

**NON-DELTA  
2011  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2010-16**

**December 2010**



## 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 2011 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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## Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2011 Budget Committees.....	ii
2011 Planning Budgets .....	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures .....	1
Production Practices .....	1
Machinery .....	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns .....	3
Irrigation Costs .....	3
Enterprise Budgets	
Table	
1    Cotton, 8R-38", solid, conservation tillage B2RF variety, Non-Delta Area .....	6
2    Cotton, 8R-38", solid, no-till B2RF variety, Non-Delta Area .....	12
3    Soybeans, early-planted, RR, reduced tillage, 12R 20" Non-Delta Area.....	18
4    Soybeans, May-planted, RR, convent. tillage, 12R 20" Non-Delta Area.....	24
5    Soybeans after wheat, RR, no-till, 12R 20" Non-Delta Area.....	30
6    Corn, stale seedbed, RR seed, 8-row 30", 135 bu yield goal All Areas.....	36
7    Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal Non-Delta Areas .....	42
8    Grain sorghum, 12-row 30", 100 bu yield goal All Areas.....	48
9    Wheat followed by soybeans, 70 bu yield goal All Areas.....	54

Appendix  
Table

1	Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour .....	62
2	Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per hour .....	63
3	Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre .....	64
4	Operating inputs: estimated prices .....	71
5	Estimated fuel prices and interest rates .....	75
6	Labor types, wage rates and unallocated labor multipliers for crop enterprises.....	75
7	Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets .....	76
Literature Cited .....		77

# 2011 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 2010. (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 2010 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 1.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	22.00	0.1750	3.85	_____
Potash (60% K2O)	cwt	23.00	1.4000	32.20	_____
UAN (32% N)	cwt	12.50	3.6000	45.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.74	1.0000	1.74	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.1134	12.65	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	1.1322	12.84	_____
DIESEL FUEL					
Tractors	gal	2.39	10.8888	26.03	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	4.45	1.0000	4.45	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				517.42	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				104.86	_____
TOTAL SPECIFIED EXPENSES				622.28	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	750.0000	634.50	_____
Cotton Seed	lb	0.06	1125.0000	77.63	_____
				-----	
TOTAL INCOME				712.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	81.05	1.0000	81.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	33.01	1.0000	33.01	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.7289	6.61	_____
OPERATOR LABOR	hour	11.35	1.4152	16.08	_____
UNALLOCATED LABOR	hour	11.34	1.1322	12.84	_____
DIESEL FUEL	gal	2.39	15.9294	38.08	_____
REPAIR & MAINTENANCE	acre	28.40	1.0000	28.40	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
				-----	
TOTAL DIRECT EXPENSES				517.42	_____
RETURNS ABOVE DIRECT EXPENSES				194.71	_____
				-----	
TOTAL FIXED EXPENSES				104.86	_____
				-----	
TOTAL SPECIFIED EXPENSES				622.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.85	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 1.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

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					0.1750				
Paratill & Bed Fold.	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
2,4-D Amine 4	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)Rdg	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 B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
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	Jul		0.06	0.06	0.10	0.05
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Mepiquat Chloride	oz					8.0000				
Acephate 90%	lb					0.5500				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(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							1.41	1.11	2.14	1.13

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 1.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
B2RF variety, Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Phosphorus(46% P2O5)	cwt	3.85						0.17	4.02	4.02
Paratill & Bed Fold.	8R-38		1.89	1.79	1.65			0.23	5.56	4.74 10.30
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
2,4-D Amine 4	pt	1.74						0.05	1.79	1.79
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Disk Bed (Hipper)Rdg	8R-38		0.87	0.29	0.76			0.06	1.98	1.35 3.33
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Potash (60% K2O)	cwt	32.20						0.93	33.13	33.13
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.12	5.00	2.98 7.98
UAN (32% N)	cwt	22.50						0.57	23.07	23.07
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31 5.41
Plant & Pre-Rigid	8R-38		1.88	1.31	2.37			0.12	5.68	4.04 9.72
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98 7.95
UAN (32% N)	cwt	22.50						0.41	22.91	22.91
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.06	3.90	2.16 6.06
Diuron 80%	lb	4.55						0.07	4.62	4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57	3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Acephate 90%	lb	4.52						0.07	4.59	4.59
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48 0.96
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46 90.43
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81 23.67
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83 27.53
Gin & Haul	lb	67.50						0.24	67.74	67.74
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82 10.71
TOTALS		406.52	38.08	28.40	35.53	0.00	8.89	517.42	104.86	622.28

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 1.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

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	712.13
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	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	67.50
FERTILIZERS	3.85	0.00	0.00	0.00	32.20	22.50	0.00	22.50	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	5.26	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	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	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	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	2.00	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	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.65	0.00	0.00	0.00	0.76	1.93	4.03	2.37	1.67	0.00	0.22	22.90
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	1.89	0.00	0.00	0.00	0.87	1.81	3.66	2.19	1.56	0.00	0.19	25.91
REPAIR & MAINTENANCE	1.79	0.00	0.00	0.00	0.29	1.14	1.86	1.28	0.61	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.40	0.00	0.00	0.00	1.48	0.69	3.26	0.74	0.60	0.11	0.12	0.49
TOTAL DIRECT EXPENSES	33.58	0.00	0.00	0.00	52.61	28.07	154.28	41.84	41.97	10.27	16.64	138.16
NET INCOME	-33.58	0.00	0.00	0.00	-52.61	-28.07	-154.28	-41.84	-41.97	-10.27	-16.64	573.97
NET INCOME TO DATE	-33.58	-33.58	-33.58	-33.58	-86.19	-114.26	-268.54	-310.38	-352.35	-362.62	-379.26	194.71

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	-----dollars-----										
50	375.00	lb	-167	-152	-136	-120	-104	-88	-72	-56	-41	-25	-9
			-272	-256	-241	-225	-209	-193	-177	-161	-145	-130	-114
60	450.00	lb	-127	-108	-89	-70	-51	-31	-12	6	25	44	63
			-232	-212	-193	-174	-155	-136	-117	-98	-79	-60	-41
70	525.00	lb	-86	-64	-41	-19	2	24	46	69	91	113	135
			-191	-169	-146	-124	-102	-80	-57	-35	-13	8	30
80	600.00	lb	-45	-20	5	30	55	81	106	132	157	182	208
			-150	-125	-99	-74	-48	-23	1	27	52	78	103
90	675.00	lb	-4	23	52	80	109	138	166	195	223	252	280
			-109	-81	-52	-23	4	33	61	90	118	147	175
100	750.00	lb	36	67	99	131	162	194	226	258	289	321	353
			-68	-37	-5	26	58	89	121	153	185	216	248
110	825.00	lb	76	111	146	181	216	251	286	321	356	390	425
			-27	6	41	76	111	146	181	216	251	286	321
120	900.00	lb	117	155	193	231	269	308	346	384	422	460	498
			12	50	88	127	165	203	241	279	317	355	393
130	975.00	lb	158	199	241	282	323	364	405	447	488	529	570
			53	94	136	177	218	259	301	342	383	424	466
140	1050.00	lb	199	243	288	332	376	421	465	510	554	599	643
			94	138	183	227	272	316	360	405	449	494	538
150	1125.00	lb	240	287	335	382	430	478	525	573	620	668	716
			135	182	230	278	325	373	420	468	515	563	611

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 2.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.1750	3.85	_____
Amm Nitrate (34% N)	cwt	18.00	1.8000	32.40	_____
Potash (60% K2O)	cwt	23.00	1.4000	32.20	_____
UAN (32% N)	cwt	12.50	1.8000	22.50	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.74	1.0000	1.74	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.9212	10.47	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	0.9785	11.10	_____
DIESEL FUEL					
Tractors	gal	2.39	9.0100	21.53	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	3.68	1.0000	3.68	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				515.54	_____
FIXED EXPENSES					
Implements	acre	12.52	1.0000	12.52	_____
Tractors	acre	23.87	1.0000	23.87	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				96.23	_____
TOTAL SPECIFIED EXPENSES				611.77	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	750.0000	634.50	_____
Cotton Seed	lb	0.06	1125.0000	77.63	_____
				-----	
TOTAL INCOME				712.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	90.95	1.0000	90.95	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	33.01	1.0000	33.01	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.6934	6.29	_____
OPERATOR LABOR	hour	11.35	1.2231	13.90	_____
UNALLOCATED LABOR	hour	11.34	0.9785	11.10	_____
DIESEL FUEL	gal	2.39	14.0506	33.58	_____
REPAIR & MAINTENANCE	acre	25.36	1.0000	25.36	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
				-----	
TOTAL DIRECT EXPENSES				515.54	_____
RETURNS ABOVE DIRECT EXPENSES				196.59	_____
TOTAL FIXED EXPENSES					
				96.23	_____
				-----	
TOTAL SPECIFIED EXPENSES				611.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				100.36	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 2.C Estimated resource use for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2RF variety, Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
Phosphorus(46% P2O5)	cwt					0.1750				
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
2,4-D Amine 4	pt					1.0000				
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				
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					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
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 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Mepiquat Chloride	oz					8.0000				
Acephate 90%	lb					0.5500				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(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							1.22	0.92	1.91	0.97

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 2.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2RF variety, Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Phosphorus(46% P2O5)	cwt	3.85						0.17	4.02	4.02
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
2,4-D Amine 4	pt	1.74						0.05	1.79	1.79
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Amm Nitrate (34% N)	cwt	32.40						0.94	33.34	33.34
Potash (60% K2O)	cwt	32.20						0.93	33.13	33.13
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31
NT Plant&Pre-Rigid	8R-38		1.95	1.49	2.47			0.13	6.04	4.48
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Dual Magnum	pt	12.64						0.27	12.91	12.91
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98
UAN (32% N)	cwt	22.50						0.41	22.91	22.91
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.07	3.91	2.16
Diuron 80%	lb	4.55						0.08	4.63	4.63
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Acephate 90%	lb	4.52						0.07	4.59	4.59
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83
Gin & Haul	lb	67.50						0.24	67.74	67.74
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82
TOTALS		416.42	33.58	25.36	31.29	0.00	8.89	515.54	96.23	611.77

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 2.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

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	712.13
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	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	67.50
FERTILIZERS	3.85	0.00	0.00	0.00	64.60	0.00	0.00	22.50	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	5.26	0.00	16.16	11.59	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	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	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	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	2.00	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	23.00	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	4.13	4.04	0.00	0.00	0.22	22.90
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	3.73	3.75	0.00	0.00	0.19	25.91
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.04	1.89	0.00	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.17	0.00	0.00	0.00	2.36	0.00	3.27	0.95	0.42	0.11	0.12	0.49
TOTAL DIRECT EXPENSES	28.02	0.00	0.00	0.00	83.97	0.00	154.64	53.96	29.88	10.27	16.64	138.16
NET INCOME	-28.02	0.00	0.00	0.00	-83.97	0.00	-154.64	-53.96	-29.88	-10.27	-16.64	573.97
NET INCOME TO DATE	-28.02	-28.02	-28.02	-28.02	-111.99	-111.99	-266.63	-320.59	-350.47	-360.74	-377.38	196.59

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05
PERCENT	YIELD	UNIT	dollars										
50	375.00	lb	-166 -262	-150 -246	-134 -230	-118 -214	-102 -198	-86 -183	-70 -167	-55 -151	-39 -135	-23 -119	-7 -103
60	450.00	lb	-125 -221	-106 -202	-87 -183	-68 -164	-49 -145	-30 -126	-11 -107	7 -88	26 -69	46 -50	65 -31
70	525.00	lb	-84 -180	-62 -158	-40 -136	-17 -114	4 -91	26 -69	48 -47	70 -25	93 -3	115 19	137 41
80	600.00	lb	-43 -139	-18 -114	7 -89	32 -63	57 -38	83 -12	108 12	133 37	159 63	184 88	210 113
90	675.00	lb	-2 -99	25 -70	54 -41	82 -13	111 15	139 43	168 72	197 100	225 129	254 157	282 186
100	750.00	lb	37 -58	69 -26	101 5	133 36	164 68	196 100	228 132	260 163	291 195	323 227	355 258
110	825.00	lb	78 -17	113 17	148 52	183 87	218 122	253 157	288 191	323 226	357 261	392 296	427 331
120	900.00	lb	119 23	157 61	195 99	233 137	271 175	309 213	348 251	386 289	424 327	462 365	500 404
130	975.00	lb	160 64	201 105	242 146	284 187	325 229	366 270	407 311	449 352	490 394	531 435	572 476
140	1050.00	lb	201 104	245 149	290 193	334 238	378 282	423 327	467 371	512 415	556 460	600 504	645 549
150	1125.00	lb	242 145	289 193	337 240	384 288	432 336	479 383	527 431	575 478	622 526	670 574	717 621

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 2010 input prices.

