____
FIXED EXPENSES					
Implements	acre	7.37	1.0000	7.37	_____
Tractors	acre	7.62	1.0000	7.62	_____
Harvesters	acre	11.04	1.0000	11.04	_____
TOTAL FIXED EXPENSES				26.03	_____
TOTAL SPECIFIED EXPENSES				358.36	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	7.82	70.0000	547.40	_____

TOTAL INCOME				547.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	127.99	1.0000	127.99	_____
FUNGICIDES	acre	16.95	1.0000	16.95	_____
HERBICIDES	acre	33.37	1.0000	33.37	_____
SEED/PLANTS	acre	33.30	1.0000	33.30	_____
ADJUVANTS	acre	5.60	1.0000	5.60	_____
CUSTOM FERTILIZE	acre	18.20	1.0000	18.20	_____
HAULING	acre	19.60	1.0000	19.60	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	11.71	0.3670	4.30	_____
UNALLOCATED LABOR	hour	11.71	0.2936	3.44	_____
DIESEL FUEL	gal	3.50	3.7114	13.00	_____
REPAIR & MAINTENANCE	acre	7.32	1.0000	7.32	_____
INTEREST ON OP. CAP.	acre	7.53	1.0000	7.53	_____

TOTAL DIRECT EXPENSES				332.33	_____
RETURNS ABOVE DIRECT EXPENSES				215.07	_____
TOTAL FIXED EXPENSES				26.03	_____

TOTAL SPECIFIED EXPENSES				358.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				189.04	_____

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

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				
Surfactant	pt					1.5000				
App by Air (5 gal)	appl			1.00	Jan	1.0000				
Axial	oz					16.4000				
Surfactant	pt					0.1000				
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/Field	bu					70.0000				
TOTALS							0.36	0.36	0.50	0.29

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Lime (Spread)	ton	22.50					0.80	23.30	23.30	
Disk Harrow	24'		2.51	1.16	1.73		0.19	5.59	4.07	
Spin Spreader	5 ton		1.29	0.45	1.26		0.11	3.11	1.74	
DAP	cwt	32.00					1.13	33.13	33.13	
Potash (60% K2O)	cwt	22.35					0.79	23.14	23.14	
Field Cultivate Fld	32'		1.43	0.58	0.99		0.11	3.11	2.94	
Grain Drill	20'		2.89	1.72	2.83		0.24	7.68	5.24	
Wheat Seed Private	lb	33.30					1.06	34.36	34.36	
App by Air (5 gal)	appl	6.00					0.17	6.17	6.17	
Axiom 68DF	oz	17.30					0.49	17.79	17.79	
Surfactant	pt	5.25					0.15	5.40	5.40	
App by Air (5 gal)	appl	6.00					0.13	6.13	6.13	
Axial	oz	16.07					0.34	16.41	16.41	
Surfactant	pt	0.35					0.01	0.36	0.36	
App Fert by Air	cwt	9.10					0.16	9.26	9.26	
Fert 41-0-0-4	cwt	36.82					0.65	37.47	37.47	
App Fert by Air	cwt	9.10					0.13	9.23	9.23	
Fert 41-0-0-4	cwt	36.82					0.52	37.34	37.34	
App by Air (5 gal)	appl	6.00					0.06	6.06	6.06	
Quilt	pt	16.95					0.18	17.13	17.13	
Header Wheat/Sorghum	25' Rigid		4.88	3.41	2.16		0.04	10.49	12.04	
Haul Wheat/Field	bu	19.60					0.07	19.67	19.67	
TOTALS		295.51	13.00	7.32	8.97	0.00	7.53	332.33	26.03	358.36

Note: Cost of production estimates are based on 2012 input prices.
Fertilization decisions should be based on soil tests.

Table 10.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

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	547.40
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	54.35	0.00	0.00	0.00	0.00	36.82	36.82	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	16.95	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.30	0.00	16.07	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	5.25	0.00	0.35	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	19.60
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	3.98	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	5.23	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88
REPAIR & MAINTENANCE	0.00	0.00	2.19	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.41
INTEREST ON OP. CAP.	0.00	0.00	3.13	1.30	0.81	0.00	0.48	0.81	0.65	0.24	0.00	0.11
TOTAL DIRECT EXPENSES	0.00	0.00	91.38	42.04	29.36	0.00	22.90	46.73	46.57	23.19	0.00	30.16
NET INCOME	0.00	0.00	-91.38	-42.04	-29.36	0.00	-22.90	-46.73	-46.57	-23.19	0.00	517.24
NET INCOME TO DATE	0.00	0.00	-91.38	-133.42	-162.78	-162.78	-185.68	-232.41	-278.98	-302.17	-302.17	215.07

Note: Cost of production estimates are based on 2012 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Wheat			5.86	6.25	6.64	7.03	7.42	7.82	8.21	8.60	8.99	9.38	9.77
PERCENT	YIELD	UNIT	-----dollars-----										
50	35.00	bu	-117	-103	-89	-76	-62	-48	-35	-21	-7	5	19
			-143	-129	-115	-102	-88	-74	-61	-47	-33	-20	-6
60	42.00	bu	-78	-61	-45	-28	-12	3	20	36	53	69	86
			-104	-87	-71	-54	-38	-22	-5	10	27	43	60
70	49.00	bu	-39	-19	-0	18	37	56	75	95	114	133	152
			-65	-45	-26	-7	11	30	49	69	88	107	126
80	56.00	bu	0	21	43	65	87	109	131	153	175	197	219
			-25	-4	17	39	61	83	105	127	149	171	192
90	63.00	bu	39	63	88	113	137	162	186	211	236	260	285
			13	37	62	87	111	136	160	185	210	234	259
100	70.00	bu	78	105	132	160	187	215	242	269	297	324	351
			52	79	106	134	161	189	216	243	271	298	325
110	77.00	bu	117	147	177	207	237	267	297	328	358	388	418
			91	121	151	181	211	241	271	302	332	362	392
120	84.00	bu	156	189	222	254	287	320	353	386	419	451	484
			130	163	196	228	261	294	327	360	393	425	458
130	91.00	bu	195	231	266	302	337	373	408	444	480	515	551
			169	205	240	276	311	347	382	418	454	489	525
140	98.00	bu	234	272	311	349	387	426	464	502	541	579	617
			208	246	285	323	361	400	438	476	515	553	591
150	105.00	bu	273	314	355	396	437	478	519	561	602	643	684
			247	288	329	370	411	452	493	535	576	617	658

The top number in each cell is Returns Above Direct Expenses.
The bottom number in each cell is Returns Above Total Specified Expenses.
Only the product listed has been varied to calculate net returns.
Note: Cost of production estimates are based on 2012 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, 2013

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	259,000	300	8	13.64	11.60	47.74	26.97	86.31	108.04	194.36
Combine (300-349 hp)	325 hp	298,000	300	8	16.73	11.60	58.55	31.04	101.19	124.31	225.51
Combine (350-399 hp)	355 hp	316,000	300	8	18.27	11.60	63.94	32.91	108.46	131.82	240.28
Combine (400-449 hp)	425 hp	339,000	300	8	21.87	11.60	76.56	35.31	123.47	141.42	264.90
Combine (450-499hp)	475 hp	356,000	300	8	24.44	11.60	85.57	37.08	134.25	148.51	282.76
Cotton Stripper	173 hp	170,000	200	8	8.08	11.60	28.28	26.56	66.44	106.37	172.82
Tractor(20-39hp)CB	MFWD 30	28,100	600	8	1.54	11.60	5.40	0.87	17.88	5.37	23.25
Tractor(20-39hp)RB	MFWD 30	17,400	600	8	1.54	11.60	5.40	0.54	17.54	3.32	20.87
Tractor(40-59hp)CB	2WD 50	35,200	600	8	2.57	11.60	9.00	1.10	21.70	6.73	28.44
Tractor(40-59hp)CB	MFWD 50	36,700	600	8	2.57	11.60	9.00	1.14	21.75	7.02	28.77
Tractor(40-59hp)RB	2WD 50	20,500	600	8	2.57	11.60	9.00	0.64	21.24	3.92	25.16
Tractor(40-59hp)RB	MFWD 50	29,000	600	8	2.57	11.60	9.00	0.90	21.51	5.54	27.06
Tractor(60-89hp)CB	2WD 75	45,300	600	8	3.86	11.60	13.51	1.41	26.52	8.66	35.19
Tractor(60-89hp)CB	MFWD 75	49,400	600	8	3.86	11.60	13.51	1.54	26.65	9.44	36.10
Tractor(60-89hp)RB	2WD 75	33,600	600	8	3.86	11.60	13.51	1.05	26.16	6.42	32.58
Tractor(60-89hp)RB	MFWD 75	40,300	600	8	3.86	11.60	13.51	1.25	26.37	7.70	34.07
Tractor(90-119hp)CB	2WD 105	57,700	600	8	5.40	11.60	18.91	1.80	32.31	11.03	43.35
Tractor(90-119hp)CB	MFWD 105	74,700	600	8	5.40	11.60	18.91	2.33	32.85	14.28	47.13
Tractor(90-119hp)RB	2WD 105	45,800	600	8	5.40	11.60	18.91	1.43	31.94	8.76	40.70
Tractor(90-119hp)RB	MFWD 105	51,800	600	8	5.40	11.60	18.91	1.61	32.13	9.90	42.04
Tractor(120-139hp)CB	2WD 130	82,300	600	8	6.69	11.60	23.41	2.57	37.59	15.74	53.33
Tractor(120-139hp)CB	MFWD 130	101,000	600	8	6.69	11.60	23.41	3.15	38.17	19.32	57.49
Tractor(140-159hp)CB	2WD 150	131,000	600	8	7.72	11.60	27.02	4.09	42.71	25.05	67.77
Tractor(140-159hp)CB	MFWD 150	133,000	600	8	7.72	11.60	27.02	4.15	42.77	25.44	68.22
Tractor(160-179hp)CB	MFWD 170	144,000	600	8	8.75	11.60	30.62	4.50	46.72	28.79	75.51
Tractor(180-199hp)CB	MFWD 190	154,000	600	8	9.77	11.60	34.22	4.81	50.64	30.79	81.43
Tractor(200-249hp)CB	MFWD 225	208,000	600	8	11.58	11.60	40.53	6.50	58.63	41.58	100.22
Tractor(200-249hp)CB	Track 225	258,000	600	8	11.58	11.60	40.53	8.06	60.19	51.58	111.78
Tractor(250-349hp)CB	4WD 300	262,000	600	8	15.44	11.60	54.04	8.18	73.83	52.38	126.21
Tractor(250-349hp)CB	MFWD 300	247,000	600	8	15.44	11.60	54.04	7.71	73.36	49.38	122.74
Tractor(250-349hp)CB	Track 300	260,000	600	8	15.44	11.60	54.04	8.12	73.77	51.98	125.75
Tractor(350-449hp)CB	4WD 400	300,000	600	8	20.58	11.60	72.06	9.37	93.03	59.98	153.01
Tractor(350-449hp)CB	Track 400	345,000	600	8	20.58	11.60	72.06	10.78	94.44	68.97	163.42
Tractor(450-550hp)CB	4WD 500	343,000	600	8	25.73	11.60	90.07	10.71	112.39	68.57	180.97
Tractor(450-550hp)CB	Track 500	376,000	600	8	25.73	11.60	90.07	11.75	113.42	75.17	188.60
Utility Vehicle	800 CC	7,400	200	8	0.70	11.60	2.38	1.15	15.13	4.63	19.76
Utility Vehicle-mule	600 CC	7,100	200	8	0.50	11.60	1.70	1.10	14.40	4.44	18.85

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, 2013

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-----					
Backhoe	2WD Cab	73,000	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30(350)	350,000	200	8	18.01	0.327	6.76	20.64	17.90	45.30	71.70	117.01
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.32	11.84	10.75	27.92	43.06	70.99
Cotton Picker	4R-38(350)	382,000	200	8	18.01	0.257	5.32	16.25	15.38	36.96	61.62	98.58
Cotton Picker	4R2x1(350)	388,000	200	8	18.01	0.172	3.55	10.86	10.44	24.87	41.83	66.70
Cotton Picker	6R-30(355)	441,000	200	8	18.27	0.218	4.50	13.95	15.03	33.50	60.22	93.73
Cotton Picker	6R-38(355)	441,000	200	8	18.27	0.172	3.55	11.02	11.87	26.45	47.55	74.00
Cotton Picker/Module	4R-38(365)	515,000	200	8	18.78	0.257	5.32	16.95	20.74	43.01	83.07	126.09
Cotton Picker/Module	6R-30(365)	572,000	200	8	18.78	0.218	4.50	14.35	19.50	38.36	78.11	116.48
Cotton Picker/Module	6R-30(500)	609,000	200	8	25.73	0.218	4.50	19.65	20.76	44.93	83.17	128.10
Cotton Picker/Module	6R-38(365)	571,000	200	8	18.78	0.172	3.55	11.33	15.37	30.26	61.56	91.83
Cotton Picker/Module	6R-38(500)	610,000	200	8	25.73	0.172	3.55	15.52	16.42	35.50	65.77	101.27
Dry Applicator SP	70'300cuft	281,000	350	8	16.98	0.015	0.24	0.89	0.22	1.36	1.51	2.88
Sprayer 110Gal	30' 50hp	43,300	350	8	2.41	0.035	0.56	0.29	0.08	0.94	0.54	1.49
Sprayer 300-450gal	60' 125hp	103,000	350	8	5.66	0.017	0.28	0.34	0.09	0.73	0.64	1.38
Sprayer 300-450gal	80' 125hp	103,000	350	8	6.43	0.013	0.21	0.29	0.07	0.58	0.48	1.07
Sprayer 600-750gal	60' 175hp	161,000	350	8	9.00	0.017	0.28	0.55	0.15	0.99	1.01	2.00
Sprayer 600-825gal	80' 175hp	161,000	350	8	11.81	0.013	0.21	0.54	0.11	0.87	0.76	1.63
Sprayer 600-825gal	90' 250hp	237,000	350	8	12.73	0.011	0.18	0.52	0.14	0.86	0.99	1.85
Sprayer 800gal	100' 250hp	232,000	350	8	14.15	0.010	0.17	0.52	0.13	0.82	0.87	1.70
Sprayer 800gal	80' 250hp	233,000	350	8	12.86	0.013	0.21	0.59	0.16	0.97	1.10	2.07
Sprayer 1000-1400gal	90' 275hp	272,000	350	8	14.15	0.010	0.17	0.52	0.15	0.84	1.02	1.87
Sprayer 1000gal	100' 300hp	274,000	350	8	15.44	0.010	0.17	0.57	0.15	0.89	1.03	1.93
Sprayer 1200+gal	120' 300hp	286,000	350	8	15.44	0.008	0.14	0.47	0.13	0.75	0.90	1.65
Utility Vehicle	20'	7,400	200	8	0.70	0.052	0.85	0.12	0.06	1.03	0.24	1.28
Utility Vehicle	75"ropewic	7,100	200	8	0.50	0.170	2.75	0.29	0.18	3.23	0.75	3.98

Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Bed-Disk (Hipper)	4R-38	MFWD 150	7,700	160	10	0.147	1.71	3.98	0.28	0.61	6.60	0.76	3.75	11.12
Bed-Disk (Hipper)	6R-30	MFWD 170	10,700	160	10	0.125	1.45	3.82	0.33	0.56	6.17	0.89	3.59	10.67
Bed-Disk (Hipper)	6R-38	MFWD 170	12,600	160	10	0.098	1.14	3.02	0.31	0.44	4.92	0.83	2.84	8.59
Bed-Disk (Hipper)	8R-30	MFWD 190	14,800	160	10	0.093	1.08	3.20	0.34	0.45	5.09	0.93	2.88	8.91
Bed-Disk (Hipper)	8R-38 2x1	MFWD 190	27,700	160	10	0.049	0.57	1.68	0.34	0.23	2.84	0.91	1.51	5.27
Bed-Disk (Hipper)	10R-30	MFWD 225	22,900	160	10	0.075	0.87	3.04	0.42	0.48	4.82	1.15	3.11	9.10
Bed-Disk (Hipper)	10R-38	MFWD 225	23,700	160	10	0.059	0.68	2.39	0.35	0.38	3.81	0.94	2.45	7.22
Bed-Disk (Hipper)	12R-30	MFWD 225	27,900	160	10	0.062	0.72	2.53	0.43	0.40	4.10	1.17	2.59	7.87
Bed-Disk (Hipper)	12R-38	MFWD 225	27,700	160	10	0.049	0.57	1.99	0.34	0.32	3.23	0.91	2.05	6.20
Bed-Disk (Hipper)Fl	8R-38	MFWD 190	20,400	160	10	0.074	0.85	2.53	0.37	0.35	4.13	1.01	2.28	7.42
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	15,100	160	10	0.074	0.85	2.53	0.27	0.35	4.03	0.75	2.28	7.06
Bed-Disk w/roller	8R-30	MFWD 190	21,000	160	10	0.093	1.08	3.20	0.49	0.45	5.23	1.32	2.88	9.44
Bed-Disk w/roller	12R-30	MFWD 225	35,800	160	10	0.062	0.72	2.53	0.55	0.40	4.22	1.50	2.59	8.32
Bed-Disk w/roller	8R-38	MFWD 190	24,100	160	10	0.074	0.85	2.53	0.44	0.35	4.19	1.20	2.28	7.68
Bed-Middle Buster	4R-38	MFWD 150	10,800	160	8	0.228	2.64	6.17	0.57	0.94	10.34	1.84	5.81	18.00
Bed-Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.39	3.24	0.36	0.49	5.50	1.15	3.05	9.71
Bed-Middle Buster	8R-30	MFWD 190	20,781	160	8	0.114	1.32	3.90	0.55	0.54	6.33	1.77	3.51	11.63
Bed-Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.04	3.08	0.38	0.43	4.95	1.22	2.77	8.95
Bed-Middle Buster	8R-38 2x1	MFWD 190	29,200	160	8	0.060	0.69	2.05	0.41	0.28	3.45	1.31	1.85	6.62
Bed-Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.05	3.70	0.62	0.59	5.98	2.00	3.79	11.78
Bed-Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.83	2.92	0.54	0.46	4.76	1.73	2.99	9.49
Bed-Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.69	2.43	0.41	0.39	3.93	1.31	2.49	7.75
Bed-Paratill Fold	8R-38	MFWD 225	54,400	150	12	0.080	0.93	3.27	1.58	0.52	6.32	2.80	3.35	12.48
Bed-Paratill Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.62	2.17	1.34	0.34	4.49	2.37	2.23	9.10
Bed-Paratill Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.62	2.17	1.34	0.34	4.49	2.37	2.23	9.10
Bed-Paratill Rigid	4R-30	MFWD 225	14,800	150	12	0.204	2.37	8.28	1.09	1.32	13.07	1.93	8.49	23.50
Bed-Paratill Rigid	4R-38	MFWD 225	13,900	150	12	0.160	1.86	6.52	0.80	1.04	10.24	1.42	6.69	18.36
Bed-Paratill Rigid	6R-30	MFWD 225	20,100	150	12	0.136	1.58	5.52	0.98	0.88	8.97	1.74	5.66	16.39
Bed-Paratill Rigid	6R-38	MFWD 225	18,800	150	12	0.107	1.24	4.35	0.73	0.69	7.03	1.29	4.47	12.79
Bed-Paratill Rigid	8R-30	MFWD 225	28,100	150	12	0.102	1.18	4.14	1.03	0.66	7.02	1.83	4.24	13.11
Bed-Paratill Rigid	8R-38	MFWD 225	26,900	150	12	0.080	0.93	3.27	0.78	0.52	5.51	1.38	3.35	10.26
Bed-Paratill w/rol	4R-30	MFWD 225	14,100	150	12	0.204	2.37	8.28	1.04	1.32	13.02	1.84	8.49	23.35
Bed-Paratill w/rol	4R-38	MFWD 225	14,100	150	12	0.160	1.86	6.52	0.81	1.04	10.25	1.44	6.69	18.39
Bed-Paratill w/rol	6R-38	MFWD 225	18,600	150	12	0.107	1.24	4.35	0.72	0.69	7.02	1.27	4.47	12.77
Bed-Rip/Disk Fold.	8R-38	MFWD 190	32,200	300	20	0.073	0.84	2.50	0.11	0.35	3.81	0.57	2.24	6.64
Bed-Rip/Disk Fold.	12R-30	MFWD 225	48,200	300	20	0.061	0.71	2.49	0.14	0.40	3.76	0.72	2.56	7.04
Bed-Rip/Disk Fold.	12R-38	MFWD 225	48,100	300	20	0.046	0.53	1.87	0.11	0.30	2.82	0.54	1.92	5.28
Bed-Rip/Disk Rigid	4R-30	MFWD 190	13,700	300	20	0.184	2.14	6.32	0.12	0.88	9.48	0.61	5.69	15.79
Bed-Rip/Disk Rigid	4R-38	MFWD 190	13,700	300	20	0.146	1.70	5.02	0.10	0.70	7.53	0.48	4.51	12.53
Bed-Rip/Disk Rigid	6R-38	MFWD 190	21,400	300	20	0.097	1.12	3.33	0.10	0.46	5.03	0.50	2.99	8.53
Bed-Rip/Disk Rigid	8R-30	MFWD 190	26,900	300	20	0.139	1.61	4.75	0.18	0.66	7.22	0.91	4.27	12.41
Bed-Rip/Disk Rigid	8R-38	MFWD 190	26,900	300	20	0.073	0.84	2.50	0.09	0.35	3.79	0.47	2.24	6.52
Bed-Rip/Disk Rigid	6R-30	MFWD 190	21,400	300	20	0.123	1.42	4.21	0.13	0.59	6.37	0.64	3.79	10.81
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	19,300	150	12	0.107	1.24	4.35	0.74	0.69	7.05	1.32	4.47	12.85
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	23,000	150	12	0.080	0.93	3.27	0.67	0.52	5.40	1.18	3.35	9.95
Bed-Roll-Fold.	8R-38	MFWD 190	24,700	160	10	0.074	0.85	2.53	0.45	0.35	4.21	1.22	2.28	7.72
Bed-Roll-Fold.	12R-30	MFWD 225	26,500	160	10	0.062	0.72	2.53	0.41	0.40	4.07	1.11	2.59	7.79
Bed-Roll-Fold.	12R-38	MFWD 225	29,700	160	10	0.049	0.57	1.99	0.36	0.32	3.25	0.98	2.05	6.29
Bed-Roll-Fold.	16R-30	MFWD 225	30,900	160	10	0.046	0.54	1.90	0.36	0.30	3.11	0.97	1.94	6.03
Bed-Roll-Rigid	8R-38	MFWD 190	18,400	160	10	0.074	0.85	2.53	0.34	0.35	4.09	0.91	2.28	7.29
Blade-Box	6'-7'	2WD 130	1,030	200	20	0.020	0.23	0.46	0.00	0.05	0.76	0.00	0.31	1.08
Blade-Box	8'-10'	2WD 50	4,880	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	6,970	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	1,090	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	3,030	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	6,220	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-30(325)	MFWD 190	26,200	200	10	0.327	3.79	11.20	2.14	1.57	18.72	4.44	10.08	33.24
Boll Buggy	4R-38(255)	MFWD 190	26,200	200	10	0.257	2.99	8.82	1.68	1.24	14.74	3.49	7.93	26.17
Boll Buggy	4R-38(325)	MFWD 190	26,200	200	10	0.257	2.99	8.82	1.68	1.24	14.74	3.49	7.93	26.17
Boll Buggy	4R2x1(350)	MFWD 190	26,200	200	10	0.172	1.99	5.89	1.12	0.82	9.85	2.33	5.30	17.49
Boll Buggy	6R-30(325)	MFWD 190	26,200	200	10	0.218	2.53	7.47	1.42	1.05	12.48	2.96	6.72	22.16
Boll Buggy	6R-38(330)	MFWD 190	26,200	200	10	0.172	1.99	5.89	1.12	0.82	9.85	2.33	5.30	17.49
Boll Buggy-Stripper	13' Bcast	MFWD 150	26,200	200	10	0.251	2.92	6.80	1.64	1.04	12.42	3.41	6.40	22.24
Boll Buggy-Stripper	16' Bcast	MFWD 150	26,200	200	10	0.204	2.37	5.52	1.34	0.85	10.09	2.77	5.20	18.07
Boll Buggy-Stripper	19' Bcast	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	26,200	200	10	0.218	2.53	5.89	1.42	0.90	10.76	2.96	5.55	19.28
Boll Buggy-Stripper	4R-36	MFWD 150	26,200	200	10	0.272	3.16	7.37	1.78	1.13	13.45	3.70	6.94	24.10
Boll Buggy-Stripper	4R-38	MFWD 150	26,200	200	10	0.257	2.99	6.96	1.68	1.07	12.71	3.49	6.55	22.77
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	5R-30	MFWD 150	26,200	200	10	0.261	3.03	7.07	1.71	1.08	12.91	3.55	6.66	23.13
Boll Buggy-Stripper	5R-38	MFWD 150	26,200	200	10	0.207	2.40	5.59	1.35	0.86	10.22	2.81	5.27	18.30
Boll Buggy-Stripper	6R-30	MFWD 150	26,200	200	10	0.218	2.53	5.89	1.42	0.90	10.76	2.96	5.55	19.28
Boll Buggy-Stripper	6R-38	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	8R-30	MFWD 150	26,200	200	10	0.163	1.89	4.42	1.07	0.68	8.07	2.22	4.16	14.46
Boll Buggy-Stripper	8R-36/38	MFWD 150	26,200	200	10	0.129	1.50	3.49	0.84	0.53	6.38	1.75	3.29	11.43
Chisel Plow-Folding	16'	2WD 130	21,300	150	12	0.115	1.34	2.70	0.88	0.29	5.23	1.57	1.81	8.62
Chisel Plow-Folding	24'	MFWD 190	33,200	150	12	0.076	0.88	2.61	0.91	0.36	4.78	1.62	2.35	8.76
Chisel Plow-Folding	32'	MFWD 225	37,000	150	12	0.057	0.67	2.34	0.77	0.37	4.15	1.36	2.40	7.92