Table 3.A Estimated costs per acre  
Soybeans, early-planted, RR, reduced tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.5000	8.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	8.0000	2.00	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.6600	14.52	_____
Potash (60% K2O)	cwt	23.00	1.0000	23.00	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Headline	oz	2.60	3.0000	7.80	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	6.0000	10.50	_____
2,4-D Amine 4	pt	1.74	2.0000	3.48	_____
Valor SX	oz	4.72	2.0000	9.44	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	43.0000	11.18	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2500	11.50	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3791	4.31	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1857	1.68	_____
UNALLOCATED LABOR	hour	11.35	0.4332	4.92	_____
DIESEL FUEL					
Tractors	gal	2.39	3.7083	8.85	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.86	1.0000	3.86	_____
Tractors	acre	1.52	1.0000	1.52	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	5.22	1.0000	5.22	_____
				-----	
TOTAL DIRECT EXPENSES				214.62	_____
FIXED EXPENSES					
Implements	acre	8.09	1.0000	8.09	_____
Tractors	acre	9.82	1.0000	9.82	_____
Harvesters	acre	9.99	1.0000	9.99	_____
				-----	
TOTAL FIXED EXPENSES				27.90	_____
				-----	
TOTAL SPECIFIED EXPENSES				242.52	_____

Note: Cost of production estimates are based on 2010 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 3.B Summary of estimated costs and returns per acre  
Soybeans, early-planted, RR, reduced tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	43.0000	473.00	_____
				-----	
TOTAL INCOME				473.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.25	1.0000	8.25	_____
HARVEST AIDS	acre	2.00	1.0000	2.00	_____
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.65	1.0000	9.65	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	11.41	1.0000	11.41	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	11.18	1.0000	11.18	_____
CUSTOM LIME	acre	11.50	1.0000	11.50	_____
HAND LABOR	hour	9.06	0.1857	1.68	_____
OPERATOR LABOR	hour	11.35	0.4813	5.47	_____
UNALLOCATED LABOR	hour	11.35	0.4332	4.92	_____
DIESEL FUEL	gal	2.39	5.1019	12.18	_____
REPAIR & MAINTENANCE	acre	7.84	1.0000	7.84	_____
INTEREST ON OP. CAP.	acre	5.22	1.0000	5.22	_____
				-----	
TOTAL DIRECT EXPENSES				214.62	_____
RETURNS ABOVE DIRECT EXPENSES				258.38	_____
TOTAL FIXED EXPENSES				27.90	_____
				-----	
TOTAL SPECIFIED EXPENSES				242.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				230.48	_____

Note: Cost of production estimates are based on 2010 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 3.C Estimated resource use for field operations, per acre  
Soybeans, early-planted, RR, reduced tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

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 - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaucho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Headline	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				
Gramoxone Inteon	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							0.48	0.48	0.66	0.43

Note: Cost of production estimates are based on 2010 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 3.D Estimated costs for field operations, per acre  
Soybeans, early-planted, RR, reduced tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	11.50						0.50	12.00		12.00
Spin Spreader	5 ton		0.98	0.42	1.29			0.12	2.81	1.61	4.42
Phosphorus(46% P2O5)	cwt	14.52						0.63	15.15		15.15
Potash (60% K2O)	cwt	23.00						1.00	24.00		24.00
Disk Harrow	24'		1.91	1.08	1.77			0.21	4.97	3.77	8.74
Field Cultivate Fld	24'		1.45	0.62	1.35			0.15	3.57	3.22	6.79
App by Air ( 5 gal)	appl	5.50						0.14	5.64		5.64
Glyphosate 3lbs a.e.	pt	3.50						0.09	3.59		3.59
2,4-D Amine 4	pt	3.48						0.09	3.57		3.57
Valor SX	oz	9.44						0.24	9.68		9.68
Plant - Rigid	12R-20		2.20	1.72	2.88			0.15	6.95	5.10	12.05
Soybean Seed RR	lb	49.50						1.07	50.57		50.57
Apron Maxx RTA	oz	1.85						0.04	1.89		1.89
Gaucho 600	oz	6.56						0.14	6.70		6.70
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Headline	oz	7.80						0.08	7.88		7.88
Spray (Broadcast)	60'		0.66	0.24	0.74			0.01	1.65	0.89	2.54
Acephate 90SP	lb	4.85						0.04	4.89		4.89
App by Air ( 5 gal)	appl	2.75						0.02	2.77		2.77
Gramoxone Inteon	oz	2.00						0.01	2.01		2.01
Surfactant	pt	0.24							0.24		0.24
Header -Soybean	25' Flex		3.33	3.16	2.20			0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	11.18						0.04	11.22		11.22
<b>TOTALS</b>		<b>177.31</b>	<b>12.18</b>	<b>7.84</b>	<b>12.07</b>	<b>0.00</b>	<b>5.22</b>	<b>214.62</b>	<b>27.90</b>	<b>242.52</b>	

Note: Cost of production estimates are based on 2010 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 3.E Estimated monthly income and expense flows per acre  
Soybeans, early-planted, RR, reduced tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

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	473.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	2.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
FERTILIZERS	37.52	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	1.85	0.00	0.00	7.80	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	16.42	0.00	19.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	0.00	4.85	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.18
CUSTOM LIME	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.41	0.00	0.00	0.00	0.00	0.00	2.88	1.48	0.00	0.36	0.74	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.34	0.00	0.00	0.00	0.00	0.00	2.20	1.32	0.00	0.33	0.66	3.33
REPAIR & MAINTENANCE	2.12	0.00	0.00	0.00	0.00	0.00	1.72	0.48	0.00	0.12	0.24	3.16
INTEREST ON OP. CAP.	2.61	0.00	0.00	0.00	0.00	0.56	1.40	0.41	0.00	0.09	0.08	0.07
TOTAL DIRECT EXPENSES	62.50	0.00	0.00	0.00	0.00	22.48	66.11	23.33	0.00	8.70	11.56	19.94
NET INCOME	-62.50	0.00	0.00	0.00	0.00	-22.48	-66.11	-23.33	0.00	-8.70	-11.56	453.06
NET INCOME TO DATE	-62.50	-62.50	-62.50	-62.50	-62.50	-84.98	-151.09	-174.42	-174.42	-183.12	-194.68	258.38

Note: Cost of production estimates are based on 2010 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 3.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, early-planted, RR, reduced tillage, 12R 20"  
 Non-Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	-----dollars-----										
50	21.50	bu	-31	-19	-7	3	15	27	39	51	62	74	86
			-59	-47	-35	-24	-12	-0	11	23	35	46	58
60	25.80	bu	2	16	31	45	59	73	87	102	116	130	144
			-25	-10	3	17	31	45	59	74	88	102	116
70	30.10	bu	37	53	70	86	103	119	136	152	169	186	202
			9	25	42	58	75	91	108	125	141	158	174
80	34.40	bu	71	90	109	128	147	166	184	203	222	241	260
			43	62	81	100	119	138	157	175	194	213	232
90	38.70	bu	105	127	148	169	190	212	233	254	276	297	318
			77	99	120	141	163	184	205	226	248	269	290
100	43.00	bu	140	163	187	211	234	258	282	305	329	352	376
			112	135	159	183	206	230	254	277	301	325	348
110	47.30	bu	174	200	226	252	278	304	330	356	382	408	434
			146	172	198	224	250	276	302	328	354	380	406
120	51.60	bu	208	237	265	293	322	350	379	407	435	464	492
			180	209	237	266	294	322	351	379	407	436	464
130	55.90	bu	243	273	304	335	366	396	427	458	489	519	550
			215	246	276	307	338	369	399	430	461	491	522
140	60.20	bu	277	310	343	376	409	443	476	509	542	575	608
			249	282	315	348	382	415	448	481	514	547	580
150	64.50	bu	311	347	382	418	453	489	524	560	595	631	666
			283	319	354	390	425	461	496	532	567	603	638

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 2010 input prices.

Table 4.A Estimated costs per acre  
Soybeans, May-planted, RR, convent. tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	22.00	0.6600	14.52	_____
Potash (60% K2O)	cwt	23.00	1.0000	23.00	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	3.0000	7.56	_____
HERBICIDES					
Dual Magnum	pt	12.64	1.0000	12.64	_____
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Dimilin 2L	oz	1.73	1.0000	1.73	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	2.0000	3.32	_____
Baythroid XL	oz	2.17	1.0650	2.31	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.0500	0.12	_____
HAULING					
Haul Soybeans/Field	bu	0.26	30.0000	7.80	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2500	11.50	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4005	4.55	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.2000	1.81	_____
UNALLOCATED LABOR	hour	11.36	0.4524	5.14	_____
DIESEL FUEL					
Tractors	gal	2.39	3.9172	9.35	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	4.21	1.0000	4.21	_____
Tractors	acre	1.60	1.0000	1.60	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.95	1.0000	3.95	_____
TOTAL DIRECT EXPENSES				191.82	_____
FIXED EXPENSES					
Implements	acre	8.75	1.0000	8.75	_____
Tractors	acre	10.38	1.0000	10.38	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				29.12	_____
TOTAL SPECIFIED EXPENSES				220.94	_____

Note: Cost of production estimates are based on 2010 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, May-planted, RR, convent. tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	30.0000	330.00	_____
				-----	
TOTAL INCOME				330.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	18.77	1.0000	18.77	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.12	1.0000	0.12	_____
HAULING	acre	7.80	1.0000	7.80	_____
CUSTOM LIME	acre	11.50	1.0000	11.50	_____
HAND LABOR	hour	9.06	0.2000	1.81	_____
OPERATOR LABOR	hour	11.35	0.5027	5.71	_____
UNALLOCATED LABOR	hour	11.36	0.4524	5.14	_____
DIESEL FUEL	gal	2.39	5.3107	12.68	_____
REPAIR & MAINTENANCE	acre	8.27	1.0000	8.27	_____
INTEREST ON OP. CAP.	acre	3.95	1.0000	3.95	_____
				-----	
TOTAL DIRECT EXPENSES				191.82	_____
RETURNS ABOVE DIRECT EXPENSES				138.18	_____
TOTAL FIXED EXPENSES				29.12	_____
				-----	
TOTAL SPECIFIED EXPENSES				220.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				109.06	_____

Note: Cost of production estimates are based on 2010 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, May-planted, RR, convent. tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

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-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaucha 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
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							0.50	0.50	0.70	0.45

Note: Cost of production estimates are based on 2010 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, May-planted, RR, convent. tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	11.50						0.50	12.00		12.00
Spin Spreader	5 ton		0.98	0.42	1.29			0.07	2.76	1.61	4.37
Phosphorus(46% P2O5)	cwt	14.52						0.37	14.89		14.89
Potash (60% K2O)	cwt	23.00						0.58	23.58		23.58
Disk Harrow	24'		1.91	1.08	1.77			0.12	4.88	3.77	8.65
Field Cultivate Fld	24'		1.45	0.62	1.35			0.07	3.49	3.22	6.71
Plant & Pre-Rigid	12R-20		2.37	2.03	3.11			0.16	7.67	5.87	13.54
Soybean Seed RR	lb	49.50						1.07	50.57		50.57
Apron Maxx RTA	oz	1.85						0.04	1.89		1.89
Gaicho 600	oz	6.56						0.14	6.70		6.70
Dual Magnum	pt	12.64						0.27	12.91		12.91
Spray (Broadcast)	60'		0.66	0.24	0.74			0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50						0.08	3.58		3.58
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Dimilin 2L	oz	1.73						0.02	1.75		1.75
Quadris	oz	7.56						0.11	7.67		7.67
Spray (Broadcast)	60'		0.66	0.24	0.74			0.02	1.66	0.89	2.55
Acephate 90SP	lb	4.85						0.05	4.90		4.90
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Intrepid 2F	oz	3.32						0.04	3.36		3.36
Baythroid XL	oz	2.31						0.03	2.34		2.34
Surfactant	pt	0.12							0.12		0.12
Header -Soybean	25' Flex		3.33	3.16	2.20			0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	7.80						0.03	7.83		7.83
TOTALS		154.26	12.68	8.27	12.66	0.00	3.95	191.82	29.12	220.94	

Note: Cost of production estimates are based on 2010 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, May-planted, RR, convent. tillage, 12R 20"  
Non-Delta Area, Mississippi, 2011

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	330.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	37.52	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	1.85	0.00	7.56	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	1.73	10.48	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	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	7.80
CUSTOM LIME	11.50	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	3.06	5.20	0.74	0.36	1.10	0.00	2.20
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	2.89	4.48	0.66	0.33	0.99	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	1.50	2.89	0.24	0.12	0.36	0.00	3.16
INTEREST ON OP. CAP.	0.50	0.00	0.00	0.00	0.00	1.14	1.87	0.09	0.14	0.15	0.00	0.06
TOTAL DIRECT EXPENSES	12.00	0.00	0.00	0.00	0.00	46.11	88.49	5.23	10.24	13.20	0.00	16.55
NET INCOME	-12.00	0.00	0.00	0.00	0.00	-46.11	-88.49	-5.23	-10.24	-13.20	0.00	313.45
NET INCOME TO DATE	-12.00	-12.00	-12.00	-12.00	-12.00	-58.11	-146.60	-151.83	-162.07	-175.27	-175.27	138.18

Note: Cost of production estimates are based on 2010 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, May-planted, RR, convent. tillage, 12R 20"  
 Non-Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
	-----PRODUCT PRICE-----												
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	-----dollars-----										
50	15.00	bu	-64	-55	-47	-39	-31	-22	-14	-6	1	10	18
			-93	-85	-76	-68	-60	-52	-43	-35	-27	-19	-10
60	18.00	bu	-40	-30	-20	-10	-0	9	19	29	39	48	58
			-69	-59	-49	-39	-29	-19	-9	-0	9	19	29
70	21.00	bu	-16	-4	6	18	29	41	53	64	76	87	99
			-45	-33	-22	-10	0	12	23	35	47	58	70
80	24.00	bu	7	20	34	47	60	73	86	100	113	126	139
			-21	-8	5	18	31	44	57	71	84	97	110
90	27.00	bu	31	46	61	76	91	105	120	135	150	165	180
			2	17	32	47	61	76	91	106	121	136	151
100	30.00	bu	55	72	88	105	121	138	154	171	187	204	220
			26	43	59	76	92	109	125	142	158	175	191
110	33.00	bu	79	97	115	134	152	170	188	206	224	242	261
			50	68	86	104	123	141	159	177	195	213	232
120	36.00	bu	103	123	143	163	182	202	222	242	262	281	301
			74	94	114	133	153	173	193	213	232	252	272
130	39.00	bu	127	149	170	191	213	234	256	277	299	320	342
			98	119	141	162	184	205	227	248	270	291	312
140	42.00	bu	151	174	197	220	243	267	290	313	336	359	382
			122	145	168	191	214	237	261	284	307	330	353
150	45.00	bu	175	200	225	249	274	299	324	348	373	398	423
			146	171	195	220	245	270	294	319	344	369	393

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 2010 input prices.

Table 5.A Estimated costs per acre  
Soybeans after wheat, RR, no-till, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	22.00	0.6600	14.52	_____
Potash (60% K2O)	cwt	23.00	1.0000	23.00	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	3.0000	7.56	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	5.0000	8.75	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Dimilin 2L	oz	1.73	1.0000	1.73	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	3.0000	4.98	_____
Baythroid XL	oz	2.17	1.5975	3.47	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
HAULING					
Haul Soybeans/Field	bu	0.26	25.0000	6.50	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.2818	3.20	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.2148	1.95	_____
UNALLOCATED LABOR	hour	11.41	0.3302	3.77	_____
DIESEL FUEL					
Tractors	gal	2.39	2.7565	6.58	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.51	1.0000	3.51	_____
Tractors	acre	1.12	1.0000	1.12	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.69	1.0000	3.69	_____
				-----	
TOTAL DIRECT EXPENSES				176.68	_____
FIXED EXPENSES					
Implements	acre	6.24	1.0000	6.24	_____
Tractors	acre	7.31	1.0000	7.31	_____
Harvesters	acre	9.99	1.0000	9.99	_____
				-----	
TOTAL FIXED EXPENSES				23.54	_____
				-----	
TOTAL SPECIFIED EXPENSES				200.22	_____

Note: Cost of production estimates are based on 2010 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 after wheat, RR, no-till, 12R 20"  
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	25.0000	275.00	_____
				-----	
TOTAL INCOME				275.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	21.39	1.0000	21.39	_____
INSECTICIDES	acre	21.59	1.0000	21.59	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
HAULING	acre	6.50	1.0000	6.50	_____
HAND LABOR	hour	9.06	0.2148	1.95	_____
OPERATOR LABOR	hour	11.35	0.3840	4.36	_____
UNALLOCATED LABOR	hour	11.41	0.3302	3.77	_____
DIESEL FUEL	gal	2.39	4.1501	9.91	_____
REPAIR & MAINTENANCE	acre	7.09	1.0000	7.09	_____
INTEREST ON OP. CAP.	acre	3.69	1.0000	3.69	_____
				-----	
TOTAL DIRECT EXPENSES				176.68	_____
RETURNS ABOVE DIRECT EXPENSES				98.32	_____
TOTAL FIXED EXPENSES				23.54	_____
				-----	
TOTAL SPECIFIED EXPENSES				200.22	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				74.78	_____

Note: Cost of production estimates are based on 2010 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 after wheat, RR, no-till, 12R 20"  
Non-Delta Area, Mississippi, 2011

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-Rigid	12R-20	MFWD 190	0.105	1.00	Jun		0.10	0.10	0.21	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
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				
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							0.38	0.38	0.59	0.33

Note: Cost of production estimates are based on 2010 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 after wheat, RR, no-till, 12R 20"  
Non-Delta Area, Mississippi, 2011

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		0.98	0.42	1.27			0.12	2.79	1.61	4.40
Phosphorus(46% P2O5)	cwt	14.52						0.63	15.15		15.15
Potash (60% K2O)	cwt	23.00						1.00	24.00		24.00
Spray (Broadcast)	60'		0.66	0.24	0.73			0.03	1.66	0.89	2.55
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
NT Plant&Pre-Rigid	12R-20		2.47	2.37	3.19			0.14	8.17	6.61	14.78
Soybean Seed RR	lb	49.50						0.89	50.39		50.39
Apron Maxx RTA	oz	1.85						0.03	1.88		1.88
Gaucho 600	oz	6.56						0.12	6.68		6.68
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Glyphosate 3lbs a.e.	pt	3.50						0.05	3.55		3.55
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Glyphosate 3lbs a.e.	pt	1.75						0.03	1.78		1.78
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Dimilin 2L	oz	1.73						0.02	1.75		1.75
Quadris	oz	7.56						0.08	7.64		7.64
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Acephate 90SP	lb	4.85						0.05	4.90		4.90
Spray (Broadcast)	60'		0.49	0.18	0.55			0.01	1.23	0.67	1.90
Intrepid 2F	oz	4.98						0.05	5.03		5.03
Baythroid XL	oz	3.47						0.04	3.51		3.51
Header -Soybean	25' Flex		3.33	3.16	2.16			0.03	8.68	11.08	19.76
Haul Soybeans/Field	bu	6.50						0.02	6.52		6.52
TOTALS		145.91	9.91	7.09	10.08	0.00	3.69	176.68	23.54	200.22	

Note: Cost of production estimates are based on 2010 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 after wheat, RR, no-till, 12R 20"  
Non-Delta Area, Mississippi, 2011

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	275.00
DIRECT EXPENSES												
FERTILIZERS	37.52	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	1.85	0.00	7.56	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.14	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	15.03	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	6.50
LABOR	1.27	0.00	0.00	0.00	0.00	0.00	0.00	3.92	1.09	1.64	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	0.98	0.00	0.00	0.00	0.00	0.00	0.00	3.13	0.99	1.48	0.00	3.33
REPAIR & MAINTENANCE	0.42	0.00	0.00	0.00	0.00	0.00	0.00	2.61	0.36	0.54	0.00	3.16
INTEREST ON OP. CAP.	1.75	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.11	0.28	0.00	0.05
TOTAL DIRECT EXPENSES	41.94	0.00	0.00	0.00	0.00	0.00	0.00	85.21	7.80	26.53	0.00	15.20
NET INCOME	-41.94	0.00	0.00	0.00	0.00	0.00	0.00	-85.21	-7.80	-26.53	0.00	259.80
NET INCOME TO DATE	-41.94	-41.94	-41.94	-41.94	-41.94	-41.94	-41.94	-127.15	-134.95	-161.48	-161.48	98.32

Note: Cost of production estimates are based on 2010 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 after wheat, RR, no-till, 12R 20"  
 Non-Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-70	-63	-56	-49	-42	-35	-29	-22	-15	-8	-1
			-93	-86	-80	-73	-66	-59	-52	-45	-38	-31	-25
60	15.00	bu	-50	-42	-33	-25	-17	-9	-0	7	15	23	32
			-73	-65	-57	-49	-40	-32	-24	-16	-7	0	8
70	17.50	bu	-30	-20	-11	-1	8	17	27	37	46	56	65
			-53	-44	-34	-25	-15	-5	3	13	23	32	42
80	20.00	bu	-10	0	11	22	33	44	55	66	77	88	99
			-33	-22	-11	-0	10	21	32	43	54	65	76
90	22.50	bu	9	21	34	46	59	71	83	96	108	120	133
			-13	-1	10	23	35	47	60	72	85	97	109
100	25.00	bu	29	43	57	70	84	98	112	125	139	153	167
			6	19	33	47	61	74	88	102	116	129	143
110	27.50	bu	49	64	79	94	110	125	140	155	170	185	200
			26	41	56	71	86	101	116	131	147	162	177
120	30.00	bu	69	86	102	119	135	152	168	185	201	218	234
			45	62	78	95	111	128	144	161	177	194	210
130	32.50	bu	89	107	125	143	160	178	196	214	232	250	268
			65	83	101	119	137	155	173	191	208	226	244
140	35.00	bu	109	128	147	167	186	205	224	244	263	282	301
			85	105	124	143	162	182	201	220	239	259	278
150	37.50	bu	129	150	170	191	211	232	253	273	294	315	335
			105	126	147	167	188	209	229	250	270	291	312

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 2010 input prices.

Table 6.A Estimated costs per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.0870	27.18	_____
Potash (60% K2O)	cwt	23.00	0.8300	19.09	_____
UAN + Sulfur (28%)	cwt	12.00	2.1430	25.72	_____
UAN (32% N)	cwt	12.50	3.2815	41.02	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	11.86	0.5000	5.93	_____
Atrazine 4L	pt	2.10	4.0000	8.40	_____
Dual II Magnum	pt	13.26	1.3300	17.64	_____
Steadfast	oz	22.59	0.3750	8.47	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Corn Seed RR	thous	2.56	28.0000	71.68	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	135.0000	35.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5682	6.44	_____
Harvesters	hour	11.35	0.1277	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1995	1.80	_____
UNALLOCATED LABOR	hour	11.33	0.6263	7.10	_____
DIESEL FUEL					
Tractors	gal	2.39	4.9725	11.88	_____
Harvesters	gal	2.39	1.7419	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	7.61	1.0000	7.61	_____
Tractors	acre	2.28	1.0000	2.28	_____
Harvesters	acre	3.07	1.0000	3.07	_____
INTEREST ON OP. CAP.	acre	8.61	1.0000	8.61	_____
TOTAL DIRECT EXPENSES				363.52	_____
FIXED EXPENSES					
Implements	acre	11.06	1.0000	11.06	_____
Tractors	acre	14.82	1.0000	14.82	_____
Harvesters	acre	12.49	1.0000	12.49	_____
TOTAL FIXED EXPENSES				38.37	_____
TOTAL SPECIFIED EXPENSES				401.89	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.B Summary of estimated costs and returns per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	135.0000	654.75	_____
				-----	
TOTAL INCOME				654.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	113.01	1.0000	113.01	_____
HERBICIDES	acre	43.94	1.0000	43.94	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
SEED/PLANTS	acre	71.68	1.0000	71.68	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	35.10	1.0000	35.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1995	1.80	_____
OPERATOR LABOR	hour	11.35	0.6959	7.89	_____
UNALLOCATED LABOR	hour	11.33	0.6263	7.10	_____
DIESEL FUEL	gal	2.39	6.7145	16.04	_____
REPAIR & MAINTENANCE	acre	12.96	1.0000	12.96	_____
INTEREST ON OP. CAP.	acre	8.61	1.0000	8.61	_____
				-----	
TOTAL DIRECT EXPENSES				363.52	_____
RETURNS ABOVE DIRECT EXPENSES				291.23	_____
TOTAL FIXED EXPENSES				38.37	_____
				-----	
TOTAL SPECIFIED EXPENSES				401.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				252.86	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 6.C Estimated resource use for field operations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

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
Disk Bed 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 RR	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
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	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.69	0.69	0.89	0.62

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 6.D Estimated costs for field operations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.88	0.42	1.29			0.11	2.70	1.62	4.32
DAP	cwt	27.18						1.18	28.36		28.36
Potash (60% K20)	cwt	19.09						0.83	19.92		19.92
Disk Heavy	20'		2.03	1.23	2.09			0.23	5.58	4.37	9.95
Disk Bed w/roller	8R-30		1.96	0.80	2.02			0.21	4.99	3.59	8.58
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
Clarity	pt	5.93						0.17	6.10		6.10
Plant - Rigid	8R-30		1.97	1.48	2.88			0.16	6.49	4.63	11.12
Corn Seed RR	thous	71.68						1.81	73.49		73.49
Custom Apply Fert	acre	6.25						0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	25.72						0.56	26.28		26.28
Atrazine 4L	pt	8.40						0.18	8.58		8.58
Dual II Magnum	pt	17.64						0.38	18.02		18.02
Fert Appl (Liquid)	8R-30		2.05	1.33	2.55			0.11	6.04	3.66	9.70
UAN (32% N)	cwt	41.02						0.74	41.76		41.76
Spray (Broadcast)	60'		0.59	0.24	0.74			0.03	1.60	0.90	2.50
Steadfast	oz	8.47						0.15	8.62		8.62
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Intrepid 2F	oz	6.64						0.10	6.74		6.74
Header - Corn	8R-30		4.16	4.64	2.75			0.04	11.59	14.93	26.52
Grain Cart Corn	500 bu		0.67	0.31	0.69			0.01	1.68	1.16	2.84
Haul Corn/Field	bu	35.10						0.13	35.23		35.23
Stalk Shredder	20'		1.73	2.51	1.78			0.02	6.04	3.51	9.55
TOTALS		309.12	16.04	12.96	16.79	0.00	8.61	363.52	38.37	401.89	

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 6.E Estimated monthly income and expense flows per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

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	654.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	46.27	0.00	0.00	0.00	0.00	0.00	25.72	41.02	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	26.04	8.47	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	6.64	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	71.68	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	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	35.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.40	0.00	0.00	0.00	0.00	2.88	0.00	3.29	0.00	0.00	0.00	5.22
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.87	0.00	0.00	0.00	0.00	1.97	0.00	2.64	0.00	0.00	0.00	6.56
REPAIR & MAINTENANCE	2.45	0.00	0.00	0.00	0.00	1.48	0.00	1.57	0.00	0.00	0.00	7.46
INTEREST ON OP. CAP.	3.56	0.00	0.00	0.00	0.43	1.97	1.26	1.03	0.16	0.00	0.00	0.20
TOTAL DIRECT EXPENSES	85.55	0.00	0.00	0.00	15.36	79.98	59.27	58.02	10.80	0.00	0.00	54.54
NET INCOME	-85.55	0.00	0.00	0.00	-15.36	-79.98	-59.27	-58.02	-10.80	0.00	0.00	600.21
NET INCOME TO DATE	-85.55	-85.55	-85.55	-85.55	-100.91	-180.89	-240.16	-298.18	-308.98	-308.98	-308.98	291.23

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
	-----PRODUCT PRICE-----												
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-100 -138	-84 -122	-67 -106	-51 -89	-34 -73	-18 -56	-2 -40	14 -24	30 -7	46 8	63 24
60	81.00	bu	-54 -93	-35 -73	-15 -53	4 -34	23 -14	43 5	63 24	82 44	102 63	121 83	141 103
70	94.50	bu	-9 -47	13 -24	36 -1	59 21	82 44	105 67	128 89	151 112	174 135	197 158	219 181
80	108.00	bu	36 -1	62 24	88 50	114 76	141 102	167 128	193 155	219 181	245 207	272 233	298 259
90	121.50	bu	81 43	111 73	140 102	170 131	199 161	229 190	258 220	288 249	317 279	347 308	376 338
100	135.00	bu	127 89	160 121	193 154	225 187	258 220	291 252	323 285	356 318	389 351	422 383	454 416
110	148.50	bu	173 134	209 170	245 206	281 242	317 278	353 314	389 350	425 386	461 422	497 458	533 494
120	162.00	bu	218 180	257 219	297 258	336 298	375 337	415 376	454 416	493 455	532 494	572 533	611 573
130	175.50	bu	264 225	306 268	349 311	391 353	434 396	477 438	519 481	562 523	604 566	647 608	689 651
140	189.00	bu	309 271	355 317	401 363	447 409	493 454	539 500	584 546	630 592	676 638	722 683	768 729
150	202.50	bu	355 317	404 366	453 415	502 464	551 513	600 562	650 611	699 660	748 709	797 759	846 808

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 2010 input prices.