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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	42'	MFWD 225	43,700	150	12	0.044	0.51	1.78	0.69	0.28	3.27	1.22	1.83	6.33
Chisel Plow-Folding	50'	MFWD 225	67,000	150	10	0.036	0.42	1.49	1.07	0.24	3.24	1.77	1.53	6.55
Chisel Plow-Folding	61'	MFWD 225	71,300	150	12	0.030	0.35	1.22	0.78	0.19	2.55	1.38	1.26	5.19
Chisel Plow-Rigid	10'	MFWD 170	7,300	150	12	0.184	2.14	5.66	0.48	0.83	9.12	0.86	5.32	15.31
Chisel Plow-Rigid	15'	2WD 130	8,600	150	12	0.123	1.42	2.88	0.38	0.31	5.01	0.67	1.94	7.63
Chisel Plow-Rigid	20'	MFWD 225	9,600	150	12	0.102	1.19	4.16	0.35	0.66	6.37	0.63	4.27	11.27
Chisel Plow-Rigid	24'	MFWD 190	10,000	150	12	0.077	0.89	2.63	0.27	0.37	4.17	0.49	2.37	7.04
Chisel-Harrow	21 shank	2WD 190	12,100	150	12	0.088	1.02	3.01	0.38	0.30	4.72	0.68	1.93	7.33
Chisel-Harrow	27 shank	MFWD 225	13,600	150	12	0.068	0.79	2.77	0.33	0.44	4.35	0.59	2.84	7.79
Coulter-Chisel-Harro	21 shank	2WD 190	18,800	150	12	0.088	1.02	3.01	0.59	0.30	4.93	1.05	1.93	7.92
Coulter-Chisel-Harro	27 shank	MFWD 225	23,500	150	12	0.068	0.79	2.77	0.58	0.44	4.59	1.02	2.84	8.47
Cult & PD Ridge Till	8R-30	2WD 150	30,000	200	12	0.110	1.77	2.97	1.58	0.45	6.77	1.63	2.75	11.16
Cult & PD Ridge Till	12R-30	2WD 190	43,100	200	12	0.073	1.18	2.51	1.51	0.25	5.45	1.56	1.61	8.63
Cultivate	4R-30	2WD 105	10,800	150	10	0.206	2.39	3.90	0.59	0.37	7.25	1.59	2.27	11.13
Cultivate	4R-38	2WD 105	10,600	150	10	0.162	1.88	3.07	0.45	0.23	5.64	1.23	1.42	8.30
Cultivate	6R-30	MFWD 150	16,000	150	10	0.137	1.59	3.71	0.58	0.57	6.46	1.57	3.49	11.54
Cultivate	6R-38	MFWD 150	16,000	150	10	0.108	1.25	2.93	0.46	0.45	5.10	1.24	2.76	9.11
Cultivate	8R-30	MFWD 190	19,700	150	10	0.103	1.19	3.53	0.54	0.49	5.76	1.45	3.17	10.39
Cultivate	8R-38	MFWD 190	21,200	150	10	0.073	0.85	2.52	0.41	0.35	4.14	1.11	2.26	7.53
Cultivate	8R-38 2x1	MFWD 190	30,600	150	10	0.054	0.62	1.85	0.44	0.26	3.19	1.19	1.67	6.05
Cultivate	10R-30	MFWD 225	26,900	150	10	0.082	0.95	3.34	0.59	0.53	5.42	1.59	3.43	10.45
Cultivate	12R-30	MFWD 225	35,800	150	10	0.068	0.79	2.78	0.65	0.44	4.68	1.76	2.85	9.31
Cultivate	12R-38	MFWD 225	35,500	150	10	0.054	0.62	2.20	0.51	0.35	3.69	1.38	2.25	7.33
Cultivate	16R-30	MFWD 225	42,600	150	10	0.051	0.59	2.08	0.58	0.33	3.60	1.57	2.14	7.32
Cultivate & Post	4R-30	2WD 105	16,100	150	10	0.220	3.54	4.16	0.94	0.31	8.96	2.53	1.92	13.43
Cultivate & Post	4R-38	2WD 105	15,900	150	10	0.173	2.79	3.27	0.73	0.24	7.05	1.97	1.51	10.54
Cultivate & Post	6R-30	MFWD 150	21,300	150	10	0.146	2.36	3.96	0.83	0.60	7.77	2.23	3.73	13.74
Cultivate & Post	6R-38	MFWD 150	21,400	150	10	0.115	1.86	3.12	0.66	0.48	6.13	1.77	2.94	10.86
Cultivate & Post	8R-30	MFWD 190	25,000	150	10	0.110	1.77	3.76	0.73	0.52	6.80	1.97	3.38	12.16
Cultivate & Post	8R-38	MFWD 190	26,500	150	10	0.086	1.40	2.97	0.61	0.41	5.41	1.65	2.67	9.74
Cultivate & Post	8R-38 2x1	MFWD 190	37,500	150	10	0.057	0.93	1.98	0.57	0.27	3.77	1.55	1.78	7.11
Cultivate & Post	10R-30	MFWD 225	32,200	150	10	0.088	1.41	3.56	0.75	0.57	6.31	2.03	3.65	12.00
Cultivate & Post	12R-30	MFWD 225	41,100	150	10	0.073	1.18	2.97	0.80	0.47	5.43	2.16	3.04	10.64
Cultivate & Post	12R-38	MFWD 225	42,500	150	10	0.057	0.93	2.34	0.65	0.37	4.31	1.76	2.40	8.48
Cultivate & Post	16R-30	MFWD 225	49,400	150	10	0.055	0.88	2.22	0.72	0.35	4.19	1.94	2.28	8.43
Cultivate Ridge Till	8R-30	2WD 170	24,700	200	12	0.103	1.19	3.15	1.22	0.38	5.95	1.26	2.45	9.67
Cultivate Ridge Till	12R-30	2WD 190	37,700	200	12	0.068	0.79	2.35	1.24	0.23	4.62	1.28	1.51	7.42
Disk & Incorporate	14'	2WD 130	27,300	200	10	0.149	2.41	3.50	1.22	0.38	7.52	2.19	2.35	12.08
Disk & Incorporate	20'	MFWD 190	39,800	180	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disk & Incorporate	24'	MFWD 190	40,200	200	10	0.087	1.40	2.98	1.05	0.42	5.86	1.88	2.68	10.44
Disk & Incorporate	28'	MFWD 225	46,700	200	10	0.074	1.20	3.03	1.04	0.48	5.77	1.87	3.11	10.76
Disk & Incorporate	32'	MFWD 225	54,400	200	10	0.065	1.05	2.65	1.06	0.42	5.20	1.91	2.72	9.84
Disk Harrow	14'	2WD 130	21,900	180	10	0.140	1.62	3.28	0.85	0.36	6.12	1.83	2.20	10.17
Disk Harrow	20'	MFWD 190	34,500	180	10	0.098	1.13	3.36	0.94	0.47	5.91	2.02	3.02	10.96
Disk Harrow	24'	MFWD 190	34,900	180	10	0.081	0.94	2.80	0.79	0.39	4.93	1.70	2.52	9.16
Disk Harrow	28'	MFWD 225	41,400	180	10	0.070	0.81	2.84	0.80	0.45	4.91	1.73	2.91	9.57
Disk Harrow	32'	MFWD 225	47,400	180	10	0.061	0.71	2.48	0.80	0.39	4.40	1.73	2.55	8.69
Disk Harrow	42'	MFWD 225	88,900	180	10	0.046	0.54	1.89	1.15	0.30	3.89	2.48	1.94	8.32
Disk Harrow 40-100hp	14'	2WD 75	15,300	180	10	0.140	1.62	1.89	0.59	0.14	4.26	1.28	0.90	6.45
Disk Heavy	14'	MFWD 150	21,900	180	10	0.145	1.69	3.94	0.88	0.60	7.13	1.90	3.71	12.75
Disk Heavy	20'	MFWD 170	34,500	180	10	0.097	1.12	2.97	0.93	0.43	5.47	2.00	2.80	10.28
Disk Heavy	28'	MFWD 190	41,400	180	10	0.075	0.87	2.59	0.87	0.36	4.70	1.87	2.33	8.90
Disk Ripper	15'	MFWD 225	37,500	180	10	0.136	1.58	5.52	1.41	0.88	9.40	3.05	5.66	18.12
Ditcher	2WD 130		4,630	200	10	0.020	0.23	0.46	0.03	0.05	0.78	0.04	0.31	1.15
Ditcher (1m/160a)	2WD 130		4,630	200	10	0.009	0.10	0.21	0.01	0.02	0.36	0.02	0.14	0.54
Fert Appl (Liquid)	4R-38	MFWD 150	12,800	150	8	0.154	2.49	4.17	1.31	0.64	8.63	1.51	3.93	14.08
Fert Appl (Liquid)	6R-30	MFWD 170	15,700	150	8	0.130	2.11	4.01	1.37	0.58	8.08	1.57	3.77	13.42
Fert Appl (Liquid)	6R-38	MFWD 170	13,800	150	8	0.103	1.66	3.16	0.95	0.46	6.24	1.09	2.97	10.31
Fert Appl (Liquid)	8R-30	MFWD 190	13,700	150	8	0.098	1.58	3.36	0.89	0.47	6.31	1.02	3.02	10.36
Fert Appl (Liquid)	8R-38	MFWD 190	16,600	150	8	0.077	1.25	2.65	0.85	0.37	5.14	0.98	2.39	8.51
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	17,000	150	8	0.051	0.83	1.76	0.58	0.24	3.43	0.67	1.59	5.70
Fert Appl (Liquid)	10R-30	MFWD 225	17,100	150	8	0.078	1.26	3.18	0.89	0.51	5.85	1.02	3.26	10.15
Fert Appl (Liquid)	10R-38	MFWD 225	19,600	150	8	0.061	0.99	2.51	0.80	0.40	4.72	0.92	2.57	8.22
Fert Appl (Liquid)	12R-30	MFWD 225	17,500	150	8	0.078	1.26	3.18	0.91	0.51	5.87	1.05	3.26	10.19
Fert Appl (Liquid)	12R-38	MFWD 225	17,000	150	8	0.051	0.83	2.09	0.58	0.33	3.85	0.67	2.14	6.67
Field Cult & Inc	42'	MFWD 225	56,100	100	10	0.037	0.60	1.53	0.52	0.24	2.91	2.27	1.57	6.76
Field Cult & Inc	50'	MFWD 225	69,000	100	10	0.031	0.51	1.28	0.54	0.20	2.55	2.35	1.31	6.22
Field Cult & Inc Fld	24'	MFWD 170	30,100	100	10	0.066	1.06	2.02	0.49	0.29	3.88	2.13	1.90	7.92
Field Cult & Inc Fld	32'	MFWD 190	37,200	100	10	0.049	0.79	1.69	0.46	0.23	3.19	1.98	1.52	6.70
Field Cult & Inc Rdg	12'	2WD 150	15,200	100	10	0.132	2.13	3.57	0.50	0.54	6.74	2.16	3.31	12.22
Field Cultivate Fld	24'	MFWD 170	24,700	100	10	0.062	0.72	1.90	0.38	0.27	3.29	1.65	1.79	6.73
Field Cultivate Fld	32'	MFWD 190	31,900	100	10	0.046	0.54	1.59	0.37	0.22	2.73	1.60	1.43	5.77
Field Cultivate Fld	42'	MFWD 225	49,100	100	10	0.035	0.41	1.44	0.43	0.23	2.52	1.87	1.47	5.87
Field Cultivate Fld	50'	MFWD 225	60,100	100	10	0.029	0.34	1.21	0.44	0.19	2.19	1.92	1.24	5.37
Field Cultivate Rdg	12'	2WD 150	9,890	100	10	0.124	1.44	3.36	0.30	0.50	5.62	1.32	3.11	10.06
Grain Cart Corn	500 bu	MFWD 190	25,100	200	12	0.031	0.37	1.09	0.21	0.15	1.83	0.38	0.98	3.20
Grain Cart Corn	700 bu	MFWD 190	29,900	200	12	0.025	0.29	0.85	0.20	0.12	1.46	0.35	0.76	2.59
Grain Cart Corn	1000 bu	MFWD 225	43,800	200	12	0.025	0.29	1.01	0.29	0.16	1.76	0.52	1.03	3.32
Grain Cart Rice	500 bu	MFWD 190	25,100	200	12	0.062	0.72	2.13	0.42	0.30	3.58	0.75	1.92	6.26