Table 7.A Estimated costs per acre  
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal  
 Non-Delta Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.0870	27.18	_____
Potash (60% K2O)	cwt	23.00	0.8300	19.09	_____
Fert 10-34-0	cwt	22.00	0.5000	11.00	_____
UAN (32% N)	cwt	12.50	5.0000	62.50	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Clarity	pt	11.86	0.5000	5.93	_____
Lexar	pt	5.56	3.3000	18.35	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Corn Seed BtRR	thous	2.90	28.0000	81.20	_____
HAULING					
Haul Corn/Field	bu	0.26	135.0000	35.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4231	4.80	_____
Harvesters	hour	11.35	0.1277	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.2283	2.06	_____
UNALLOCATED LABOR	hour	11.33	0.4957	5.62	_____
DIESEL FUEL					
Tractors	gal	2.39	3.2673	7.81	_____
Harvesters	gal	2.39	1.7419	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	6.86	1.0000	6.86	_____
Tractors	acre	1.37	1.0000	1.37	_____
Harvesters	acre	3.07	1.0000	3.07	_____
INTEREST ON OP. CAP.	acre	7.55	1.0000	7.55	_____
TOTAL DIRECT EXPENSES				351.24	_____
FIXED EXPENSES					
Implements	acre	9.09	1.0000	9.09	_____
Tractors	acre	8.51	1.0000	8.51	_____
Harvesters	acre	12.49	1.0000	12.49	_____
TOTAL FIXED EXPENSES				30.09	_____
TOTAL SPECIFIED EXPENSES				381.33	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

**Intrepid application is necessary only on refuge acres.**



Table 7.B Summary of estimated costs and returns per acre  
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal  
 Non-Delta Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	135.0000	654.75	_____
				-----	
TOTAL INCOME				654.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	119.77	1.0000	119.77	_____
HERBICIDES	acre	31.28	1.0000	31.28	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
SEED/PLANTS	acre	81.20	1.0000	81.20	_____
HAULING	acre	35.10	1.0000	35.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.2283	2.06	_____
OPERATOR LABOR	hour	11.35	0.5508	6.25	_____
UNALLOCATED LABOR	hour	11.33	0.4957	5.62	_____
DIESEL FUEL	gal	2.39	5.0092	11.97	_____
REPAIR & MAINTENANCE	acre	11.30	1.0000	11.30	_____
INTEREST ON OP. CAP.	acre	7.55	1.0000	7.55	_____
				-----	
TOTAL DIRECT EXPENSES				351.24	_____
RETURNS ABOVE DIRECT EXPENSES				303.51	_____
TOTAL FIXED EXPENSES				30.09	_____
				-----	
TOTAL SPECIFIED EXPENSES				381.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				273.42	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

**Intrepid application is necessary only on refuge acres.**

Table 7.C Estimated resource use for field operations, per acre  
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal  
 Non-Delta Areas, Mississippi, 2011

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
Glyphosate 3lbs a.e.	pt					2.0000				
Lexar	pt					3.3000				
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	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 2010 input prices.

**Fertilization decisions should be based on soil tests.**

**Intrepid application is necessary only on refuge acres.**

Table 7.D Estimated costs for field operations, per acre  
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal  
 Non-Delta Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Lime (Spread)	ton	23.00					1.00	24.00	24.00
App by Air ( 5 gal)	appl	5.50					0.16	5.66	5.66
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60	3.60
Clarity	pt	5.93					0.17	6.10	6.10
Spin Spreader	5 ton		0.78	0.39	1.29		0.06	2.52	1.37 3.89
DAP	cwt	27.18					0.69	27.87	27.87
Potash (60% K2O)	cwt	19.09					0.48	19.57	19.57
NT Plant&Pre-Rigid	8R-30		1.95	1.93	3.24		0.18	7.30	5.29 12.59
Corn Seed BtRR	thous	81.20					2.05	83.25	83.25
Fert 10-34-0	cwt	11.00					0.28	11.28	11.28
Spray (Broadcast)	27'		1.16	0.35	1.63		0.07	3.21	1.44 4.65
Glyphosate 3lbs a.e.	pt	3.50					0.08	3.58	3.58
Lexar	pt	18.35					0.40	18.75	18.75
Fert Appl (Liquid)	8R-30		1.81	1.26	2.55		0.12	5.74	3.07 8.81
UAN (32% N)	cwt	62.50					1.35	63.85	63.85
App by Air ( 3 gal)	appl	4.00					0.06	4.06	4.06
Intrepid 2F	oz	6.64					0.10	6.74	6.74
Header - Corn	8R-30		4.16	4.64	2.75		0.04	11.59	14.93 26.52
Grain Cart Corn	500 bu		0.59	0.28	0.69		0.01	1.57	0.97 2.54
Haul Corn/Field	bu	35.10					0.13	35.23	35.23
Stalk Shredder	20'		1.52	2.45	1.78		0.02	5.77	3.02 8.79
<b>TOTALS</b>		<b>306.49</b>	<b>11.97</b>	<b>11.30</b>	<b>13.93</b>	<b>0.00</b>	<b>7.55</b>	<b>351.24</b>	<b>30.09 381.33</b>

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

**Intrepid application is necessary only on refuge acres.**

Table 7.E Estimated monthly income and expense flows per acre  
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal  
 Non-Delta Areas, Mississippi, 2011

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	654.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	57.27	62.50	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	21.85	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	6.64	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	81.20	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	35.10
CUSTOM LIME	23.00	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	4.53	4.18	0.00	0.00	0.00	0.00	5.22
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	2.73	2.97	0.00	0.00	0.00	0.00	6.27
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	2.32	1.61	0.00	0.00	0.00	0.00	7.37
INTEREST ON OP. CAP.	1.00	0.00	0.00	0.00	0.43	3.74	2.02	0.00	0.16	0.00	0.00	0.20
TOTAL DIRECT EXPENSES	24.00	0.00	0.00	0.00	15.36	151.79	95.13	0.00	10.80	0.00	0.00	54.16
NET INCOME	-24.00	0.00	0.00	0.00	-15.36	-151.79	-95.13	0.00	-10.80	0.00	0.00	600.59
NET INCOME TO DATE	-24.00	-24.00	-24.00	-24.00	-39.36	-191.15	-286.28	-286.28	-297.08	-297.08	-297.08	303.51

Note: Cost of production estimates are based on 2010 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 7.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, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
	-----PRODUCT PRICE-----												
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-88 -118	-71 -101	-55 -85	-38 -69	-22 -52	-6 -36	10 -19	26 -3	42 12	59 29	75 45
60	81.00	bu	-42 -72	-22 -52	-3 -33	16 -13	36 5	55 25	75 45	94 64	114 84	134 104	153 123
70	94.50	bu	3 -27	25 -4	48 18	71 41	94 64	117 87	140 110	163 133	186 156	209 179	232 202
80	108.00	bu	48 18	74 44	101 70	127 97	153 123	179 149	205 175	231 201	258 228	284 254	310 280
90	121.50	bu	94 64	123 93	153 123	182 152	212 182	241 211	271 240	300 270	329 299	359 329	388 358
100	135.00	bu	139 109	172 142	205 175	238 207	270 240	303 273	336 306	368 338	401 371	434 404	467 437
110	148.50	bu	185 155	221 191	257 227	293 263	329 299	365 335	401 371	437 407	473 443	509 479	545 515
120	162.00	bu	230 200	270 240	309 279	348 318	388 358	427 397	466 436	505 475	545 515	584 554	623 593
130	175.50	bu	276 246	319 289	361 331	404 374	446 416	489 459	531 501	574 544	617 586	659 629	702 672
140	189.00	bu	322 292	367 337	413 383	459 429	505 475	551 521	597 567	642 612	688 658	734 704	780 750
150	202.50	bu	367 337	416 386	465 435	515 484	564 534	613 583	662 632	711 681	760 730	809 779	858 828

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 2010 input prices.

Table 8.A Estimated costs per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Custom Spray	acre	6.00	1.0000	6.00	_____
FERTILIZERS					
DAP	cwt	25.00	0.7600	19.00	_____
Potash (60% K2O)	cwt	23.00	0.5800	13.34	_____
UAN (32% N)	cwt	12.50	3.0690	38.36	_____
HERBICIDES					
Bicep II Magnum	qt	10.57	3.0000	31.71	_____
SEED/PLANTS					
Sorghum Concept	lb	1.77	6.0000	10.62	_____
HAULING					
Haul Sorghum/Field	bu	0.26	100.0000	26.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3434	3.90	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1756	1.59	_____
UNALLOCATED LABOR	hour	11.34	0.4010	4.55	_____
DIESEL FUEL					
Tractors	gal	2.39	3.0053	7.18	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	4.29	1.0000	4.29	_____
Tractors	acre	1.39	1.0000	1.39	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.81	1.0000	3.81	_____
TOTAL DIRECT EXPENSES				201.69	_____
FIXED EXPENSES					
Implements	acre	8.60	1.0000	8.60	_____
Tractors	acre	8.96	1.0000	8.96	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				27.55	_____
TOTAL SPECIFIED EXPENSES				229.24	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.B Summary of estimated costs and returns per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	4.56	100.0000	456.00	_____
				-----	
TOTAL INCOME				456.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.00	1.0000	6.00	_____
FERTILIZERS	acre	70.70	1.0000	70.70	_____
HERBICIDES	acre	31.71	1.0000	31.71	_____
SEED/PLANTS	acre	10.62	1.0000	10.62	_____
HAULING	acre	26.00	1.0000	26.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1756	1.59	_____
OPERATOR LABOR	hour	11.35	0.4456	5.06	_____
UNALLOCATED LABOR	hour	11.34	0.4010	4.55	_____
DIESEL FUEL	gal	2.39	4.3989	10.51	_____
REPAIR & MAINTENANCE	acre	8.14	1.0000	8.14	_____
INTEREST ON OP. CAP.	acre	3.81	1.0000	3.81	_____
				-----	
TOTAL DIRECT EXPENSES				201.69	_____
RETURNS ABOVE DIRECT EXPENSES				254.31	_____
TOTAL FIXED EXPENSES				27.55	_____
				-----	
TOTAL SPECIFIED EXPENSES				229.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				226.76	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.C Estimated resource use for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

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 - Rigid	12R-20	MFWD 170	0.094	1.00	May		0.09	0.09	0.18	0.08
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							0.44	0.44	0.62	0.40

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 8.D Estimated costs for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.88	0.42	1.29			0.06	2.65	1.62	4.27
DAP	cwt	19.00						0.41	19.41		19.41
Potash (60% K20)	cwt	13.34						0.29	13.63		13.63
Disk Harrow	24'		1.71	1.08	1.77			0.10	4.66	3.78	8.44
Field Cultivate Fld	32'		0.98	0.58	1.01			0.06	2.63	2.93	5.56
Plant - Rigid	12R-20		1.97	1.72	2.88			0.12	6.69	5.12	11.81
Sorghum Concept	lb	10.62						0.19	10.81		10.81
Custom Spray	acre	6.00						0.11	6.11		6.11
Bicep II Magnum	qt	31.71						0.57	32.28		32.28
Fert Appl (Liquid)	12R-30		1.64	1.27	2.05			0.09	5.05	3.16	8.21
UAN (32% N)	cwt	38.36						0.69	39.05		39.05
Header Wheat/Sorghum	25' Rigid		3.33	3.07	2.20			0.03	8.63	10.94	19.57
Haul Sorghum/Field	bu	26.00						0.09	26.09		26.09
TOTALS		168.03	10.51	8.14	11.20	0.00	3.81	201.69	27.55	229.24	

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.E Estimated monthly income and expense flows per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

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	456.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	32.34	38.36	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.71	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.62	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.00
CUSTOM LIME	23.00	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	4.07	4.93	0.00	0.00	0.00	2.20
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	3.57	3.61	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.99	0.00	0.00	0.00	3.07
INTEREST ON OP. CAP.	1.00	0.00	0.00	0.00	0.00	0.00	0.92	1.77	0.00	0.00	0.00	0.12
TOTAL DIRECT EXPENSES	24.00	0.00	0.00	0.00	0.00	0.00	42.98	99.99	0.00	0.00	0.00	34.72
NET INCOME	-24.00	0.00	0.00	0.00	0.00	0.00	-42.98	-99.99	0.00	0.00	0.00	421.28
NET INCOME TO DATE	-24.00	-24.00	-24.00	-24.00	-24.00	-24.00	-66.98	-166.97	-166.97	-166.97	-166.97	254.31

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Grain Sorghum			3.42	3.64	3.87	4.10	4.33	4.56	4.78	5.01	5.24	5.47	5.70
			PRODUCT PRICE										
PERCENT	YIELD	UNIT	dollars										
50	50.00	bu	-17	-6	5	16	27	39	50	62	73	84	96
			-45	-33	-22	-10	0	11	23	34	46	57	68
60	60.00	bu	13	27	41	54	68	82	96	109	123	137	150
			-13	0	13	27	41	54	68	82	95	109	123
70	70.00	bu	45	61	77	93	109	125	141	157	173	189	205
			17	33	49	65	81	97	113	129	145	161	177
80	80.00	bu	77	95	113	131	150	168	186	204	223	241	259
			49	67	86	104	122	140	159	177	195	213	231
90	90.00	bu	108	129	149	170	190	211	231	252	272	293	313
			81	101	122	142	163	183	204	224	245	265	286
100	100.00	bu	140	163	185	208	231	254	277	299	322	345	368
			112	135	158	181	203	226	249	272	295	317	340
110	110.00	bu	171	196	222	247	272	297	322	347	372	397	422
			144	169	194	219	244	269	294	319	344	370	395
120	120.00	bu	203	230	258	285	312	340	367	395	422	449	477
			175	203	230	258	285	312	340	367	394	422	449
130	130.00	bu	235	264	294	324	353	383	412	442	472	501	531
			207	237	266	296	326	355	385	415	444	474	503
140	140.00	bu	266	298	330	362	394	426	458	490	522	553	585
			239	271	302	334	366	398	430	462	494	526	558
150	150.00	bu	298	332	366	400	435	469	503	537	571	606	640
			270	304	339	373	407	441	475	510	544	578	612

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 2010 input prices.

Table 9.A Estimated costs per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
DAP	cwt	25.00	1.0000	25.00	_____
Potash (60% K2O)	cwt	23.00	0.7500	17.25	_____
Fert 41-0-0-4	cwt	18.50	2.8000	51.80	_____
FUNGICIDES					
Quilt	pt	20.25	0.8750	17.72	_____
HERBICIDES					
Osprey	oz	3.27	4.7500	15.53	_____
Harmony Extra SG	oz	12.76	0.9000	11.48	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.27	90.0000	24.30	_____
ADJUVANTS					
Surfactant	pt	2.44	1.6000	3.90	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	2.8000	17.50	_____
HAULING					
Haul Wheat/Field	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.2648	3.01	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	11.34	0.2936	3.33	_____
DIESEL FUEL					
Tractors	gal	2.39	2.3178	5.54	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.11	1.0000	3.11	_____
Tractors	acre	1.07	1.0000	1.07	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	6.19	1.0000	6.19	_____
TOTAL DIRECT EXPENSES				272.61	_____
FIXED EXPENSES					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	6.91	1.0000	6.91	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				23.93	_____
TOTAL SPECIFIED EXPENSES				296.54	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 9.B Summary of estimated costs and returns per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	6.75	70.0000	472.50	_____
				-----	
TOTAL INCOME				472.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	94.05	1.0000	94.05	_____
FUNGICIDES	acre	17.72	1.0000	17.72	_____
HERBICIDES	acre	27.01	1.0000	27.01	_____
SEED/PLANTS	acre	24.30	1.0000	24.30	_____
ADJUVANTS	acre	3.90	1.0000	3.90	_____
CUSTOM FERTILIZE	acre	17.50	1.0000	17.50	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	11.35	0.3670	4.17	_____
UNALLOCATED LABOR	hour	11.34	0.2936	3.33	_____
DIESEL FUEL	gal	2.39	3.7114	8.87	_____
REPAIR & MAINTENANCE	acre	6.64	1.0000	6.64	_____
INTEREST ON OP. CAP.	acre	6.19	1.0000	6.19	_____
				-----	
TOTAL DIRECT EXPENSES				272.61	_____
RETURNS ABOVE DIRECT EXPENSES				199.89	_____
TOTAL FIXED EXPENSES				23.93	_____
				-----	
TOTAL SPECIFIED EXPENSES				296.54	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				175.96	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.C Estimated resource use for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

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				
Osprey	oz					4.7500				
Surfactant	pt					1.5000				
App Fert by Air	cwt			1.00	Feb	1.4000				
Fert 41-0-0-4	cwt					1.4000				
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Harmony Extra SG	oz					0.9000				
Surfactant	pt					0.1000				
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 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.D Estimated costs for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Lime (Spread)	ton	23.00					0.83	23.83		23.83
Disk Harrow	24'		1.71	1.08	1.67		0.16	4.62	3.78	8.40
Spin Spreader	5 ton		0.88	0.42	1.24		0.09	2.63	1.62	4.25
DAP	cwt	25.00					0.90	25.90		25.90
Potash (60% K2O)	cwt	17.25					0.62	17.87		17.87
Field Cultivate Fld	32'		0.98	0.58	0.95		0.09	2.60	2.93	5.53
Grain Drill	20'		1.97	1.49	2.78		0.20	6.44	4.66	11.10
Wheat Seed Private	lb	24.30					0.79	25.09		25.09
App by Air ( 5 gal)	appl	5.50					0.16	5.66		5.66
Osprey	oz	15.53					0.45	15.98		15.98
Surfactant	pt	3.66					0.11	3.77		3.77
App Fert by Air	cwt	8.75					0.16	8.91		8.91
Fert 41-0-0-4	cwt	25.90					0.47	26.37		26.37
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Harmony Extra SG	oz	11.48					0.21	11.69		11.69
Surfactant	pt	0.24						0.24		0.24
App Fert by Air	cwt	8.75					0.13	8.88		8.88
Fert 41-0-0-4	cwt	25.90					0.37	26.27		26.27
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Quilt	pt	17.72					0.19	17.91		17.91
Header Wheat/Sorghum	25' Rigid		3.33	3.07	2.09		0.03	8.52	10.94	19.46
Haul Wheat/Field	bu	18.20					0.07	18.27		18.27
TOTALS		242.18	8.87	6.64	8.73	0.00	6.19	272.61	23.93	296.54

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.E Estimated monthly income and expense flows per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

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	472.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	5.50	0.00	5.50	0.00	0.00
FERTILIZERS	0.00	0.00	42.25	0.00	0.00	0.00	0.00	25.90	25.90	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.72	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.53	0.00	0.00	11.48	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	24.30	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	3.66	0.00	0.00	0.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.75	8.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	3.86	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
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	3.57	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	2.08	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07
INTEREST ON OP. CAP.	0.00	0.00	2.69	0.99	0.72	0.00	0.00	0.94	0.50	0.25	0.00	0.10
TOTAL DIRECT EXPENSES	0.00	0.00	77.45	31.53	25.41	0.00	0.00	52.81	35.15	23.47	0.00	26.79
NET INCOME	0.00	0.00	-77.45	-31.53	-25.41	0.00	0.00	-52.81	-35.15	-23.47	0.00	445.71
NET INCOME TO DATE	0.00	0.00	-77.45	-108.98	-134.39	-134.39	-134.39	-187.20	-222.35	-245.82	-245.82	199.89

Note: Cost of production estimates are based on 2010 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  
Wheat followed by soybeans, 70 bu yield goal  
All Areas, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Wheat			5.06	5.40	5.73	6.07	6.41	6.75	7.08	7.42	7.76	8.10	8.43
PERCENT	YIELD	UNIT	-----dollars-----										
50	35.00	bu	-86	-74	-62	-50	-39	-27	-15	-3	8	20	31
			-110	-98	-86	-74	-62	-51	-39	-27	-15	-3	7
60	42.00	bu	-52	-38	-24	-10	4	18	32	46	60	74	89
			-76	-62	-48	-34	-19	-5	8	22	36	50	65
70	49.00	bu	-19	-2	14	30	47	63	80	96	113	129	146
			-42	-26	-9	6	23	39	56	72	89	105	122
80	56.00	bu	14	33	52	71	90	109	127	146	165	184	203
			-9	9	28	47	66	85	104	122	141	160	179
90	63.00	bu	48	69	90	111	133	154	175	196	218	239	260
			24	45	66	88	109	130	151	173	194	215	236
100	70.00	bu	81	105	129	152	176	199	223	247	270	294	318
			57	81	105	128	152	175	199	223	246	270	294
110	77.00	bu	115	141	167	193	219	245	271	297	323	349	375
			91	117	143	169	195	221	247	273	299	325	351
120	84.00	bu	148	177	205	234	262	290	319	347	375	404	432
			125	153	181	210	238	266	295	323	351	380	408
130	91.00	bu	182	213	244	274	305	336	366	397	428	459	489
			158	189	220	250	281	312	342	373	404	435	465
140	98.00	bu	216	249	282	315	348	381	414	447	480	513	546
			192	225	258	291	324	357	390	423	456	489	523
150	105.00	bu	249	285	320	356	391	427	462	497	533	568	604
			225	261	296	332	367	403	438	473	509	544	580

The top number in each cell is Returns Above Direct Expenses.  
The bottom number in each cell is Returns Above Total Specified Expenses.  
Only the product listed has been varied to calculate net returns.  
Note: Cost of production estimates are based on 2010 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, 2011

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	231,000	300	8	13.64	11.35	32.59	24.06	68.01	97.79	165.80
Combine (300-349 hp)	325 hp	251,000	300	8	16.73	11.35	39.98	26.14	77.48	106.26	183.74
Combine (350-399 hp)	355 hp	269,000	300	8	18.27	11.35	43.66	28.02	83.03	113.88	196.91
Combine (400-449 hp)	425 hp	302,000	300	8	21.87	11.35	52.28	31.45	95.09	127.85	222.94
Combine (450-499hp)	475 hp	337,000	300	8	24.44	11.35	58.43	35.10	104.88	142.66	247.55
Cotton Stripper	173 hp	145,000	200	8	8.08	11.35	19.31	22.65	53.31	92.07	145.39
Tractor( 20-39hp)CB	MFWD 30	23,500	600	8	1.54	11.35	3.69	0.73	15.77	4.57	20.34
Tractor( 20-39hp)RB	MFWD 30	17,600	600	8	1.54	11.35	3.69	0.55	15.59	3.42	19.01
Tractor( 40-59hp)CB	2WD 50	29,300	600	8	2.57	11.35	6.15	0.91	18.41	5.69	24.11
Tractor( 40-59hp)CB	MFWD 50	31,900	600	8	2.57	11.35	6.15	0.99	18.49	6.20	24.70
Tractor( 40-59hp)RB	2WD 50	22,500	600	8	2.57	11.35	6.15	0.70	18.20	4.37	22.58
Tractor( 40-59hp)RB	MFWD 50	26,600	600	8	2.57	11.35	6.15	0.83	18.33	5.17	23.50
Tractor( 60-89hp)CB	2WD 75	40,100	600	8	3.86	11.35	9.22	1.25	21.82	7.80	29.63
Tractor( 60-89hp)CB	MFWD 75	43,900	600	8	3.86	11.35	9.22	1.37	21.94	8.53	30.48
Tractor( 60-89hp)RB	2WD 75	32,100	600	8	3.86	11.35	9.22	1.00	21.57	6.24	27.82
Tractor( 60-89hp)RB	MFWD 75	35,900	600	8	3.86	11.35	9.22	1.12	21.69	6.98	28.68
Tractor( 90-119hp)CB	2WD 105	62,800	600	8	5.40	11.35	12.91	1.96	26.22	12.21	38.44
Tractor( 90-119hp)CB	MFWD 105	67,600	600	8	5.40	11.35	12.91	2.11	26.37	13.15	39.52
Tractor( 90-119hp)RB	2WD 105	48,600	600	8	5.40	11.35	12.91	1.51	25.78	9.45	35.23
Tractor( 90-119hp)RB	MFWD 105	53,400	600	8	5.40	11.35	12.91	1.66	25.93	10.38	36.32
Tractor(120-139hp)CB	2WD 130	85,400	600	8	6.69	11.35	15.99	2.66	30.01	16.61	46.62
Tractor(120-139hp)CB	MFWD 130	92,200	600	8	6.69	11.35	15.99	2.88	30.22	17.93	48.15
Tractor(140-159hp)CB	2WD 150	103,300	600	8	7.72	11.35	18.45	3.22	33.03	20.09	53.12
Tractor(140-159hp)CB	MFWD 150	109,900	600	8	7.72	11.35	18.45	3.43	33.23	21.37	54.61
Tractor(160-179hp)CB	2WD 170	109,400	600	8	8.75	11.35	20.91	3.41	35.68	22.21	57.90
Tractor(160-179hp)CB	MFWD 170	128,400	600	8	8.75	11.35	20.91	4.01	36.27	26.07	62.35
Tractor(180-199hp)CB	MFWD 190	127,500	600	8	9.77	11.35	23.37	3.98	38.70	25.89	64.60
Tractor(200-249hp)CB	MFWD 225	161,400	600	8	11.58	11.35	27.67	5.04	44.07	32.78	76.85
Tractor(200-249hp)CB	Track 225	201,400	600	8	11.58	11.35	27.67	6.29	45.32	40.90	86.22
Tractor(250-349hp)CB	4WD 300	196,500	600	8	15.44	11.35	36.90	6.14	54.39	39.90	94.30
Tractor(250-349hp)CB	MFWD 300	200,500	600	8	15.44	11.35	36.90	6.26	54.52	40.72	95.24
Tractor(250-349hp)CB	Track 300	214,200	600	8	15.44	11.35	36.90	6.69	54.94	43.50	98.45
Tractor(350-449hp)CB	4WD 400	231,800	600	8	20.58	11.35	49.20	7.24	67.80	47.07	114.88
Tractor(350-449hp)CB	Track 400	264,700	600	8	20.58	11.35	49.20	8.27	68.82	53.76	122.59
Tractor(450-550hp)CB	4WD 500	272,200	600	8	25.73	11.35	61.50	8.50	81.36	55.28	136.64
Tractor(450-550hp)CB	Track 500	288,300	600	8	25.73	11.35	61.50	9.00	81.86	58.55	140.42
Utility Vehicle	500 CC	6,200	200	8	0.40	11.35	1.04	0.96	13.36	3.93	17.29
Utility Vehicle	600 CC	9,500	200	8	0.50	11.35	1.30	1.48	14.13	6.03	20.17
Utility Vehicle	800 CC	10,800	200	8	0.70	11.35	1.82	1.68	14.86	6.85	21.72