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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 Rice	700 bu	MFWD 190	29,900	200	12	0.055	0.63	1.88	0.44	0.26	3.23	0.78	1.69	5.71
Grain Cart Rice	1000 bu	MFWD 190	43,800	200	12	0.045	0.53	1.56	0.54	0.22	2.86	0.96	1.41	5.23
Grain Cart Soybean	500 bu	MFWD 190	25,100	200	12	0.025	0.29	0.87	0.17	0.12	1.46	0.30	0.78	2.55
Grain Cart Soybean	700 bu	MFWD 190	29,900	200	12	0.021	0.24	0.72	0.17	0.10	1.24	0.30	0.65	2.20
Grain Cart Soybean	1000 bu	MFWD 190	43,800	200	12	0.021	0.24	0.72	0.25	0.10	1.32	0.44	0.65	2.42
Grain Cart Wht/Sor	500 bu	MFWD 190	25,100	200	12	0.025	0.29	0.87	0.17	0.12	1.46	0.30	0.78	2.55
Grain Cart Wht/Sor	700 bu	MFWD 190	29,900	200	12	0.021	0.24	0.72	0.17	0.10	1.24	0.30	0.65	2.20
Grain Cart Wht/Sor	1000 bu	MFWD 190	43,800	200	12	0.021	0.24	0.72	0.25	0.10	1.32	0.44	0.65	2.42
Grain Drill	8'	2WD 130	19,000	150	8	0.235	4.86	5.52	1.67	0.60	12.67	3.27	3.71	19.65
Grain Drill	10'	2WD 130	22,700	150	8	0.188	3.89	4.41	1.60	0.48	10.40	3.12	2.96	16.49
Grain Drill	12'	2WD 130	22,400	150	8	0.157	3.24	3.68	1.31	0.40	8.65	2.57	2.47	13.69
Grain Drill	15'	MFWD 150	28,000	150	8	0.125	2.59	3.39	1.31	0.52	7.83	2.57	3.19	13.60
Grain Drill	20'	MFWD 170	36,700	150	8	0.094	1.94	2.88	1.29	0.42	6.55	2.52	2.71	11.80
Grain Drill	24'	MFWD 190	58,100	150	8	0.078	1.62	2.68	1.71	0.37	6.40	3.33	2.41	12.15
Grain Drill	30'	MFWD 225	61,300	150	8	0.062	1.29	2.54	1.44	0.40	5.70	2.81	2.61	11.12
Grain Drill	35'	MFWD 225	78,200	150	8	0.053	1.11	2.18	1.58	0.35	5.22	3.07	2.24	10.54
Grain Drill & Pre	8'	2WD 130	24,300	150	8	0.253	5.24	5.94	2.31	0.65	14.15	4.50	3.99	22.65
Grain Drill & Pre	10'	2WD 130	28,100	150	8	0.203	4.19	4.75	2.13	0.52	11.61	4.16	3.19	18.98
Grain Drill & Pre	12'	2WD 130	27,700	150	8	0.169	3.49	3.96	1.75	0.43	9.65	3.42	2.66	15.74
Grain Drill & Pre	15'	MFWD 150	33,300	150	8	0.135	2.79	3.65	1.69	0.56	8.70	3.29	3.44	15.44
Grain Drill & Pre	20'	MFWD 170	42,100	150	8	0.101	2.09	3.10	1.60	0.45	7.26	3.12	2.92	13.31
Grain Drill & Pre	24'	MFWD 190	63,500	150	8	0.084	1.74	2.89	2.01	0.40	7.06	3.92	2.60	13.59
Grain Drill & Pre	30'	MFWD 225	66,700	150	8	0.067	1.39	2.74	1.69	0.43	6.27	3.29	2.81	12.38
Grain Drill & Pre	35'	MFWD 225	83,500	150	8	0.058	1.19	2.35	1.81	0.37	5.74	3.53	2.41	11.69
Grain Drill & Pre T	8R-38	MFWD 225	45,700	150	8	0.062	1.29	2.54	1.07	0.40	5.33	2.09	2.61	10.04
Harrow - Rigid	21'	2WD 150	4,640	200	10	0.073	0.85	1.99	0.12	0.30	3.27	0.18	1.85	5.31
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.12	3.32	0.16	0.46	5.08	0.26	2.98	8.33
Harrow - Folding	24'	MFWD 190	11,900	200	10	0.064	0.75	2.21	0.26	0.31	3.54	0.41	1.99	5.95
Harrow - Folding	30'	MFWD 190	12,900	200	10	0.051	0.60	1.77	0.23	0.24	2.85	0.35	1.59	4.80
Harrow - Folding	40'	MFWD 190	16,200	200	10	0.038	0.45	1.32	0.22	0.18	2.18	0.33	1.19	3.71
Harrow - Folding	48'	MFWD 225	20,000	200	10	0.032	0.37	1.31	0.22	0.21	2.12	0.34	1.34	3.81
Harrow - Rigid	13'	2WD 130	3,430	200	10	0.119	1.38	2.79	0.14	0.30	4.63	0.22	1.88	6.73
Header - Corn	6R-30	265 hp	40,700	300	8	0.170	1.97	8.12	1.73	4.59	16.43	2.65	18.39	37.48
Header - Corn	6R-38	265 hp	41,800	300	8	0.134	1.55	6.41	1.40	3.62	13.00	2.14	14.52	29.68
Header - Corn	8R-30	265 hp	52,600	300	8	0.127	1.48	6.09	1.67	3.44	12.70	2.56	13.79	29.07
Header - Corn	8R-38	325 hp	54,100	300	8	0.100	1.17	5.91	1.36	3.13	11.58	2.08	12.55	26.22
Header - Corn	12R-20	325 hp	73,800	300	8	0.127	1.48	7.47	2.35	3.96	15.28	3.60	15.87	34.76
Header - Corn	12R-30	325 hp	82,200	300	8	0.085	0.98	4.98	1.74	2.64	10.36	2.67	10.58	23.62
Header - Draper (CL)	25' Rigid	265 hp	50,100	300	8	0.203	2.35	9.69	2.33	5.47	19.86	3.71	21.94	45.52
Header - Draper (CL)	30' Rigid	325 hp	55,500	300	8	0.169	1.96	9.90	2.15	5.25	19.27	3.43	21.03	43.74
Header - Draper (CL)	36' Rigid	355 hp	59,400	300	8	0.141	1.63	9.01	1.91	4.64	17.21	3.06	18.59	38.86
Header - Draper (SL)	25' Rigid	325 hp	50,100	300	8	0.176	2.04	10.30	2.02	5.46	19.83	3.22	21.87	44.93
Header - Draper (SL)	30' Rigid	325 hp	55,500	300	8	0.146	1.70	8.58	1.86	4.55	16.70	2.97	18.23	37.91
Header - Draper (SL)	36' Rigid	355 hp	59,400	300	8	0.122	1.41	7.81	1.66	4.02	14.91	2.65	16.11	33.68
Header - Rice (CL)	25' Rigid	325 hp	51,600	300	8	0.253	2.94	14.86	3.27	7.87	28.96	5.01	31.55	65.53
Header - Rice (CL)	30' Rigid	325 hp	59,000	300	8	0.211	2.45	12.38	3.12	6.56	24.52	4.77	26.29	55.60
Header - Rice (SL)	25' Rigid	325 hp	51,600	300	8	0.220	2.55	12.88	2.83	6.82	25.10	4.34	27.34	56.79
Header - Rice (SL)	30' Rigid	325 hp	59,000	300	8	0.183	2.12	10.73	2.70	5.69	21.25	4.13	22.79	48.18
Header -RiceStrp(CL)	20'	265 hp	44,000	300	8	0.253	2.94	12.11	2.79	6.84	24.70	4.27	27.42	56.40
Header -RiceStrp(CL)	24'	325 hp	48,300	300	8	0.211	2.45	12.38	2.55	6.56	23.96	3.90	26.29	54.16
Header -RiceStrp(CL)	32'	325 hp	53,300	300	8	0.158	1.84	9.28	2.11	4.92	18.16	3.23	19.72	41.12
Header -RiceStrp(SL)	20'	265 hp	44,000	300	8	0.220	2.55	10.50	2.42	5.93	21.41	3.70	23.77	48.88
Header -RiceStrp(SL)	24'	325 hp	48,300	300	8	0.183	2.12	10.73	2.21	5.69	20.76	3.38	22.79	46.94
Header -RiceStrp(SL)	32'	325 hp	53,300	300	8	0.137	1.59	8.05	1.83	4.26	15.74	2.80	17.09	35.64
Header -Soybean	22' Flex	265 hp	27,700	300	8	0.116	1.34	5.54	0.80	3.13	10.82	1.23	12.54	24.60
Header -Soybean	25' Flex	325 hp	29,800	300	8	0.102	1.18	5.98	0.76	3.17	11.10	1.16	12.70	24.96
Header -Soybean	30' Flex	325 hp	26,700	300	8	0.085	0.98	4.98	0.56	2.64	9.18	0.86	10.58	20.63
Header -Soybean	35' Flex	355 hp	39,500	300	8	0.072	0.84	4.66	0.72	2.40	8.63	1.10	9.62	19.35
Header Wheat/Sorghum	22' Rigid	265 hp	21,900	300	8	0.116	1.34	5.54	0.63	3.13	10.65	0.97	12.54	24.17
Header Wheat/Sorghum	25' Rigid	325 hp	25,600	300	8	0.102	1.18	5.98	0.65	3.17	10.99	1.00	12.70	24.69
Header Wheat/Sorghum	30' Rigid	325 hp	28,500	300	8	0.085	0.98	4.98	0.60	2.64	9.22	0.92	10.58	20.73
Header-Cotton Bcast	13'	173 hp	19,400	200	8	0.251	5.20	7.12	0.91	6.68	19.92	2.80	26.78	49.52
Header-Cotton-Bcast	16'	173 hp	21,600	200	8	0.204	4.22	5.78	0.82	5.43	16.27	2.53	21.76	40.57
Header-Cotton-Bcast	19'	173 hp	23,900	200	8	0.172	3.55	4.87	0.77	4.57	13.78	2.36	18.33	34.47
Header-Cotton-Brush	4R-30 2x1	173 hp	32,500	200	8	0.218	4.50	6.17	1.32	5.79	17.80	4.07	23.21	45.09
Header-Cotton-Brush	4R-36	173 hp	32,200	200	8	0.272	5.63	7.71	1.64	7.24	22.24	5.04	29.02	56.30
Header-Cotton-Brush	4R-38	173 hp	32,100	200	8	0.257	5.32	7.29	1.55	6.84	21.01	4.74	27.42	53.18
Header-Cotton-Brush	4R-38 2x1	173 hp	34,000	200	8	0.172	3.55	4.87	1.09	4.57	14.10	3.36	18.33	35.80
Header-Cotton-Brush	5R-30	173 hp	40,400	200	8	0.261	5.41	7.40	1.98	6.95	21.75	6.07	27.86	55.69
Header-Cotton-Brush	5R-38	173 hp	41,900	200	8	0.207	4.28	5.85	1.62	5.50	17.27	4.98	22.04	44.29
Header-Cotton-Brush	6R-30	173 hp	49,800	200	8	0.218	4.50	6.17	2.03	5.79	18.51	6.23	23.21	47.97
Header-Cotton-Brush	6R-38	173 hp	51,300	200	8	0.172	3.55	4.87	1.65	4.57	14.66	5.07	18.33	38.07
Header-Cotton-Brush	8R-30	173 hp	68,700	200	8	0.163	3.38	4.62	2.10	4.34	14.46	6.45	17.41	38.33
Header-Cotton-Brush	8R-36/38	173 hp	70,100	200	8	0.129	2.67	3.65	1.70	3.43	11.47	5.20	13.76	30.44
Land Plane	50'x16'	MFWD 190	11,300	200	10	0.151	1.75	5.19	0.34	0.72	8.02	0.92	4.66	13.61
Levee Pull & Seed	8 Blade	MFWD 170	8,130	100	10	0.003	0.04	0.10	0.00	0.01	0.17	0.03	0.10	0.30
Levee Pull (1m/80a)	8 blade	MFWD 170	6,800	100	10	0.003	0.04	0.10	0.00	0.01	0.17	0.02	0.10	0.30
Levee Splitter (1/80	32"	MFWD 150	3,280	100	10	0.004	0.04	0.11	0.00	0.01	0.18	0.01	0.10	0.30