## 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, 2011

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	75,200	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30 (250)	262,000	200	8	12.86	0.327	6.68	10.06	13.40	30.15	54.46	84.62
Cotton Picker	4R-30 (350)	350,000	200	8	18.01	0.327	6.68	14.09	17.90	38.68	72.76	111.44
Cotton Picker	4R-38 (255)	291,000	200	8	13.12	0.257	5.26	8.08	11.72	25.06	47.63	72.70
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.26	11.09	14.13	30.49	57.45	87.95
Cotton Picker	4R2x1 (350)	380,000	200	8	18.01	0.172	3.51	7.41	10.23	21.16	41.57	62.74
Cotton Picker	5R-30 (250)	285,000	200	8	12.86	0.261	5.34	8.05	11.66	25.06	47.39	72.46
Cotton Picker	5R-36 (250)	290,000	200	8	12.86	0.207	4.22	6.37	9.38	19.99	38.15	58.14
Cotton Picker	6R-30 (355)	418,000	200	8	18.27	0.218	4.45	9.53	14.25	28.24	57.93	86.17
Cotton Picker	6R-38 (355)	417,000	200	8	18.27	0.172	3.51	7.52	11.22	22.26	45.62	67.89
Cotton Picker/Module	4R-38 (365)	470,000	200	8	18.78	0.257	5.26	11.57	18.93	35.76	76.93	112.70
Cotton Picker/Module	6R-30 (365)	523,000	200	8	18.78	0.218	4.45	9.79	17.83	32.08	72.48	104.57
Cotton Picker/Module	6R-30 (500)	570,000	200	8	25.73	0.218	4.45	13.42	19.43	37.31	78.99	116.31
Cotton Picker/Module	6R-38 (365)	521,000	200	8	18.78	0.172	3.51	7.73	14.02	25.28	57.00	82.28
Cotton Picker/Module	6R-38 (500)	571,000	200	8	25.73	0.172	3.51	10.59	15.37	29.48	62.47	91.96
Dry Applicator SP	70'300cuft	257,000	350	8	16.98	0.015	0.23	0.61	0.20	1.06	1.40	2.47
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.55	0.20	0.08	0.84	0.56	1.40
Sprayer 300-450gal	60' 125hp	96,400	350	8	5.66	0.017	0.27	0.23	0.09	0.60	0.61	1.22
Sprayer 300-450gal	80' 125hp	98,700	350	8	6.43	0.013	0.20	0.20	0.06	0.48	0.47	0.95
Sprayer 600-750gal	60' 175hp	149,000	350	8	9.00	0.017	0.27	0.37	0.14	0.79	0.95	1.75
Sprayer 600-825gal	80' 175hp	149,000	350	8	11.81	0.013	0.20	0.37	0.10	0.68	0.71	1.40
Sprayer 600-825gal	90' 250hp	216,000	350	8	12.73	0.011	0.18	0.35	0.13	0.68	0.92	1.60
Sprayer 800gal	100' 250hp	217,000	350	8	14.15	0.010	0.16	0.35	0.12	0.64	0.83	1.48
Sprayer 800gal	80' 250hp	206,000	350	8	12.86	0.013	0.20	0.40	0.14	0.76	0.98	1.75
Sprayer 1000-1400gal	90' 275hp	240,000	350	8	14.15	0.010	0.16	0.35	0.13	0.66	0.92	1.58
Sprayer 1000gal	100' 300hp	242,000	350	8	15.44	0.010	0.16	0.39	0.13	0.69	0.92	1.62
Sprayer 1200+gal	120' 300hp	258,000	350	8	15.44	0.008	0.13	0.32	0.12	0.58	0.82	1.41
Utility Vehicle	20'	10,750	200	8	0.50	0.052	0.83	0.06	0.08	0.99	0.36	1.35
Utility Vehicle	75"ropewic	6,740	200	8	0.40	0.170	2.70	0.17	0.17	3.06	0.73	3.79

## 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, 2011

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/Cond./Roll-Fold.	26'	MFWD 190	21,900	160	10	0.072	0.81	1.68	0.39	0.28	3.18	1.07	1.86	6.13
Bed/Cond./Roll-Fold.	30'	MFWD 190	30,400	160	10	0.062	0.70	1.46	0.47	0.24	2.89	1.29	1.61	5.81
Bed/Cond./Roll-Fold.	40'	MFWD 225	30,700	160	10	0.046	0.53	1.29	0.35	0.23	2.42	0.98	1.53	4.94
Bed/Cond./Roll-Rigid	21'	MFWD 190	16,500	160	10	0.089	1.01	2.08	0.36	0.35	3.82	1.00	2.31	7.14
Bed/Cond./Roll-Rigid	26'	MFWD 190	18,800	160	10	0.072	0.81	1.68	0.33	0.28	3.13	0.92	1.86	5.92
Bedder Roller Fold.	8R-38	MFWD 190	23,000	160	10	0.074	0.84	1.73	0.42	0.29	3.29	1.16	1.91	6.37
Bedder Roller Fold.	12R-30	MFWD 225	24,800	160	10	0.062	0.70	1.72	0.38	0.31	3.14	1.05	2.04	6.25
Bedder Roller-Fold.	12R-38	MFWD 225	27,000	160	10	0.049	0.56	1.36	0.33	0.24	2.50	0.91	1.61	5.03
Bedder Roller-Fold.	16R-30	MFWD 225	28,200	160	10	0.046	0.53	1.29	0.33	0.23	2.39	0.90	1.53	4.83
Bedder Roller-Rigid	8R-38	MFWD 190	17,100	160	10	0.074	0.84	1.73	0.31	0.29	3.18	0.86	1.91	5.97
Blade-Box	6'-7'	2WD 130	1,000	200	20	0.020	0.22	0.31	0.00	0.05	0.60	0.00	0.33	0.94
Blade-Box	8'-10'	2WD 50	4,440	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	6,170	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	2WD 50	1,150	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	2WD 50	3,060	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	5,930	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-30(250)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-30(325)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-38(255)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R-38(325)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R2x1(350)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy	5R-30(255)	MFWD 190	23,000	200	10	0.261	2.97	6.12	1.50	1.04	11.64	3.17	6.78	21.60
Boll Buggy	5R-38(250)	MFWD 190	23,000	200	10	0.207	2.35	4.84	1.19	0.82	9.21	2.51	5.36	17.09
Boll Buggy	6R-30(325)	MFWD 190	23,000	200	10	0.218	2.47	5.10	1.25	0.86	9.70	2.64	5.65	18.00
Boll Buggy	6R-38(330)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy-Stripper	13' Bcast	MFWD 150	23,000	200	10	0.251	2.85	4.64	1.44	0.86	9.81	3.05	5.38	18.25
Boll Buggy-Stripper	16' Bcast	MFWD 150	23,000	200	10	0.204	2.32	3.77	1.17	0.70	7.97	2.48	4.37	14.83
Boll Buggy-Stripper	19' Bcast	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	4R-36	MFWD 150	23,000	200	10	0.272	3.09	5.03	1.56	0.93	10.63	3.30	5.83	19.77
Boll Buggy-Stripper	4R-38	MFWD 150	23,000	200	10	0.257	2.92	4.75	1.48	0.88	10.05	3.12	5.51	18.68
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	5R-30	MFWD 150	23,000	200	10	0.261	2.97	4.83	1.50	0.89	10.21	3.17	5.59	18.98
Boll Buggy-Stripper	5R-38	MFWD 150	23,000	200	10	0.207	2.35	3.82	1.19	0.71	8.07	2.51	4.42	15.02
Boll Buggy-Stripper	6R-30	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	6R-38	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	8R-30	MFWD 150	23,000	200	10	0.163	1.85	3.02	0.94	0.56	6.38	1.98	3.49	11.86
Boll Buggy-Stripper	8R-36/38	MFWD 150	23,000	200	10	0.129	1.46	2.38	0.74	0.44	5.04	1.56	2.76	9.38
Chisel Plow-Folding	16'	2WD 130	19,900	150	12	0.115	1.31	1.84	0.83	0.30	4.29	1.49	1.91	7.71
Chisel Plow-Folding	24'	MFWD 190	30,300	150	12	0.076	0.86	1.78	0.83	0.30	3.79	1.50	1.97	7.28
Chisel Plow-Folding	32'	MFWD 225	35,100	150	12	0.057	0.65	1.59	0.73	0.29	3.27	1.32	1.89	6.49
Chisel Plow-Folding	42'	MFWD 225	39,300	150	12	0.044	0.49	1.21	0.62	0.22	2.56	1.12	1.44	5.13
Chisel Plow-Folding	50'	MFWD 225	50,000	150	10	0.036	0.41	1.02	0.80	0.18	2.43	1.34	1.21	4.99
Chisel Plow-Folding	61'	MFWD 225	64,700	150	12	0.030	0.34	0.83	0.70	0.15	2.04	1.27	0.99	4.31
Chisel Plow-Rigid	10'	MFWD 170	7,808	150	12	0.184	2.09	3.86	0.52	0.74	7.22	0.94	4.82	12.98
Chisel Plow-Rigid	15'	2WD 130	8,072	150	12	0.123	1.39	1.97	0.35	0.32	4.05	0.64	2.04	6.75
Chisel Plow-Rigid	20'	MFWD 225	8,271	150	12	0.102	1.16	2.84	0.30	0.51	4.83	0.55	3.36	8.75
Chisel Plow-Rigid	24'	MFWD 190	9,865	150	12	0.077	0.87	1.80	0.27	0.30	3.25	0.49	1.99	5.74
Chisel-Harrow	21 shank	2WD 190	9,500	150	12	0.088	0.99	2.05	0.30	0.30	3.66	0.54	1.96	6.17
Chisel-Harrow	27 shank	MFWD 225	11,600	150	12	0.068	0.77	1.89	0.28	0.34	3.30	0.51	2.24	6.06
Coulter-Chisel-Harro	21 shank	2WD 190	17,200	150	12	0.088	0.99	2.05	0.54	0.30	3.90	0.98	1.96	6.85
Coulter-Chisel-Harro	27 shank	MFWD 225	21,500	150	12	0.068	0.77	1.89	0.53	0.34	3.54	0.95	2.24	6.75
Cultivate	4R-30	2WD 105	9,370	150	10	0.206	2.34	2.66	0.51	0.40	5.92	1.40	2.51	9.85
Cultivate	4R-38	2WD 105	9,440	150	10	0.162	1.84	2.09	0.40	0.24	4.59	1.11	1.53	7.24
Cultivate	6R-30	MFWD 150	13,190	150	10	0.137	1.56	2.53	0.48	0.47	5.05	1.32	2.93	9.31
Cultivate	6R-38	MFWD 150	13,900	150	10	0.108	1.23	2.00	0.40	0.37	4.01	1.10	2.32	7.43
Cultivate	8R-30	MFWD 190	17,400	150	10	0.103	1.17	2.41	0.47	0.41	4.47	1.30	2.67	8.44
Cultivate	8R-38	MFWD 190	19,600	150	10	0.073	0.83	1.72	0.38	0.29	3.23	1.05	1.90	6.19
Cultivate	8R-38 2x1	MFWD 190	26,600	150	10	0.054	0.61	1.26	0.38	0.21	2.48	1.05	1.40	4.94
Cultivate	10R-30	MFWD 225	24,900	150	10	0.082	0.93	2.28	0.54	0.41	4.18	1.49	2.70	8.38
Cultivate	12R-30	MFWD 225	33,200	150	10	0.068	0.78	1.90	0.60	0.34	3.63	1.66	2.25	7.55
Cultivate	12R-38	MFWD 225	32,000	150	10	0.054	0.61	1.50	0.46	0.27	2.85	1.26	1.77	5.90
Cultivate	16R-30	MFWD 225	39,300	150	10	0.051	0.58	1.42	0.54	0.26	2.81	1.47	1.69	5.98
Cultivate & Post	4R-30	2WD 105	14,400	150	10	0.220	3.49	2.84	0.84	0.33	7.51	2.30	2.07	11.90
Cultivate & Post	4R-38	2WD 105	14,400	150	10	0.173	2.75	2.23	0.66	0.26	5.91	1.81	1.63	9.37
Cultivate & Post	6R-30	MFWD 150	18,200	150	10	0.146	2.32	2.70	0.71	0.50	6.25	1.94	3.13	11.33
Cultivate & Post	6R-38	MFWD 150	18,900	150	10	0.115	1.83	2.13	0.58	0.39	4.95	1.59	2.47	9.02
Cultivate & Post	8R-30	MFWD 190	22,400	150	10	0.110	1.74	2.57	0.65	0.43	5.41	1.79	2.84	10.05
Cultivate & Post	8R-38	MFWD 190	24,600	150	10	0.086	1.38	2.03	0.57	0.34	4.33	1.55	2.25	8.14
Cultivate & Post	8R-38 2x1	MFWD 190	33,100	150	10	0.057	0.91	1.35	0.51	0.23	3.01	1.39	1.49	5.91
Cultivate & Post	10R-30	MFWD 225	29,900	150	10	0.088	1.39	2.43	0.70	0.44	4.97	1.91	2.88	9.78
Cultivate & Post	12R-30	MFWD 225	38,100	150	10	0.073	1.16	2.02	0.74	0.36	4.30	2.03	2.40	8.74
Cultivate & Post	12R-38	MFWD 225	38,500	150	10	0.057	0.91	1.60	0.59	0.29	3.40	1.62	1.89	6.93
Cultivate & Post	16R-30	MFWD 225	44,300	150	10	0.055	0.87	1.52	0.64	0.27	3.32	1.77	1.80	6.90
Disk & Incorporate	14'	2WD 130	25,600	200	10	0.149	2.37	2.39	1.14	0.39	6.31	2.09	2.48	10.90
Disk & Incorporate	20'	MFWD 190	35,900	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	38,000	200	10	0.087	1.38	2.04	0.99	0.34	4.76	1.81	2.26	8.84