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Module Builder	4R-30(325)	MFWD 190	31,300	200	10	0.327	6.76	11.20	2.56	1.57	22.10	5.30	10.08	37.49
Module Builder	4R-38(255)	MFWD 190	31,300	200	10	0.257	5.32	8.82	2.01	1.24	17.40	4.17	7.93	29.52
Module Builder	4R-38(325)	MFWD 190	31,300	200	10	0.257	5.32	8.82	2.01	1.24	17.40	4.17	7.93	29.52
Module Builder	4R2x1(350)	MFWD 190	31,300	200	10	0.172	3.55	5.89	1.34	0.82	11.63	2.79	5.30	19.73
Module Builder	6R-30(325)	MFWD 190	31,300	200	10	0.218	4.50	7.47	1.70	1.05	14.73	3.53	6.72	24.99
Module Builder	6R-38(330)	MFWD 190	31,300	200	10	0.172	3.55	5.89	1.34	0.82	11.63	2.79	5.30	19.73
Module Builder-Strip	13' Bcast	MFWD 150	31,300	200	10	0.251	5.20	6.80	1.97	1.04	15.02	4.08	6.40	25.51
Module Builder-Strip	16' Bcast	MFWD 150	31,300	200	10	0.204	4.22	5.52	1.60	0.85	12.20	3.31	5.20	20.73
Module Builder-Strip	19' Bcast	MFWD 150	31,300	200	10	0.172	3.55	4.65	1.34	0.71	10.28	2.79	4.38	17.45
Module Builder-Strip	4R-30 2x1	MFWD 150	31,300	200	10	0.218	4.50	5.89	1.70	0.90	13.02	3.53	5.55	22.11
Module Builder-Strip	4R-36	MFWD 150	31,300	200	10	0.272	5.63	7.37	2.13	1.13	16.27	4.42	6.94	27.64
Module Builder-Strip	4R-38	MFWD 150	31,300	200	10	0.257	5.32	6.96	2.01	1.07	15.38	4.17	6.55	26.11
Module Builder-Strip	4R-38 2x1	MFWD 150	31,300	200	10	0.172	3.55	4.65	1.34	0.71	10.28	2.79	4.38	17.45
Module Builder-Strip	5R-30	MFWD 150	31,300	200	10	0.261	5.41	7.07	2.04	1.08	15.62	4.24	6.66	26.53
Module Builder-Strip	5R-38	MFWD 150	31,300	200	10	0.207	4.28	5.59	1.62	0.86	12.36	3.35	5.27	20.99
Module Builder-Strip	6R-30	MFWD 150	31,300	200	10	0.218	4.50	5.89	1.70	0.90	13.02	3.53	5.55	22.11
Module Builder-Strip	6R-38	MFWD 190	31,300	200	10	0.172	3.55	5.89	1.34	0.82	11.63	2.79	5.30	19.73
Module Builder-Strip	8R-36/38	MFWD 190	31,300	200	10	0.129	2.67	4.42	1.01	0.62	8.73	2.09	3.98	14.81
NT Grain Drill	6'	MFWD 170	19,800	150	8	0.327	6.76	10.02	2.43	1.47	20.69	4.73	9.42	34.85
NT Grain Drill	10'	2WD 130	30,300	150	8	0.235	4.86	5.52	2.67	0.60	13.67	5.21	3.71	22.60
NT Grain Drill	12'	2WD 130	38,500	150	8	0.163	3.38	3.83	2.36	0.42	9.99	4.60	2.57	17.18
NT Grain Drill	15'	MFWD 150	42,700	150	8	0.130	2.70	3.53	2.09	0.54	8.88	4.08	3.33	16.30
NT Grain Drill	20'	MFWD 170	60,400	150	8	0.098	2.02	3.00	2.22	0.44	7.70	4.33	2.82	14.86
NT Grain Drill	24'	MFWD 190	78,600	150	8	0.081	1.69	2.80	2.41	0.39	7.29	4.69	2.52	14.51
NT Grain Drill	30'	MFWD 225	91,800	150	8	0.065	1.35	2.65	2.25	0.42	6.68	4.39	2.72	13.80
NT Grain Drill & Pre	6'	MFWD 170	25,200	150	8	0.352	7.28	10.79	3.33	1.52	22.99	6.49	10.15	39.64
NT Grain Drill & Pre	10'	2WD 130	35,600	150	8	0.211	4.37	4.95	2.82	0.54	12.69	5.50	3.33	21.52
NT Grain Drill & Pre	12'	2WD 130	43,900	150	8	0.176	3.64	4.12	2.90	0.45	11.12	5.65	2.77	19.55
NT Grain Drill & Pre	15'	MFWD 150	48,100	150	8	0.141	2.91	3.81	2.54	0.58	9.85	4.95	3.58	18.39
NT Grain Drill & Pre	20'	MFWD 170	65,700	150	8	0.105	2.18	3.23	2.60	0.47	8.50	5.07	3.04	16.62
NT Grain Drill & Pre	24'	MFWD 190	83,900	150	8	0.088	1.82	3.01	2.77	0.42	8.03	5.40	2.71	16.15
NT Grain Drill & Pre	30'	MFWD 225	97,100	150	8	0.070	1.45	2.85	2.56	0.45	7.34	5.00	2.93	15.27
NT Plant&Pre-Folding	8R-38	MFWD 170	46,000	150	8	0.083	1.72	2.56	1.44	0.37	6.10	2.80	2.40	11.32
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	72,400	150	8	0.055	1.15	1.70	1.51	0.25	4.61	2.94	1.60	9.16
NT Plant&Pre-Folding	12R-20	MFWD 190	69,800	150	8	0.105	2.18	3.62	2.76	0.50	9.08	5.39	3.25	17.73
NT Plant&Pre-Folding	12R-30	MFWD 190	74,200	150	8	0.070	1.45	2.41	1.96	0.33	6.17	3.82	2.17	12.16
NT Plant&Pre-Folding	12R-38	MFWD 190	72,400	150	8	0.055	1.15	1.90	1.51	0.26	4.83	2.94	1.71	9.49
NT Plant&Pre-Folding	16R-30	MFWD 190	96,700	150	8	0.052	1.09	1.81	1.91	0.25	5.07	3.73	1.62	10.43
NT Plant&Pre-Folding	23R-15	MFWD 190	121,000	150	8	0.073	1.51	2.51	3.33	0.35	7.71	6.49	2.26	16.47
NT Plant&Pre-Folding	24R-15	MFWD 225	129,000	150	8	0.070	1.45	2.85	3.41	0.45	8.18	6.64	2.93	17.76
NT Plant&Pre-Folding	24R-20	MFWD 190	135,000	150	8	0.052	1.09	1.81	2.67	0.25	5.83	5.21	1.62	12.67
NT Plant&Pre-Folding	24R-30	MFWD 190	157,000	150	8	0.035	0.72	1.20	2.07	0.16	4.18	4.04	1.08	9.31
NT Plant&Pre-Folding	31R-15	MFWD 225	147,000	150	8	0.054	1.12	2.21	3.01	0.35	6.71	5.87	2.27	14.85
NT Plant&Pre-Folding	32R-15	MFWD 225	163,000	150	8	0.052	1.09	2.14	3.23	0.34	6.81	6.29	2.19	15.30
NT Plant&Pre-Folding	36R-20	MFWD 225	175,000	150	8	0.035	0.72	1.42	2.31	0.22	4.70	4.50	1.46	10.67
NT Plant&Pre-Rigid	4R-30	2WD 130	26,600	150	8	0.211	4.37	4.95	2.11	0.54	11.97	4.11	3.33	19.41
NT Plant&Pre-Rigid	4R-38	2WD 130	28,100	150	8	0.166	3.44	3.90	1.75	0.42	9.52	3.41	2.62	15.56
NT Plant&Pre-Rigid	6R-30	MFWD 150	34,300	150	8	0.141	2.91	3.81	1.81	0.58	9.12	3.53	3.58	16.24
NT Plant&Pre-Rigid	6R-38	MFWD 150	33,300	150	8	0.111	2.30	3.00	1.39	0.46	7.16	2.70	2.83	12.70
NT Plant&Pre-Rigid	8R-30	MFWD 170	41,600	150	8	0.105	2.18	3.23	1.65	0.47	7.55	3.21	3.04	13.81
NT Plant&Pre-Rigid	8R-38	MFWD 170	39,000	150	8	0.083	1.72	2.56	1.22	0.37	5.88	2.38	2.40	10.67
NT Plant&Pre-Rigid	10R-30	MFWD 190	42,300	150	8	0.084	1.74	2.89	1.34	0.40	6.39	2.61	2.60	11.61
NT Plant&Pre-Rigid	11R-15	MFWD 170	48,000	150	8	0.143	2.97	4.40	2.59	0.64	10.61	5.04	4.14	19.80
NT Plant&Pre-Rigid	11R-20	MFWD 170	45,300	150	8	0.115	2.38	3.54	1.96	0.52	8.41	3.82	3.32	15.56
NT Plant&Pre-Rigid	12R-20	MFWD 190	51,800	150	8	0.105	2.18	3.62	2.05	0.50	8.36	4.00	3.25	15.62
NT Plant&Pre-Rigid	12R-30	MFWD 190	58,900	150	8	0.070	1.45	2.41	1.55	0.33	5.76	3.03	2.17	10.97
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	51,900	150	8	0.097	2.01	3.95	1.89	0.63	8.49	3.69	4.05	16.24
NT Plant&Pre-Rigid	15R-15	MFWD 190	61,400	150	8	0.113	2.33	3.87	2.60	0.54	9.35	5.07	3.48	17.91
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	113,000	150	8	0.055	1.15	2.25	2.35	0.36	6.12	4.59	2.31	13.03
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	89,000	150	8	0.083	1.72	3.38	2.79	0.54	8.45	5.43	3.47	17.36
NT Plant-Folding	8R-38	MFWD 170	40,600	150	8	0.077	1.60	2.37	1.18	0.34	5.51	2.30	2.23	10.05
NT Plant-Folding	8R-38 2x1	MFWD 170	65,400	150	8	0.051	1.06	1.58	1.26	0.23	4.15	2.46	1.48	8.10
NT Plant-Folding	12R-20	MFWD 190	64,500	150	8	0.098	2.02	3.36	2.37	0.47	8.23	4.62	3.02	15.89
NT Plant-Folding	12R-30	MFWD 190	68,900	150	8	0.065	1.35	2.24	1.69	0.31	5.60	3.29	2.01	10.91
NT Plant-Folding	12R-38	MFWD 190	65,400	150	8	0.051	1.06	1.76	1.26	0.24	4.35	2.46	1.59	8.41
NT Plant-Folding	16R-30	MFWD 190	89,800	150	8	0.049	1.01	1.68	1.65	0.23	4.58	3.22	1.51	9.31
NT Plant-Folding	23R-15	MFWD 190	116,000	150	8	0.068	1.40	2.33	2.96	0.32	7.03	5.77	2.09	14.91
NT Plant-Folding	24R-15	MFWD 225	124,000	150	8	0.065	1.35	2.65	3.04	0.42	7.47	5.93	2.72	16.13
NT Plant-Folding	24R-20	MFWD 190	128,000	150	8	0.049	1.01	1.68	2.35	0.23	5.28	4.59	1.51	11.39
NT Plant-Folding	24R-30	MFWD 190	146,000	150	8	0.032	0.67	1.12	1.79	0.15	3.74	3.49	1.00	8.24
NT Plant-Folding	31R-15	MFWD 225	136,000	150	8	0.050	1.04	2.05	2.58	0.32	6.02	5.04	2.11	13.17
NT Plant-Folding	32R-15	MFWD 225	152,000	150	8	0.049	1.01	1.99	2.79	0.31	6.12	5.45	2.04	13.61
NT Plant-Folding	36R-20	MFWD 225	164,000	150	8	0.032	0.67	1.32	2.01	0.21	4.22	3.92	1.36	9.51
NT Plant-Rigid	4R-30	2WD 130	21,200	150	8	0.196	4.05	4.60	1.56	0.50	10.72	3.04	3.09	16.86
NT Plant-Rigid	4R-38	2WD 130	22,800	150	8	0.154	3.19	3.62	1.32	0.39	8.53	2.57	2.43	13.54
NT Plant-Rigid	6R-30	MFWD 150	29,000	150	8	0.130	2.70	3.53	1.42	0.54	8.21	2.77	3.33	14.31
NT Plant-Rigid	6R-38	MFWD 150	27,900	150	8	0.103	2.13	2.79	1.08	0.42	6.44	2.10	2.63	11.17
NT Plant-Rigid	8R-30	MFWD 170	36,200	150	8	0.098	2.02	3.00	1.33	0.44	6.81	2.59	2.82	12.23

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant-Rigid	8R-38	MFWD 170	33,700	150	8	0.077	1.60	2.37	0.98	0.34	5.31	1.91	2.23	9.45
NT Plant-Rigid	10R-30	MFWD 190	37,000	150	8	0.078	1.62	2.68	1.09	0.37	5.78	2.12	2.41	10.32
NT Plant-Rigid	11R-15	MFWD 170	42,700	150	8	0.133	2.76	4.09	2.13	0.60	9.59	4.16	3.84	17.60
NT Plant-Rigid	11R-20	MFWD 170	40,000	150	8	0.107	2.21	3.28	1.61	0.48	7.59	3.13	3.09	13.82
NT Plant-Rigid	12R-20	MFWD 190	46,500	150	8	0.098	2.02	3.36	1.71	0.47	7.57	3.33	3.02	13.93
NT Plant-Rigid	12R-30	MFWD 190	53,600	150	8	0.065	1.35	2.24	1.31	0.31	5.22	2.56	2.01	9.80
NT Plant-Rigid	13R-18/20	MFWD 225	46,600	150	8	0.090	1.87	3.68	1.58	0.59	7.74	3.09	3.78	14.62
NT Plant-Rigid	15R-15	MFWD 190	54,400	150	8	0.105	2.17	3.59	2.14	0.50	8.41	4.17	3.23	15.82
NT Plant-TwinRow	12R-30/40	MFWD 225	106,000	150	8	0.051	1.06	2.09	2.05	0.33	5.55	4.00	2.14	11.70
NT Plant-TwinRow	8R-30/40	MFWD 225	84,000	150	8	0.077	1.60	3.14	2.44	0.50	7.70	4.76	3.22	15.69
One-Trip Prep	4R-38	MFWD 170	20,000	150	10	0.146	1.70	4.49	1.36	0.66	8.22	2.10	4.22	14.55
One-Trip Prep	6R-38	MFWD 190	24,000	150	10	0.097	1.12	3.33	1.08	0.46	6.01	1.67	2.99	10.68
One-Trip Prep	8R-38	MFWD 225	35,700	150	10	0.073	0.85	2.99	1.23	0.48	5.56	1.89	3.07	10.53
Peanut Cond. & Lifter	6-Row	MFWD 190	11,600	300	20	0.100	1.16	3.42	0.19	0.48	5.25	0.29	3.07	8.63
Peanut Conditioner	6-Row	MFWD 190	12,900	300	20	0.100	1.16	3.42	0.25	0.48	5.32	0.28	3.07	8.69
Peanut Dig/Invertor	4R-30	MFWD 190	23,800	300	15	0.235	2.73	8.07	1.39	1.13	13.34	1.70	7.26	22.30
Peanut Dig/Invertor	4R-38	MFWD 190	23,800	300	15	0.186	2.16	6.37	1.10	0.89	10.53	1.34	5.73	17.61
Peanut Dig/Invertor	6R-38	MFWD 190	34,700	300	15	0.124	1.43	4.24	0.75	0.59	7.03	1.30	3.82	12.16
Peanut Dump Cart	6-Row	MFWD 190	40,600	300	20	0.310	3.59	10.61	0.73	1.49	16.43	3.06	9.54	29.04
Peanut Harvester	4R-30	MFWD 225	114,000	300	20	0.849	9.85	34.45	5.49	5.52	55.33	21.71	35.34	112.39
Peanut Harvester	4R-38	MFWD 225	114,000	300	20	0.934	10.84	37.88	6.03	6.07	60.83	24.92	38.86	124.62
Peanut Harvester	6R-38	MFWD 225	132,000	300	20	0.625	7.25	25.33	3.98	4.06	40.63	19.29	25.99	85.92
Peanut Lifter	6-Row	MFWD 225	5,470	300	20	0.100	1.16	4.05	0.11	0.65	5.97	0.12	4.15	10.25
Peanut Plt&Pre Fold.	12R-38	MFWD 190	66,100	150	8	0.080	1.66	2.75	1.99	0.38	6.79	3.88	2.47	13.15
Peanut Plt&Pre Rigid	8R-30	MFWD 190	37,300	150	8	0.152	3.15	5.22	2.13	0.73	11.25	4.16	4.70	20.12
Peanut Plt&Pre Rigid	8R-38	MFWD 190	34,800	150	8	0.120	2.49	4.13	1.57	0.58	8.78	3.07	3.71	15.57
Pipe Spool 160ac	1/4m roll	2WD 130	3,370	15	12	0.003	0.09	0.07	0.00	0.00	0.17	0.06	0.04	0.29
Pipe Trailer 1m/160a	30'	2WD 130	7,300	100	15	0.003	0.17	0.08	0.00	0.00	0.28	0.02	0.05	0.36
Plant & Pre-Folding	8R-38	MFWD 170	41,800	150	8	0.080	1.65	2.45	1.25	0.36	5.73	2.45	2.31	10.49
Plant & Pre-Folding	8R-38 2x1	MFWD 170	66,100	150	8	0.053	1.10	1.63	1.32	0.24	4.30	2.58	1.53	8.42
Plant & Pre-Folding	12R-20	MFWD 190	63,500	150	8	0.101	2.09	3.47	2.41	0.48	8.48	4.71	3.12	16.31
Plant & Pre-Folding	12R-30	MFWD 190	67,900	150	8	0.067	1.39	2.31	1.72	0.32	5.76	3.35	2.08	11.20
Plant & Pre-Folding	12R-38	MFWD 190	66,100	150	8	0.053	1.10	1.82	1.32	0.25	4.51	2.58	1.64	8.74
Plant & Pre-Folding	16R-30	MFWD 190	88,300	150	8	0.050	1.04	1.73	1.68	0.24	4.71	3.27	1.56	9.55
Plant & Pre-Folding	23R-15	MFWD 190	109,000	150	8	0.070	1.45	2.41	2.88	0.33	7.09	5.61	2.17	14.87
Plant & Pre-Folding	24R-15	MFWD 225	117,000	150	8	0.067	1.39	2.74	2.96	0.43	7.55	5.78	2.81	16.15
Plant & Pre-Folding	24R-20	MFWD 190	122,000	150	8	0.050	1.04	1.73	2.32	0.24	5.35	4.52	1.56	11.44
Plant & Pre-Folding	24R-30	MFWD 190	144,000	150	8	0.033	0.69	1.15	1.82	0.16	3.84	3.56	1.04	8.45
Plant & Pre-Folding	31R-15	MFWD 225	131,000	150	8	0.052	1.08	2.12	2.57	0.34	6.12	5.02	2.18	13.33
Plant & Pre-Folding	32R-15	MFWD 225	146,000	150	8	0.050	1.04	2.05	2.77	0.33	6.21	5.41	2.11	13.74
Plant & Pre-Folding	36R-20	MFWD 225	156,000	150	8	0.033	0.69	1.37	1.98	0.22	4.27	3.85	1.40	9.53
Plant & Pre-Rigid	4R-30	2WD 130	24,500	150	8	0.203	4.19	4.75	1.86	0.52	11.33	3.63	3.19	18.17
Plant & Pre-Rigid	4R-38	2WD 130	26,000	150	8	0.159	3.30	3.74	1.55	0.41	9.01	3.03	2.51	14.57
Plant & Pre-Rigid	6R-30	MFWD 150	32,200	150	8	0.135	2.79	3.65	1.63	0.56	8.65	3.18	3.44	15.28
Plant & Pre-Rigid	6R-38	MFWD 150	30,100	150	8	0.106	2.20	2.88	1.20	0.44	6.74	2.35	2.71	11.81
Plant & Pre-Rigid	8R-30	MFWD 170	37,300	150	8	0.101	2.09	3.10	1.42	0.45	7.08	2.76	2.92	12.77
Plant & Pre-Rigid	8R-38	MFWD 170	34,800	150	8	0.080	1.65	2.45	1.04	0.36	5.52	2.04	2.31	9.87
Plant & Pre-Rigid	10R-30	MFWD 190	37,000	150	8	0.081	1.67	2.78	1.12	0.39	5.97	2.19	2.50	10.67
Plant & Pre-Rigid	11R-15	MFWD 170	42,200	150	8	0.148	3.06	4.53	2.34	0.66	10.61	4.56	4.26	19.45
Plant & Pre-Rigid	11R-20	MFWD 170	39,500	150	8	0.110	2.29	3.39	1.64	0.49	7.83	3.20	3.19	14.23
Plant & Pre-Rigid	12R-20	MFWD 190	45,500	150	8	0.101	2.09	3.47	1.73	0.48	7.79	3.37	3.12	14.29
Plant & Pre-Rigid	12R-30	MFWD 190	52,600	150	8	0.067	1.39	2.31	1.33	0.32	5.37	2.60	2.08	10.06
Plant & Pre-Rigid	13R-18/20	MFWD 225	45,100	150	8	0.093	1.93	3.79	1.58	0.60	7.91	3.08	3.89	14.89
Plant & Pre-Rigid	15R-15	MFWD 190	53,500	150	8	0.108	2.24	3.71	2.17	0.52	8.66	4.24	3.34	16.25
Plant & Pre-TwinRow	12R-30/40	MFWD 225	106,000	150	8	0.053	1.10	2.16	2.12	0.34	5.74	4.13	2.22	12.10
Plant & Pre-TwinRow	8R-30/40	MFWD 225	84,800	150	8	0.080	1.65	3.25	2.55	0.52	7.98	4.97	3.33	16.29
Plant - Folding	8R-38	MFWD 170	36,500	150	8	0.074	1.53	2.28	1.02	0.33	5.17	1.98	2.14	9.31
Plant - Folding	8R-38 2x1	MFWD 170	59,100	150	8	0.049	1.02	1.51	1.09	0.22	3.86	2.14	1.42	7.43
Plant - Folding	12R-20	MFWD 190	58,200	150	8	0.094	1.94	3.22	2.05	0.45	7.68	4.00	2.90	14.59
Plant - Folding	12R-30	MFWD 190	52,600	150	8	0.062	1.29	2.15	1.23	0.30	4.99	2.41	1.93	9.34
Plant - Folding	12R-38	MFWD 190	59,100	150	8	0.049	1.02	1.69	1.09	0.23	4.06	2.14	1.52	7.73
Plant - Folding	16R-30	MFWD 190	81,300	150	8	0.047	0.97	1.61	1.43	0.22	4.25	2.79	1.45	8.50
Plant - Folding	23R-15	MFWD 190	10,300	150	8	0.065	1.35	2.24	0.25	0.31	4.16	0.49	2.01	6.67
Plant - Folding	24R-15	MFWD 225	111,000	150	8	0.062	1.29	2.54	2.61	0.40	6.87	5.09	2.61	14.58
Plant - Folding	24R-20	MFWD 190	115,000	150	8	0.047	0.97	1.61	2.03	0.22	4.84	3.96	1.45	10.25
Plant - Folding	24R-30	MFWD 190	133,000	150	8	0.031	0.64	1.07	1.56	0.15	3.44	3.05	0.96	7.46
Plant - Folding	31R-15	MFWD 225	120,000	150	8	0.048	1.00	1.97	2.19	0.31	5.49	4.27	2.02	11.79
Plant - Folding	32R-15	MFWD 225	135,000	150	8	0.047	0.97	1.91	2.38	0.30	5.57	4.64	1.96	12.18
Plant - Folding	36R-20	MFWD 225	145,000	150	8	0.031	0.64	1.27	1.70	0.20	3.83	3.32	1.30	8.47
Plant - Rigid	4R-30	2WD 130	19,100	150	8	0.188	3.89	4.41	1.35	0.48	10.14	2.63	2.96	15.74
Plant - Rigid	4R-38	2WD 130	20,700	150	8	0.148	3.06	3.47	1.15	0.38	8.07	2.24	2.33	12.66
Plant - Rigid	6R-30	MFWD 150	26,900	150	8	0.125	2.59	3.39	1.26	0.52	7.78	2.47	3.19	13.45
Plant - Rigid	6R-38	MFWD 150	24,800	150	8	0.099	2.05	2.68	0.92	0.41	6.06	1.79	2.52	10.39
Plant - Rigid	8R-30	MFWD 170	32,000	150	8	0.094	1.94	2.88	1.13	0.42	6.39	2.20	2.71	11.31
Plant - Rigid	8R-38	MFWD 170	29,500	150	8	0.074	1.53	2.28	0.82	0.33	4.98	1.60	2.14	8.73
Plant - Rigid	10R-30	MFWD 190	31,700	150	8	0.075	1.55	2.58	0.89	0.36	5.39	1.74	2.32	9.46
Plant - Rigid	11R-15	MFWD 170	36,900	150	8	0.137	2.84	4.21	1.90	0.61	9.58	3.71	3.96	17.25
Plant - Rigid	11R-20	MFWD 170	34,200	150	8	0.103	2.12	3.15	1.32	0.46	7.06	2.57	2.96	12.61