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (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-----							
Disk & Incorporate	28'	MFWD 225	44,200	200	10	0.074	1.18	2.07	0.99	0.37	4.62	1.80	2.45	8.89
Disk & Incorporate	32'	MFWD 225	49,800	200	10	0.065	1.03	1.81	0.97	0.33	4.16	1.78	2.14	8.09
Disk Bed (Hipper)	4R-38	MFWD 150	8,420	160	10	0.147	1.67	2.72	0.31	0.50	5.21	0.84	3.15	9.22
Disk Bed (Hipper)	6R-30	MFWD 170	11,200	160	10	0.125	1.41	2.61	0.35	0.50	4.88	0.95	3.25	9.10
Disk Bed (Hipper)	6R-38	MFWD 170	11,200	160	10	0.098	1.12	2.06	0.27	0.39	3.85	0.75	2.57	7.18
Disk Bed (Hipper)	8R-30	MFWD 190	14,200	160	10	0.093	1.06	2.19	0.33	0.37	3.96	0.90	2.42	7.29
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	23,200	160	10	0.049	0.56	1.15	0.28	0.19	2.19	0.78	1.27	4.25
Disk Bed (Hipper)	10R-30	MFWD 225	19,000	160	10	0.075	0.85	2.07	0.35	0.37	3.66	0.97	2.45	7.09
Disk Bed (Hipper)	10R-38	MFWD 225	19,600	160	10	0.059	0.67	1.63	0.28	0.29	2.89	0.79	1.93	5.62
Disk Bed (Hipper)	12R-30	MFWD 225	22,300	160	10	0.062	0.70	1.72	0.34	0.31	3.10	0.95	2.04	6.10
Disk Bed (Hipper)	12R-38	MFWD 225	23,200	160	10	0.049	0.56	1.36	0.28	0.24	2.46	0.78	1.61	4.86
Disk Bed (Hipper)Fld	8R-38	MFWD 190	15,000	160	10	0.074	0.84	1.73	0.27	0.29	3.14	0.75	1.91	5.82
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	15,300	160	10	0.074	0.84	1.73	0.28	0.29	3.15	0.77	1.91	5.84
Disk Bed w/roller	8R-30	MFWD 190	18,000	160	10	0.093	1.06	2.19	0.42	0.37	4.05	1.15	2.42	7.63
Disk Bed w/roller	12R-30	MFWD 225	30,700	160	10	0.062	0.70	1.72	0.47	0.31	3.23	1.31	2.04	6.59
Disk Bed w/roller	8R-38	MFWD 190	18,000	160	10	0.074	0.84	1.73	0.33	0.29	3.20	0.91	1.91	6.03
Disk Harrow	14'	2WD 130	20,600	180	10	0.140	1.59	2.24	0.80	0.37	5.01	1.75	2.33	9.10
Disk Harrow	20'	MFWD 190	30,943	180	10	0.098	1.11	2.29	0.84	0.39	4.64	1.84	2.54	9.03
Disk Harrow	24'	MFWD 190	33,100	180	10	0.081	0.92	1.91	0.75	0.32	3.92	1.64	2.11	7.68
Disk Harrow	28'	MFWD 225	39,200	180	10	0.070	0.79	1.94	0.76	0.35	3.85	1.67	2.29	7.82
Disk Harrow	32'	MFWD 225	44,800	180	10	0.061	0.69	1.69	0.76	0.30	3.46	1.67	2.01	7.15
Disk Harrow	42'	MFWD 225	87,000	180	10	0.046	0.53	1.29	1.13	0.23	3.19	2.47	1.53	7.19
Disk Harrow 40-100hp	14'	2WD 75	14,200	180	10	0.140	1.59	1.29	0.55	0.14	3.58	1.21	0.87	5.66
Disk Heavy	14'	MFWD 150	20,600	180	10	0.145	1.65	2.69	0.83	0.50	5.68	1.82	3.12	10.63
Disk Heavy	20'	MFWD 170	30,943	180	10	0.097	1.10	2.03	0.83	0.39	4.36	1.82	2.53	8.73
Disk Heavy	28'	MFWD 190	39,200	180	10	0.075	0.85	1.76	0.82	0.30	3.75	1.80	1.95	7.51
Disk Ripper	15'	MFWD 225	35,200	180	10	0.136	1.54	3.77	1.33	0.68	7.33	2.91	4.46	14.71
Ditcher		2WD 130	4,390	200	10	0.020	0.22	0.31	0.03	0.05	0.63	0.04	0.33	1.01
Ditcher (1m/160a)		2WD 130	4,390	200	10	0.009	0.10	0.14	0.01	0.02	0.29	0.02	0.15	0.47
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.45	2.85	1.39	0.53	7.23	1.62	3.30	12.16
Fert Appl (Liquid)	6R-30	MFWD 170	16,600	150	8	0.130	2.07	2.73	1.44	0.52	6.79	1.69	3.41	11.89
Fert Appl (Liquid)	6R-38	MFWD 170	14,300	150	8	0.103	1.64	2.16	0.98	0.41	5.20	1.15	2.69	9.05
Fert Appl (Liquid)	8R-30	MFWD 190	14,400	150	8	0.098	1.55	2.29	0.94	0.39	5.18	1.10	2.54	8.83
Fert Appl (Liquid)	8R-38	MFWD 190	16,000	150	8	0.077	1.23	1.81	0.82	0.30	4.18	0.96	2.01	7.16
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	15,500	150	8	0.051	0.82	1.20	0.53	0.20	2.76	0.62	1.33	4.73
Fert Appl (Liquid)	10R-30	MFWD 225	15,000	150	8	0.078	1.24	2.17	0.78	0.39	4.60	0.91	2.57	8.09
Fert Appl (Liquid)	10R-38	MFWD 225	18,100	150	8	0.061	0.98	1.71	0.74	0.31	3.75	0.87	2.03	6.66
Fert Appl (Liquid)	12R-30	MFWD 225	18,100	150	8	0.078	1.24	2.17	0.94	0.39	4.76	1.10	2.57	8.44
Fert Appl (Liquid)	12R-38	MFWD 225	15,500	150	8	0.051	0.82	1.43	0.53	0.26	3.04	0.62	1.69	5.36
Field Cult & Inc	42'	MFWD 225	54,200	100	10	0.037	0.59	1.04	0.51	0.19	2.34	2.23	1.23	5.82
Field Cult & Inc	50'	MFWD 225	64,000	100	10	0.031	0.50	0.87	0.50	0.16	2.04	2.22	1.04	5.31
Field Cult & Inc Fld	24'	MFWD 170	28,600	100	10	0.066	1.04	1.38	0.47	0.26	3.17	2.06	1.72	6.96
Field Cult & Inc Fld	32'	MFWD 190	38,500	100	10	0.049	0.78	1.15	0.47	0.19	2.62	2.08	1.28	5.99
Field Cult & Inc Rdg	12'	2WD 150	15,600	100	10	0.132	2.09	2.43	0.51	0.42	5.48	2.25	2.65	10.39
Field Cultivate Fld	24'	MFWD 170	23,600	100	10	0.062	0.70	1.30	0.36	0.24	2.62	1.60	1.62	5.85
Field Cultivate Fld	32'	MFWD 190	33,500	100	10	0.046	0.52	1.09	0.39	0.18	2.19	1.70	1.20	5.11
Field Cultivate Fld	42'	MFWD 225	47,600	100	10	0.035	0.40	0.98	0.42	0.17	1.98	1.85	1.16	5.00
Field Cultivate Fld	50'	MFWD 225	56,500	100	10	0.029	0.33	0.82	0.42	0.15	1.73	1.84	0.97	4.56
Field Cultivate Rdg	12'	2WD 150	10,600	100	10	0.124	1.41	2.29	0.32	0.40	4.43	1.44	2.50	8.38
Grain Cart Corn	500 bu	MFWD 190	21,300	200	12	0.031	0.36	0.74	0.18	0.12	1.42	0.33	0.82	2.57
Grain Cart Corn	700 bu	MFWD 190	27,600	200	12	0.025	0.28	0.58	0.18	0.09	1.15	0.33	0.64	2.13
Grain Cart Corn	1000 bu	MFWD 225	46,800	200	12	0.025	0.28	0.69	0.31	0.12	1.41	0.57	0.81	2.80
Grain Cart Rice	500 bu	MFWD 190	21,300	200	12	0.062	0.70	1.46	0.36	0.24	2.77	0.65	1.61	5.04
Grain Cart Rice	700 bu	MFWD 190	27,600	200	12	0.055	0.62	1.28	0.41	0.21	2.54	0.74	1.42	4.70
Grain Cart Rice	1000 bu	MFWD 190	46,800	200	12	0.045	0.52	1.07	0.58	0.18	2.35	1.04	1.18	4.58
Grain Cart Soybean	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Soybean	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Soybean	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Cart Wht/Sor	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Wht/Sor	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Wht/Sor	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Drill	8'	2WD 130	15,300	150	8	0.235	4.81	3.76	1.35	0.62	10.56	2.68	3.91	17.16
Grain Drill	10'	2WD 130	16,500	150	8	0.188	3.84	3.01	1.16	0.50	8.53	2.31	3.13	13.98
Grain Drill	12'	2WD 130	17,500	150	8	0.157	3.20	2.51	1.03	0.41	7.17	2.04	2.61	11.82
Grain Drill	15'	MFWD 150	21,700	150	8	0.125	2.56	2.31	1.02	0.43	6.34	2.02	2.68	11.05
Grain Drill	20'	MFWD 170	31,300	150	8	0.094	1.92	1.97	1.10	0.37	5.38	2.19	2.45	10.03
Grain Drill	24'	MFWD 190	51,300	150	8	0.078	1.60	1.83	1.51	0.31	5.26	2.99	2.03	10.29
Grain Drill	30'	MFWD 225	51,900	150	8	0.062	1.28	1.73	1.22	0.31	4.56	2.42	2.06	9.05
Grain Drill	35'	MFWD 225	67,500	150	8	0.053	1.09	1.49	1.36	0.27	4.22	2.70	1.76	8.69
Grain Drill & Pre	8'	2WD 130	20,300	150	8	0.253	5.18	4.05	1.93	0.67	11.85	3.83	4.21	19.90
Grain Drill & Pre	10'	2WD 130	21,500	150	8	0.203	4.14	3.24	1.63	0.54	9.57	3.24	3.37	16.19
Grain Drill & Pre	12'	2WD 130	22,500	150	8	0.169	3.45	2.70	1.42	0.45	8.03	2.83	2.81	13.68
Grain Drill & Pre	15'	MFWD 150	26,700	150	8	0.135	2.76	2.49	1.35	0.46	7.08	2.68	2.89	12.66
Grain Drill & Pre	20'	MFWD 170	36,300	150	8	0.101	2.07	2.12	1.38	0.40	5.98	2.74	2.64	11.37
Grain Drill & Pre	24'	MFWD 190	56,200	150	8	0.084	1.72	1.97	1.78	0.33	5.82	3.53	2.19	11.55
Grain Drill & Pre	30'	MFWD 225	56,900	150	8	0.067	1.38	1.87	1.44	0.34	5.04	2.86	2.21	10.12
Grain Drill & Pre	35'	MFWD 225	72,500	150	8	0.058	1.18	1.60	1.57	0.29	4.66	3.12	1.90	9.69
Grain Drill & Pre T	8R-38	MFWD 225	45,800	150	8	0.062	1.28	1.73	1.07	0.31	4.41	2.14	2.06	8.62
Harrow - Rigid	21'	2WD 150	3,880	200	10	0.073	0.83	1.36	0.10	0.23	2.54	0.15	1.48	4.18
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.10	2.26	0.16	0.38	3.92	0.26	2.51	6.70