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Plant - Rigid	12R-20	MFWD 190	40,200	150	8	0.094	1.94	3.22	1.42	0.45	7.05	2.76	2.90	12.72
Plant - Rigid	12R-30	MFWD 190	47,300	150	8	0.062	1.29	2.15	1.11	0.30	4.86	2.17	1.93	8.97
Plant - Rigid	13R-18/20	MFWD 225	39,800	150	8	0.086	1.79	3.52	1.29	0.56	7.17	2.52	3.61	13.32
Plant - Rigid	15R-15	2WD 150	46,500	150	8	0.094	1.94	2.54	1.64	0.38	6.52	3.20	2.36	12.09
Plant - TwinRow	12R-30/40	MFWD 225	99,400	150	8	0.049	1.02	2.01	1.84	0.32	5.20	3.60	2.06	10.87
Plant - TwinRow	8R-30/40	MFWD 225	79,800	150	8	0.074	1.53	3.02	2.23	0.48	7.27	4.34	3.09	14.72
Roller/Cultipacker	12'	2WD 130	5,030	300	12	0.124	1.44	2.91	0.14	0.32	4.82	0.20	1.95	6.99
Roller/Cultipacker	20'	MFWD 150	14,200	300	12	0.074	0.86	2.01	0.25	0.31	3.44	0.34	1.89	5.69
Roller/Cultipacker	30'	MFWD 170	16,700	300	12	0.049	0.57	1.52	0.19	0.22	2.52	0.27	1.43	4.22
Roller/Cultipacker	38'	MFWD 225	17,900	300	12	0.039	0.45	1.59	0.16	0.25	2.47	0.23	1.63	4.33
Roller/Stubble	20'	2WD 50	12,000	300	12	0.074	0.86	0.67	0.21	0.04	1.79	0.29	0.29	2.38
Roller/Stubble	32'	MFWD 225	20,400	300	12	0.046	0.54	1.89	0.22	0.30	2.96	0.31	1.94	5.21
Rotary Cutter	7'	MFWD 130	4,230	185	10	0.168	1.95	3.94	0.57	0.53	7.00	0.41	3.25	10.67
Rotary Cutter	12'	2WD 150	12,000	185	10	0.098	1.13	2.65	0.95	0.40	5.15	0.68	2.46	8.29
Rotary Cutter-Flex	15'	MFWD 150	18,000	185	10	0.078	0.91	2.12	1.14	0.32	4.50	0.82	1.99	7.32
Rotary Cutter-Flex	20'	MFWD 150	25,500	185	10	0.058	0.68	1.59	1.21	0.24	3.73	0.87	1.49	6.11
Row Cond & Inc-Fold.	26'	MFWD 190	23,300	100	10	0.063	1.02	2.17	0.36	0.30	3.87	1.58	1.95	7.41
Row Cond & Inc-Fold.	38'	MFWD 225	32,700	100	10	0.043	0.70	1.76	0.35	0.28	3.09	1.52	1.80	6.42
Row Cond & Inc-Rigid	13'	2WD 130	12,500	100	10	0.126	2.04	2.97	0.39	0.32	5.74	1.70	1.99	9.44
Row Cond & Inc-Rigid	21'	2WD 170	17,000	100	10	0.078	1.26	2.40	0.33	0.29	4.29	1.43	1.86	7.60
Row Cond & Inc-Rigid	26'	MFWD 190	17,700	100	10	0.026	0.42	0.91	0.11	0.12	1.58	0.50	0.81	2.91
Row Cond Folding	26'	MFWD 225	17,900	100	10	0.059	0.69	2.42	0.26	0.38	3.76	1.14	2.48	7.40
Row Cond Folding	38'	MFWD 225	25,700	100	10	0.040	0.47	1.65	0.26	0.26	2.65	1.12	1.69	5.48
Row Cond Rigid	13'	2WD 130	7,120	100	10	0.119	1.38	2.79	0.21	0.30	4.70	0.91	1.88	7.49
Row Cond Rigid	21'	2WD 170	11,700	100	10	0.073	0.85	2.26	0.21	0.27	3.61	0.93	1.75	6.30
Row Cond Rigid	26'	MFWD 190	12,400	100	10	0.059	0.69	2.04	0.18	0.28	3.21	0.79	1.83	5.84
Row Cond./Roll-Fold.	26'	MFWD 190	26,300	160	10	0.072	0.83	2.46	0.47	0.34	4.12	1.27	2.22	7.62
Row Cond./Roll-Fold.	30'	MFWD 190	35,400	160	10	0.062	0.72	2.13	0.55	0.30	3.71	1.48	1.92	7.12
Row Cond./Roll-Fold.	40'	MFWD 225	36,700	160	10	0.046	0.54	1.90	0.43	0.30	3.17	1.15	1.94	6.28
Row Cond./Roll-Rigid	21'	MFWD 190	11,800	160	10	0.089	1.03	3.05	0.26	0.42	4.78	0.70	2.74	8.24
Row Cond./Roll-Rigid	26'	MFWD 190	22,800	160	10	0.072	0.83	2.46	0.41	0.34	4.06	1.10	2.22	7.38
Spin Spreader	5 ton	MFWD 190	10,900	100	8	0.042	0.86	1.44	0.25	0.20	2.77	0.52	1.29	4.59
Spray (ATV Ropewick)	75"	800 CC	590	200	8	0.260	4.19	0.61	0.07	0.30	5.19	0.08	1.20	6.48
Spray (ATV)	12'/17'	800 CC	520	200	8	0.112	1.81	0.26	0.02	0.13	2.24	0.03	0.52	2.80
Spray (ATV)	20'	800 CC	1,330	200	8	0.084	1.36	0.20	0.05	0.09	1.71	0.06	0.39	2.17
Spray (Band)	27' Fold	MFWD 170	5,340	200	8	0.062	1.01	1.91	0.15	0.28	3.36	0.19	1.80	5.36
Spray (Band)	40' Fold	MFWD 170	6,970	200	8	0.042	0.68	1.29	0.13	0.19	2.30	0.16	1.21	3.69
Spray (Band)	50' Fold	MFWD 170	8,940	200	8	0.033	0.54	1.03	0.14	0.15	1.87	0.17	0.97	3.02
Spray (Band)	53' Fold	MFWD 170	8,100	200	8	0.031	0.51	0.97	0.12	0.14	1.75	0.14	0.91	2.82
Spray (Band)	60' Fold	MFWD 170	11,100	200	8	0.028	0.45	0.86	0.14	0.12	1.59	0.17	0.81	2.58
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,600	200	8	0.130	2.09	3.51	0.34	0.54	6.50	0.41	3.31	10.23
Spray (Bcast/HB)	20' Rigid	MFWD 150	6,610	200	8	0.084	1.36	2.28	0.26	0.35	4.26	0.32	2.15	6.73
Spray (Bcast/HB)	27' Fold	MFWD 170	11,300	200	8	0.062	1.01	1.91	0.33	0.28	3.54	0.40	1.80	5.75
Spray (Bcast/HB)	27' Rigid	MFWD 170	7,590	200	8	0.062	1.01	1.91	0.22	0.28	3.43	0.27	1.80	5.51
Spray (Bcast/HB)	30' Fold	MFWD 170	12,800	200	8	0.056	0.90	1.72	0.33	0.25	3.22	0.41	1.62	5.26
Spray (Bcast/HB)	40' Fold	MFWD 170	13,500	200	8	0.042	0.68	1.29	0.26	0.19	2.43	0.32	1.21	3.98
Spray (Bcast/HB/HD)	27'	MFWD 170	12,100	200	8	0.062	1.01	1.91	0.35	0.28	3.56	0.43	1.80	5.80
Spray (Bcast/HB/HD)	40'	MFWD 170	12,785	200	8	0.042	0.68	1.29	0.25	0.19	2.42	0.31	1.21	3.95
Spray (Broadcast)	27'	MFWD 170	5,340	200	8	0.062	1.01	1.91	0.15	0.28	3.36	0.19	1.80	5.36
Spray (Broadcast)	40'	MFWD 170	6,970	200	8	0.042	0.68	1.29	0.13	0.19	2.30	0.16	1.21	3.69
Spray (Broadcast)	50'	MFWD 170	8,940	200	8	0.033	0.54	1.03	0.14	0.15	1.87	0.17	0.97	3.02
Spray (Broadcast)	53'	MFWD 170	8,100	200	8	0.031	0.51	0.97	0.12	0.14	1.75	0.14	0.91	2.82
Spray (Broadcast)	60'	MFWD 170	11,100	200	8	0.028	0.45	0.86	0.14	0.12	1.59	0.17	0.81	2.58
Spray (Direct/Hood)	8R-30	MFWD 170	12,200	200	8	0.084	1.36	2.59	0.48	0.38	4.82	0.59	2.43	7.84
Spray (Direct/Hood)	8R-38	MFWD 170	13,400	200	8	0.066	1.07	2.04	0.42	0.30	3.84	0.51	1.92	6.28
Spray (Direct/Hood)	12R-30	MFWD 170	15,400	200	8	0.056	0.90	1.72	0.40	0.25	3.29	0.49	1.62	5.42
Spray (Direct/Hood)	12R-38	MFWD 170	15,700	200	8	0.044	0.71	1.36	0.32	0.20	2.61	0.40	1.28	4.29
Spray (Direct/Layby)	8R-38	MFWD 170	12,300	200	8	0.066	1.07	2.04	0.38	0.30	3.81	0.47	1.92	6.21
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	18,100	200	8	0.044	0.71	1.36	0.37	0.20	2.66	0.46	1.28	4.40
Spray (Direct/Layby)	12R-30	MFWD 170	16,200	200	8	0.056	0.90	1.72	0.42	0.25	3.31	0.52	1.62	5.46
Spray (Direct/Layby)	12R-38	MFWD 170	18,100	200	8	0.044	0.71	1.36	0.37	0.20	2.66	0.46	1.28	4.40
Spray (Levee Leaper)	50'	MFWD 225	11,700	200	8	0.033	0.54	1.37	0.18	0.22	2.32	0.22	1.40	3.95
Spray (Pull Type)	60'	MFWD 225	27,800	200	8	0.028	0.45	1.14	0.36	0.18	2.14	0.45	1.17	3.77
Spray (Pull Type)	80'	MFWD 225	38,600	200	8	0.021	0.34	0.85	0.38	0.13	1.71	0.46	0.87	3.06
Spray (Pull Type)	90'	2WD 50	39,000	200	8	0.018	0.30	0.16	0.34	0.01	0.82	0.42	0.07	1.32
Spray (Pull Type)	100'	MFWD 225	35,900	200	8	0.016	0.27	0.68	0.28	0.10	1.35	0.34	0.70	2.40
Spray (Pull Type)	120'	MFWD 225	50,800	200	8	0.014	0.22	0.57	0.33	0.09	1.22	0.41	0.58	2.22
Spray (Ropewick)	20'	MFWD 190	2,550	200	8	0.084	1.36	2.89	0.10	0.40	4.76	0.12	2.60	7.49
Spray (Spot)	27'	MFWD 170	5,340	200	8	0.062	1.01	1.91	0.15	0.28	3.36	0.19	1.80	5.36
Spray (Spot)	40'	MFWD 170	6,970	200	8	0.042	0.68	1.29	0.13	0.19	2.30	0.16	1.21	3.69
Spray (Spot)	50'	MFWD 170	8,940	200	8	0.033	0.54	1.03	0.14	0.15	1.87	0.17	0.97	3.02
Spray (Spot)	53'	MFWD 170	8,100	200	8	0.031	0.51	0.97	0.12	0.14	1.75	0.14	0.91	2.82
Spray (Spot)	60'	MFWD 225	11,100	200	8	0.028	0.45	1.14	0.14	0.18	1.92	0.17	1.17	3.28
Stalk Shredder	14'	MFWD 150	12,900	200	10	0.117	1.36	3.18	1.33	0.48	6.37	0.81	2.99	10.18
Stalk Shredder Flex	20'	MFWD 150	30,500	200	10	0.082	0.95	2.22	2.20	0.34	5.73	1.35	2.09	9.18
Stalk Shredder-Flail	12'	MFWD 150	15,300	200	10	0.137	1.59	3.71	1.84	0.57	7.72	1.13	3.49	12.35
Stalk Shredder-Flail	15'	MFWD 150	19,300	200	10	0.110	1.27	2.97	1.85	0.45	6.56	1.14	2.79	10.50

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Stalk Shredder-Flail	18'	MFWD 150	24,900	200	10	0.091	1.06	2.47	1.99	0.38	5.91	1.22	2.33	9.47
Stalk Shredder-Flail	20'	MFWD 150	25,600	200	10	0.082	0.95	2.22	1.84	0.34	5.37	1.13	2.09	8.61
Stalk Shredder-Flail	25'	MFWD 150	34,100	200	10	0.066	0.76	1.78	1.96	0.27	4.79	1.20	1.67	7.68
Strip Till	8R38/12R30	MFWD 225	32,000	150	10	0.061	0.71	2.49	0.85	0.40	4.46	1.41	2.56	8.44
Subsoiler	3 shank	MFWD 190	3,390	100	15	0.204	2.37	6.99	0.23	0.98	10.57	0.58	6.29	17.45
Subsoiler	4 shank	MFWD 225	7,610	100	15	0.153	1.78	6.22	0.38	0.99	9.39	0.98	6.38	16.77
Subsoiler	5 shank	MFWD 225	7,300	100	15	0.122	1.41	4.95	0.29	0.79	7.47	0.75	5.08	13.31
Subsoiler low-till	6 shank	MFWD 225	10,200	100	15	0.102	1.18	4.14	0.34	0.66	6.33	0.87	4.24	11.46
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.88	3.10	0.50	0.49	4.98	1.26	3.18	9.43

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, 2013

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Dithane Rainshield	lb	2.84
Crop Oil Conc.(Pet.)	pt	3.75	Enable 2F	oz	1.93
Crop Oil Conc.(Veg.)	pt	4.34	Folicur 3.6	oz	1.08
Drift/Defoamer	pt	5.25	Headline EC	oz	2.81
Spreader Sticker	pt	3.28	Headline SC	oz	3.06
Surfactant	pt	3.50	Manzate 75 DF	lb	4.93
CLEANING			Moncut 70 DF	lb	24.85
Cleaning Peanuts	ton	18.00	Prevail	lb	28.26
CROP CONSULTANT			Provost	oz	2.18
Crop Consultant	acre	5.50	Quadris	oz	2.47
Rice Consultant	acre	8.00	Quilt	pt	19.37
CUSTOM FERTILIZE			Quilt XCEL	pt	26.52
App Fert by Air	cwt	6.50	Ridomil Gold	oz	6.22
App Fert by Air(Min)	appl	6.50	Ridomil Gold PC GR	lb	2.42
Custom Apply Fert	acre	7.00	Rovral 4F	pt	17.72
CUSTOM LIME			Stiletto	oz	0.56
Lime (Spread)	ton	45.00	Stratego	pt	21.97
CUSTOM PLANT			Stratego YLD	oz	4.60
Custom Plant	acre	7.00	Terrachlor 2EC	pt	1.87
Custom Plant Air	cwt	6.50	Tilt 3.6 EC	oz	1.17
CUSTOM SPRAY			Tilt/ Bravo SE	oz	0.38
App by Air (2 gal)	appl	4.00	Uniform	oz	4.42
App by Air (3 gal)	appl	4.75	Vitavax RTU-Thiram	oz	0.35
App by Air (5 gal)	appl	6.00	GINNING		
App by Air (10 gal)	appl	7.75	Gin & Haul	lb	0.11
Custom Spray	acre	6.50	GROWTH REGULATORS		
DRYING			Early Harvest PGR	oz	1.55
Dry Corn	bu	0.19	Mepex	oz	0.10
Dry Grain Sorghum	cwt	0.25	Mepex Gin Out	oz	0.15
Dry Peanuts	ton	24.00	Mepichlor 4.2%	oz	0.13
Dry Rice	bu	0.40	Mepiquat	oz	0.11
ERADICATION FEE			Mepiquat Extra	oz	0.08
Eradication	acre	1.00	Pentia	pt	5.72
FERTILIZERS			Pix Plus	oz	0.25
Amm Nitrate (34% N)	cwt	22.50	Stance	oz	1.24
Amm Sulfate (21% N)	cwt	20.70	SuperBoll	pt	3.24
Amm Sulfate dry/mix	lb	0.28	HARVEST AIDS		
Boron 15G	lb	0.40	Adios	oz	1.30
Boron Plus	pt	4.00	Aim 2EC	oz	7.38
DAP	cwt	32.00	Ammonium Sulfate	lb	0.28
Fert 10-34-0	cwt	35.00	CottonQuik	pt	4.25
Fert 11-37-0	cwt	36.50	Def 6	pt	7.34
Fert 30-0-0-5	cwt	18.32	Def/Folex	pt	8.42
Fert 33-0-0-12s	cwt	21.50	Defol 3	gal	3.45
Fert 41-0-0-4	cwt	26.30	Defol 5	gal	6.11
Lime	ton	35.00	Defol 750	pt	1.72
MAP	cwt	33.33	Dropp SC	oz	2.34
Phosphorus(46% P2O5)	cwt	29.30	ET	pt	47.80
Potash (60% K2O)	cwt	29.80	Ethephon 6E	pt	3.34
Sulfur 90%	lb	0.27	Finish 6	pt	9.22
Sulfur 90%	lb	0.27	First Pick	pt	3.66
Sulfur Plus	pt	2.37	Folex 6EC	pt	9.50
SuperMax AMS	pt	2.47	Freefall SC	oz	1.57
UAN (32% N)	cwt	21.10	Ginstar EC	pt	31.92
UAN + Sulfur (28%)	cwt	20.90	Gramoxone SL	oz	0.25
Urea, Solid (46% N)	cwt	28.40	Paraquat	oz	0.25
Zinc Plus	pt	2.62	Prep	pt	3.00
Zinc Sulfate 31%	lb	0.55	Sharpen	oz	5.30
FUNGICIDES			Shed-a-leaf	gal	3.60
Abound	pt	30.16	Sodium Chlorate 3L	gal	3.45
Allegiance Flowable	pt	59.52	Sodium Chlorate 5L	gal	6.11
Apron Maxx RTA	oz	0.87	TDZ SC	oz	1.41
Apron Maxx RTA+Moly	pt	15.47	Thidiazuron 4lb	oz	1.80
Apron XL LS	oz	7.93	Tribufos 6lb	pt	8.42
Artisan	oz	0.96	HAULING		
Bravo Ultrex	lb	5.48	Haul Corn/Bin	bu	0.23
Bravo Weather Stick	pt	4.42	Haul Corn/Field	bu	0.28
Captan 50 WP	lb	6.00	Haul Cotton	lb	0.02
Cotton Seed Trt.	acre	20.00	Haul Peanuts	ton	14.50
CruiserMaxx	oz	4.07	Haul Rice/Bin	bu	0.30
Dithane F-45	qt	8.17			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.31	Fusion	pt	26.64
Haul Sorghum/Bin	bu	0.23	Glyfos	pt	1.94
Haul Sorghum/Field	bu	0.28	Glyfos Xtra	pt	1.80
Haul Soybeans/Bin	bu	0.23	Glyphosate 3lbs a.e	pt	1.79
Haul Soybeans/Field	bu	0.28	Glyphosate 3lbs a.e	oz	0.13
Haul Wheat/Bin	bu	0.23	Glystar	pt	1.81
Haul Wheat/Field	bu	0.28	Glystar Plus	pt	1.80
HERBICIDES			Goal 2XL	pt	9.87
2,4-D Amine 4	pt	2.54	Gramonone SL 2.0	oz	0.25
2,4-D LV 4Ester	pt	2.31	Grandstand R	qt	28.37
2,4-D Weedar 64	pt	2.54	Guardman Max	pt	6.92
AAtrex 4L	pt	2.28	Halex GT	pt	6.16
AAtrex NINE-O	lb	4.22	Halomax	oz	18.42
Accent Q	oz	32.47	Harmony Extra SG	oz	13.27
Aim 2EC	oz	7.38	Harmony Extra XP	oz	14.40
Armezon	oz	0.00	Harmony GT	oz	20.72
Assure II	oz	0.90	Harness	pt	11.88
Atrazine 4L	pt	1.72	Harness XTRA	pt	7.00
Atrazine 90DF	lb	3.24	Hoelon 3EC	pt	11.03
Axial	oz	0.98	Impact	oz	20.34
Axiom 68DF	oz	1.73	Karmex XP	lb	6.81
Banvel	pt	6.98	Lariat	qt	7.29
Basagran	pt	13.23	Laudis	oz	4.89
Basis	oz	18.57	Layby Pro	qt	13.87
Beyond	oz	3.90	Lexar	pt	6.85
Bicep II Magnum	qt	11.82	Liberty 280	pt	8.84
Bicep Lite Magnum	pt	7.95	Linex 4L	pt	9.92
Blazer Ultra	pt	9.40	Londax 60DF	oz	14.75
Bolero 8EC	pt	7.30	Lorox 50DF	lb	20.60
Boundary 6.5 EC	pt	9.67	Makaze	pt	1.50
Buccaneer Plus	pt	1.74	MSMA 6.6	pt	2.79
Bullet	pt	3.65	MSMA6 Plus	pt	2.71
Butoxone 200(2,4-D	pt	3.21	Newpath 2SL	oz	3.15
Butyrac 200 (2,4-DB)	pt	4.18	Osprey	oz	3.20
Cadre	oz	3.65	Outlook	pt	22.99
Callisto 4SC	oz	5.50	Paraquat	oz	0.25
Canopy 75%	oz	2.21	Parazone 3SL	oz	0.26
Canopy EX	oz	7.76	Parrlay	pt	8.13
Caparol 4L	pt	2.54	Peak Accu Pak	oz	14.69
Capreno	oz	5.78	Permit 75 DF	oz	19.79
Celebrity Plus	lb	84.50	Poast 1.53	pt	11.25
Clarity	pt	10.83	Poast Plus	pt	8.42
Classic	oz	16.06	Prefix	pt	6.84
Clearpath	lb	48.09	Propimax EC	pt	20.31
Clincher SF	oz	2.10	Prowl 3.3 EC	pt	5.51
Cobra 2EC	oz	1.47	Prowl H20	pt	5.37
Command 3ME	pt	17.08	Pursuit 2S	oz	3.93
Cornerstone Plus	pt	1.56	Python WDG	oz	13.22
Cotoran 4L	pt	6.12	Quinstar	lb	48.70
Cotton Pro	pt	3.44	Raptor	oz	4.05
Credit Extra	pt	2.04	Reflex 2LC	pt	16.10
Direx 4L	pt	4.05	Regiment 80WP	oz	40.64
Diuron 4L	pt	3.85	Remedy Ultra	pt	8.45
Diuron 80 DF	lb	5.13	Resolve SG	oz	7.77
Diuron 80%	lb	5.13	Resource .86EC	pt	27.28
Dual II Magnum	pt	14.43	Ricebeaux	pt	5.17
Dual Magnum	pt	13.54	RicePro	pt	4.85
Duet	pt	4.78	Riceshot	pt	3.48
Envoke	oz	88.92	Ricestar HT	pt	22.25
Evik DF 80W	lb	10.11	Rifel	pt	4.38
Exceed	oz	10.71	Roundup Power Max	oz	0.18
Expert	pt	4.19	Roundup PowerMax	pt	2.83
Facet L	pt	14.25	Roundup WeatherMax	oz	0.24
Finesse	oz	15.34	Roundup WeatherMax	pt	3.77
First Rate	oz	39.68	Salvo	pt	3.56
Flexstar	pt	16.78	Scepter 70 DG	oz	4.33
Frontier 6.0	oz	0.63	Select Max	pt	12.59
Fultime	pt	5.21	Sequence	pt	5.08
Fusilade DX	oz	1.23			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Simazine 4L	pt	2.86	Intrepid 2F	oz	1.81
Stalwart	pt	6.25	Intruder 70WSP	oz	8.75
Stam 80 EDF	lb	7.13	Karate Z	oz	3.15
Stam M4	qt	7.51	Kelthane MF 4EC	pt	5.03
Staple LX	oz	8.25	Lannate LV	pt	9.87
Steadfast	oz	23.95	Lannate SP	oz	1.83
Steadfast ATZ	oz	0.00	Larvin 3.2	oz	0.62
Sterling Blue	pt	9.81	Leverage 2.7	oz	1.33
Storm	pt	10.62	Lorsban 15G	lb	2.24
Strada WG	oz	5.96	Lorsban 4E	pt	5.54
Strongarm	oz	47.07	Malathion 5E	pt	4.60
Superwham	qt	8.49	Malathion 8E	pt	5.50
Suprend	lb		Methyl Parathion 4	pt	5.58
Surpass EC	qt	25.92	Monitor 4	pt	16.33
Synchrony XP	oz	11.75	Mustang Max	oz	1.58
Touchdown Total	qt	5.49	Oberon 4 SC	pt	76.18
Treflan TR-10	lb	1.10	Orthene 90S	lb	6.50
Tricor DF	lb	14.46	Penncap-M	pt	5.90
Trifluralin 4EC	pt	3.19	Phorate	lb	3.00
Valor SX	oz	5.55	Pounce 25WP	lb	12.77
Valor XLT	oz	4.10	Prolex	oz	2.62
Verdict	oz	1.58	Respect .8EC	pt	33.79
Zidua	oz	0.00	Sevin 4F	pt	6.01
Zorial Rapid 80DF	lb	13.95	Sevin 80S	lb	7.35
INOCULANT			Sevin XLR Plus	qt	12.39
Nitrastick S	lbseed	0.02	Sniper	oz	0.70
Nitro Fix	lbseed	0.03	Steward	pt	31.20
Optimize LIFT	oz	0.70	Temik 15G Grit	lb	4.11
INSECT SCOUTING			Temik 15G Gypsum	lb	4.11
Insect Scouting	acre	7.00	Thimet 20-G Lock N L	lb	3.33
INSECTICIDES			Thionex 3 EC	pt	4.46
Acephate 90%	lb	6.53	Thionex 50W	lb	10.51
Acephate 90SP	lb	6.56	Tombstone Helios	pt	36.30
Acramite-4SC	oz	1.37	Tracer 4SC	oz	8.45
Ambush 25 WP	.66	0.00	Trimax Pro	oz	1.85
Asana .66 XL	oz	0.75	Tundra	oz	0.78
Aztec 2.1% G	lb	3.40	Vydate C-LV	oz	0.83
Baythroid XL	oz	2.27	Warrior Z	oz	1.80
Bidrin 8WM	oz	1.01	Zeal	oz	18.59
Bidrin XP	oz	0.78	Zephyr	oz	2.20
Bifenture 2EC	pt	12.50	IRRIGATION SUPPLIES		
Brigade EC	pt	14.58	Roll-Out Pipe	ft	0.24
Brigade WSB	lb	22.22	SEED/PLANTS		
Capture 2EC	oz	1.76	Corn Seed Bt	thous	2.60
Capture LFR	oz	2.16	Corn Seed BtRR	thous	3.34
Carbaryl 4L	pt	4.88	Corn Seed Conv.	thous	2.57
Carbine 50WG	oz	5.50	Corn Seed RR2	thous	3.11
Centric 40WG	oz	4.46	Corn Seed VT3	thous	3.29
Comite 1l	pt	7.23	Corn Seed VT3Pro	thous	3.38
Confirm 2F	oz	1.94	Corn Seed YGCB	thous	2.60
Counter 15G	lb	2.55	Cotton Seed B2RF	thous	0.68
Curacron 8E	pt	10.74	Cotton Seed LL	thous	1.15
Cypermethrin	oz	0.47	Cotton Seed LLB2	thous	1.16
Denim 0.16 EC	pt	30.23	Cotton Seed RF	thous	0.63
Diamond .83EC	pt	17.83	Cotton Seed W	thous	0.67
Dimethoate 4E	pt	5.45	Cotton Seed WRF	thous	0.67
Dimilin 2L	oz	1.84	Peanut Seed	lb	1.13
Dipel DF	lb	13.98	Rice Clearfield	lb	0.85
Dipel ES	pt	5.28	Rice Clearfield Hyb	lb	6.90
Discipline 2 EC	oz	0.78	Rice Conv. Hybrid	lb	5.34
Endigo ZC	pt	29.19	Rice Seed (Levees)	lb	0.29
Fanfare 2EC	oz	0.78	Rice Seed CF(Levees)	lb	0.85
Force 3G	lb	6.25	Rice Seed CFH(Levee)	lb	6.90
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.29
Furadan 4FLFR	pt	9.81	Rice Seed Std.Blend	lb	2.30
Gaucha 600	oz	5.75	Sorghum Concept	lb	2.03
Hero	pt	23.05	Soybean Seed LL	lb	1.13
Holster	pt	0.80	Soybean Seed RR2	lb	1.04
Imidan 70 WSB	oz	0.70	Wheat Seed Private	lb	0.37
Incidental Pest Trt	acre	12.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
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
B2RF Cot Tech Fee	thous	1.49	WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2013

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.50
Gasoline	gal	3.40
LP Gas	gal	2.00
INTEREST RATES		
Short-term	%	4.25
Intermediate-term	%	5.25

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2013

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.71
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, 2013

	Unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '13	6.32	-0.3012	6.02	2.09	6.02
Cotton Lint	lb	Dec '13	0.770	-0.0276	0.743	.524	0.74
Cottonseed	lb						0.103 ^f
Grain Sorghum	bu				5.72	3.61	5.72
Peanuts	ton				575.00	355.00	575.00
Soybeans	bu	Nov '13	13.35	-0.3030	13.05	5.21	13.05
Rice	bu	Sep '13	7.07	-0.8110	6.25	2.97	6.25
Wheat	bu	Jul '13	8.51	-0.6908	7.82	2.87	7.82

^a Average of the futures contract month closings in October.

^b The basis is computed by subtracting the 2001-2012 average near futures contract month closings in October from the daily spot cash prices reported in October. 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 2012 crop year for soybeans, corn, grain sorghum, and wheat. 2012 Mississippi base loan rate for the Delta area for cotton. 2012 Mississippi loan rate for long grain rice. 2012 national average loan rate for peanuts.

^e Price used in the 2013 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2008-2012, Agricultural Prices Summary, USDA.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968."
4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2012 Planning Budgets." Budget Report No. 2011-03, Department of Agricultural Economics, Mississippi State University, December 2011.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2012 Planning Budgets." Budget Report No. 2011-01, Department of Agricultural Economics, Mississippi State University, December 2011.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2012 Planning Budgets." Budget Report No. 2012-01, Department of Agricultural Economics, Mississippi State University, May 2012.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Mississippi Agricultural Statistics." Mississippi Department of Agriculture and Commerce and Department of Agriculture, Mississippi Agriculture Statistical Service, Jackson, Mississippi.
16. "Rice 2012 Planning Budgets." Budget Report No. 2011-04, Department of Agricultural Economics, Mississippi State University, December 2011.
17. "Soybeans 2012 Planning Budgets." Budget Report No. 2011-02, Department of Agricultural Economics, Mississippi State University, December 2011.
18. "Vegetables 2012 Planning Budgets." Budget Report No. 2011-08, Department of Agricultural Economics, Mississippi State University December 2011.
19. "Peanuts 2012 Planning Budgets." Budget Report No. 2011-07, Department of Agricultural Economics, Mississippi State University, December 2011.



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