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Total	--Fixed--	Total		
			dollars	hours	years	hr/ac			Imp. P.U.	Direct	Imp. P.U.	Cost		
-----\$/acre-----														
Harrow - Folding	24'	MFWD 190	9,020	200	10	0.064	0.73	1.51	0.20	0.25	2.70	0.31	1.67	4.70
Harrow - Folding	30'	MFWD 190	9,750	200	10	0.051	0.58	1.20	0.17	0.20	2.18	0.27	1.34	3.79
Harrow - Folding	40'	MFWD 190	12,000	200	10	0.038	0.44	0.90	0.16	0.15	1.66	0.25	1.00	2.92
Harrow - Folding	48'	MFWD 225	17,500	200	10	0.032	0.36	0.89	0.19	0.16	1.62	0.30	1.06	2.99
Harrow - Rigid	13'	2WD 130	2,760	200	10	0.119	1.35	1.91	0.11	0.31	3.70	0.18	1.98	5.86
Header - Corn	6R-30	265 hp	37,000	300	8	0.170	1.93	5.55	1.57	4.09	13.15	2.45	16.65	32.25
Header - Corn	6R-38	265 hp	38,500	300	8	0.134	1.52	4.38	1.29	3.23	10.43	2.01	13.14	25.59
Header - Corn	8R-30	265 hp	49,100	300	8	0.127	1.44	4.16	1.56	3.07	10.25	2.43	12.48	25.18
Header - Corn	8R-38	325 hp	49,200	300	8	0.100	1.14	4.03	1.24	2.63	9.06	1.93	10.72	21.72
Header - Corn	12R-20	325 hp	66,700	300	8	0.127	1.44	5.10	2.12	3.33	12.02	3.31	13.57	28.90
Header - Corn	12R-30	325 hp	75,300	300	8	0.085	0.96	3.40	1.60	2.22	8.19	2.49	9.04	19.74
Header - Draper (CL)	25' Rigid	265 hp	35,000	300	8	0.203	2.30	6.62	1.62	4.88	15.44	2.64	19.85	37.94
Header - Draper (CL)	30' Rigid	325 hp	35,700	300	8	0.169	1.92	6.76	1.38	4.42	14.49	2.24	17.98	34.72
Header - Draper (CL)	36' Rigid	355 hp	40,400	300	8	0.141	1.60	6.15	1.30	3.95	13.01	2.11	16.06	31.19
Header - Draper (SL)	25' Rigid	325 hp	35,000	300	8	0.176	1.99	7.03	1.41	4.60	15.04	2.29	18.70	36.04
Header - Draper (SL)	30' Rigid	325 hp	35,700	300	8	0.146	1.66	5.86	1.19	3.83	12.56	1.94	15.58	30.09
Header - Draper (SL)	36' Rigid	355 hp	40,400	300	8	0.122	1.38	5.33	1.13	3.42	11.28	1.83	13.91	27.03
Header - Rice (CL)	25' Rigid	325 hp	32,051	300	8	0.253	2.88	10.15	2.03	6.63	21.70	3.16	26.97	51.84
Header - Rice (CL)	30' Rigid	325 hp	41,263	300	8	0.211	2.40	8.45	2.18	5.53	18.57	3.39	22.47	44.44
Header - Rice (SL)	25' Rigid	325 hp	32,051	300	8	0.220	2.49	8.79	1.76	5.75	18.80	2.74	23.37	44.92
Header - Rice (SL)	30' Rigid	325 hp	41,263	300	8	0.183	2.08	7.33	1.89	4.79	16.09	2.94	19.48	38.51
Header -RiceStrp(CL)	20'	265 hp	39,100	300	8	0.253	2.88	8.27	2.48	6.10	19.74	3.86	24.82	48.43
Header -RiceStrp(CL)	24'	325 hp	43,000	300	8	0.211	2.40	8.45	2.27	5.53	18.66	3.53	22.47	44.68
Header -RiceStrp(CL)	32'	325 hp	47,400	300	8	0.158	1.80	6.34	1.88	4.14	14.17	2.92	16.85	33.95
Header -RiceStrp(SL)	20'	265 hp	39,100	300	8	0.220	2.49	7.17	2.15	5.29	17.11	3.34	21.51	41.97
Header -RiceStrp(SL)	24'	325 hp	43,000	300	8	0.183	2.08	7.33	1.97	4.79	16.17	3.06	19.48	38.72
Header -RiceStrp(SL)	32'	325 hp	47,400	300	8	0.137	1.56	5.49	1.62	3.59	12.28	2.53	14.61	29.42
Header -Soybean	22' Flex	265 hp	25,200	300	8	0.116	1.31	3.78	0.73	2.79	8.62	1.13	11.35	21.11
Header -Soybean	25' Flex	325 hp	27,300	300	8	0.102	1.15	4.08	0.69	2.67	8.61	1.08	10.85	20.55
Header -Soybean	30' Flex	325 hp	31,600	300	8	0.085	0.96	3.40	0.67	2.22	7.26	1.04	9.04	17.36
Header -Soybean	35' Flex	355 hp	36,700	300	8	0.072	0.82	3.18	0.66	2.04	6.72	1.04	8.31	16.08
Header Wheat/Sorghum	22' Rigid	265 hp	22,700	300	8	0.116	1.31	3.78	0.65	2.79	8.55	1.02	11.35	20.93
Header Wheat/Sorghum	25' Rigid	325 hp	23,900	300	8	0.102	1.15	4.08	0.61	2.67	8.52	0.95	10.85	20.33
Header Wheat/Sorghum	30' Rigid	325 hp	27,200	300	8	0.085	0.96	3.40	0.57	2.22	7.17	0.90	9.04	17.12
Header-Cotton-Bcast	13'	173 hp	18,000	200	8	0.251	5.13	4.86	0.84	5.70	16.55	2.64	23.18	42.39
Header-Cotton-Bcast	16'	173 hp	21,100	200	8	0.204	4.17	3.95	0.80	4.63	13.57	2.51	18.84	34.93
Header-Cotton-Bcast	19'	173 hp	22,800	200	8	0.172	3.51	3.32	0.73	3.90	11.48	2.29	15.86	29.64
Header-Cotton-Brush	4R-30 2x1	173 hp	28,900	200	8	0.218	4.45	4.21	1.18	4.94	14.79	3.68	20.09	38.57
Header-Cotton-Brush	4R-36	173 hp	28,000	200	8	0.272	5.56	5.26	1.43	6.18	18.45	4.45	25.12	48.02
Header-Cotton-Brush	4R-38	173 hp	27,900	200	8	0.257	5.26	4.97	1.34	5.84	17.42	4.19	23.73	45.36
Header-Cotton-Brush	4R-38 2x1	173 hp	29,300	200	8	0.172	3.51	3.32	0.94	3.90	11.69	2.94	15.86	30.50
Header-Cotton-Brush	5R-30	173 hp	35,200	200	8	0.261	5.34	5.05	1.72	5.93	18.06	5.38	24.11	47.56
Header-Cotton-Brush	5R-38	173 hp	36,200	200	8	0.207	4.22	4.00	1.40	4.69	14.33	4.37	19.07	37.78
Header-Cotton-Brush	6R-30	173 hp	43,300	200	8	0.218	4.45	4.21	1.77	4.94	15.38	5.51	20.09	40.99
Header-Cotton-Brush	6R-38	173 hp	44,500	200	8	0.172	3.51	3.32	1.43	3.90	12.18	4.47	15.86	32.52
Header-Cotton-Brush	8R-30	173 hp	59,600	200	8	0.163	3.34	3.16	1.82	3.70	12.03	5.69	15.07	32.80
Header-Cotton-Brush	8R-36/38	173 hp	61,200	200	8	0.129	2.64	2.49	1.48	2.93	9.55	4.62	11.91	26.09
Land Plane	50'x16'	MFWD 190	10,300	200	10	0.151	1.72	3.54	0.31	0.60	6.18	0.85	3.92	10.96
Levee Pull & Seed	8 Blade	MFWD 170	7,540	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Pull (1m/80a)	8 blade	MFWD 170	6,760	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Splitter (1/80)	8 blade	MFWD 150	6,760	100	10	0.004	0.04	0.07	0.00	0.01	0.14	0.03	0.08	0.26
Middle Buster	4R-38	MFWD 150	9,550	160	8	0.228	2.59	4.21	0.51	0.78	8.10	1.66	4.88	14.64
Middle Buster	6R-38	MFWD 150	11,700	160	8	0.120	1.36	2.21	0.32	0.41	4.32	1.07	2.56	7.96
Middle Buster	8R-30	MFWD 190	17,110	160	8	0.114	1.29	2.66	0.45	0.45	4.87	1.48	2.95	9.32
Middle Buster	8R-38	MFWD 190	15,500	160	8	0.090	1.02	2.10	0.32	0.35	3.82	1.06	2.33	7.22
Middle Buster	8R-38 2x1	MFWD 190	25,900	160	8	0.060	0.68	1.40	0.36	0.23	2.69	1.18	1.55	5.43
Middle Buster	10R-30	MFWD 225	27,000	160	8	0.091	1.03	2.52	0.57	0.46	4.60	1.87	2.99	9.47
Middle Buster	10R-38	MFWD 225	29,500	160	8	0.072	0.81	1.99	0.49	0.36	3.67	1.61	2.36	7.65
Middle Buster	12R-38	MFWD 225	25,900	160	8	0.060	0.68	1.66	0.36	0.30	3.01	1.18	1.97	6.16
Module Builder	4R-30(250)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-30(325)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-38(255)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R-38(325)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder	5R-30(255)	MFWD 190	30,500	200	10	0.261	5.34	6.12	1.99	1.04	14.50	4.21	6.78	25.50
Module Builder	5R-38(250)	MFWD 190	30,500	200	10	0.207	4.22	4.84	1.57	0.82	11.47	3.33	5.36	20.17
Module Builder	6R-30(325)	MFWD 190	30,500	200	10	0.218	4.45	5.10	1.66	0.86	12.08	3.51	5.65	21.25
Module Builder	6R-38(330)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	13' Bcast	MFWD 150	30,500	200	10	0.251	5.13	4.64	1.92	0.86	12.57	4.05	5.38	22.00
Module Builder-Strip	16' Bcast	MFWD 150	30,500	200	10	0.204	4.17	3.77	1.56	0.70	10.21	3.29	4.37	17.88
Module Builder-Strip	19' Bcast	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	4R-30 2x1	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07
Module Builder-Strip	4R-36	MFWD 150	30,500	200	10	0.272	5.56	5.03	2.08	0.93	13.61	4.38	5.83	23.84
Module Builder-Strip	4R-38	MFWD 150	30,500	200	10	0.257	5.26	4.75	1.96	0.88	12.86	4.14	5.51	22.52
Module Builder-Strip	4R-38 2x1	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	5R-30	MFWD 150	30,500	200	10	0.261	5.34	4.83	1.99	0.89	13.07	4.21	5.59	22.88
Module Builder-Strip	5R-38	MFWD 150	30,500	200	10	0.207	4.22	3.82	1.57	0.71	10.34	3.33	4.42	18.10
Module Builder-Strip	6R-30	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07

(continued)



Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (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-Strip	6R-38	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	8R-36/38	MFWD 190	30,500	200	10	0.129	2.64	3.02	0.98	0.51	7.16	2.08	3.35	12.60
NT Grain Drill	6'	MFWD 170	18,800	150	8	0.327	6.68	6.84	2.30	1.31	17.15	4.57	8.53	30.26
NT Grain Drill	10'	2WD 130	28,500	150	8	0.235	4.81	3.76	2.51	0.62	11.72	4.99	3.91	20.64
NT Grain Drill	12'	2WD 130	35,100	150	8	0.163	3.34	2.61	2.15	0.43	8.55	4.27	2.71	15.54
NT Grain Drill	15'	MFWD 150	38,600	150	8	0.130	2.67	2.41	1.89	0.44	7.43	3.75	2.79	13.99
NT Grain Drill	20'	MFWD 170	55,200	150	8	0.098	2.00	2.05	2.03	0.39	6.48	4.03	2.56	13.07
NT Grain Drill	24'	MFWD 190	74,200	150	8	0.081	1.67	1.91	2.27	0.32	6.18	4.51	2.11	12.82
NT Grain Drill	30'	MFWD 225	94,400	150	8	0.065	1.33	1.81	2.31	0.33	5.79	4.59	2.14	12.54
NT Grain Drill & Pre	6'	MFWD 170	23,800	150	8	0.352	7.19	7.37	3.14	1.41	19.13	6.24	9.19	34.56
NT Grain Drill & Pre	10'	2WD 130	33,400	150	8	0.211	4.31	3.38	2.64	0.56	10.91	5.25	3.51	19.68
NT Grain Drill & Pre	12'	2WD 130	40,100	150	8	0.176	3.59	2.81	2.65	0.47	9.53	5.25	2.92	17.72
NT Grain Drill & Pre	15'	MFWD 150	43,600	150	8	0.141	2.87	2.60	2.30	0.48	8.27	4.57	3.01	15.85
NT Grain Drill & Pre	20'	MFWD 170	60,100	150	8	0.105	2.15	2.21	2.38	0.42	7.17	4.72	2.75	14.66
NT Grain Drill & Pre	24'	MFWD 190	79,100	150	8	0.088	1.79	2.06	2.61	0.35	6.82	5.18	2.28	14.29
NT Grain Drill & Pre	30'	MFWD 225	99,400	150	8	0.070	1.43	1.95	2.62	0.35	6.37	5.21	2.31	13.89
NT Plant&Pre-Folding	8R-38	MFWD 170	44,300	150	8	0.083	1.70	1.74	1.38	0.33	5.17	2.75	2.18	10.11
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	72,400	150	8	0.055	1.13	1.16	1.51	0.22	4.03	2.99	1.45	8.48
NT Plant&Pre-Folding	12R-20	MFWD 190	66,700	150	8	0.105	2.15	2.47	2.64	0.42	7.69	5.24	2.73	15.68
NT Plant&Pre-Folding	12R-30	MFWD 190	69,100	150	8	0.070	1.43	1.64	1.82	0.28	5.19	3.62	1.82	10.64
NT Plant&Pre-Folding	12R-38	MFWD 190	72,400	150	8	0.055	1.13	1.30	1.51	0.22	4.17	2.99	1.44	8.61
NT Plant&Pre-Folding	16R-30	MFWD 190	96,400	150	8	0.052	1.07	1.23	1.91	0.21	4.43	3.79	1.36	9.59
NT Plant&Pre-Folding	23R-15	MFWD 190	101,000	150	8	0.073	1.49	1.71	2.78	0.29	6.29	5.51	1.90	13.71
NT Plant&Pre-Folding	24R-15	MFWD 225	117,000	150	8	0.070	1.43	1.95	3.09	0.35	6.84	6.13	2.31	15.28
NT Plant&Pre-Folding	24R-20	MFWD 190	127,000	150	8	0.052	1.07	1.23	2.51	0.21	5.04	4.99	1.36	11.40
NT Plant&Pre-Folding	24R-30	MFWD 190	151,000	150	8	0.035	0.71	0.82	1.99	0.14	3.68	3.96	0.91	8.55
NT Plant&Pre-Folding	31R-15	MFWD 225	137,000	150	8	0.054	1.11	1.51	2.80	0.27	5.71	5.57	1.79	13.07
NT Plant&Pre-Folding	32R-15	MFWD 225	149,000	150	8	0.052	1.07	1.46	2.95	0.26	5.76	5.86	1.73	13.35
NT Plant&Pre-Folding	36R-20	MFWD 225	167,000	150	8	0.035	0.71	0.97	2.20	0.17	4.08	4.38	1.15	9.61
NT Plant&Pre-Rigid	4R-30	2WD 130	25,100	150	8	0.211	4.31	3.38	1.99	0.56	10.25	3.94	3.51	17.72
NT Plant&Pre-Rigid	4R-38	2WD 130	26,600	150	8	0.166	3.39	2.66	1.66	0.44	8.16	3.29	2.76	14.23
NT Plant&Pre-Rigid	6R-30	MFWD 150	33,600	150	8	0.141	2.87	2.60	1.77	0.48	7.74	3.52	3.01	14.28
NT Plant&Pre-Rigid	6R-38	MFWD 150	31,700	150	8	0.111	2.27	2.05	1.32	0.38	6.03	2.62	2.38	11.03
NT Plant&Pre-Rigid	8R-30	MFWD 170	40,200	150	8	0.105	2.15	2.21	1.59	0.42	6.38	3.16	2.75	12.31
NT Plant&Pre-Rigid	8R-38	MFWD 170	37,100	150	8	0.083	1.70	1.74	1.16	0.33	4.95	2.30	2.18	9.44
NT Plant&Pre-Rigid	10R-30	MFWD 190	39,600	150	8	0.084	1.72	1.97	1.25	0.33	5.29	2.49	2.19	9.98
NT Plant&Pre-Rigid	11R-15	MFWD 170	45,100	150	8	0.143	2.93	3.00	2.43	0.57	8.95	4.82	3.75	17.53
NT Plant&Pre-Rigid	11R-20	MFWD 170	42,500	150	8	0.115	2.35	2.41	1.84	0.46	7.08	3.65	3.01	13.75
NT Plant&Pre-Rigid	12R-20	MFWD 190	49,200	150	8	0.105	2.15	2.47	1.95	0.42	7.00	3.87	2.73	13.61
NT Plant&Pre-Rigid	12R-30	MFWD 190	55,300	150	8	0.070	1.43	1.64	1.46	0.28	4.83	2.90	1.82	9.55
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	47,400	150	8	0.097	1.98	2.69	1.73	0.49	6.91	3.43	3.19	13.54
NT Plant&Pre-Rigid	15R-15	MFWD 190	57,700	150	8	0.113	2.30	2.64	2.44	0.45	7.85	4.85	2.92	15.63
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	108,000	150	8	0.055	1.13	1.54	2.25	0.28	5.21	4.47	1.82	11.50
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	86,600	150	8	0.083	1.70	2.31	2.71	0.42	7.15	5.38	2.74	15.28
NT Plant-Folding	8R-38	MFWD 170	39,300	150	8	0.077	1.58	1.62	1.14	0.31	4.66	2.26	2.02	8.95
NT Plant-Folding	8R-38 2x1	MFWD 170	65,700	150	8	0.051	1.05	1.08	1.27	0.20	3.61	2.52	1.34	7.49
NT Plant-Folding	12R-20	MFWD 190	61,800	150	8	0.098	2.00	2.29	2.27	0.39	6.96	4.51	2.54	14.02
NT Plant-Folding	12R-30	MFWD 190	64,100	150	8	0.065	1.33	1.53	1.57	0.26	4.70	3.12	1.69	9.51
NT Plant-Folding	12R-38	MFWD 190	65,900	150	8	0.051	1.05	1.20	1.27	0.20	3.74	2.53	1.33	7.61
NT Plant-Folding	16R-30	MFWD 190	89,800	150	8	0.049	1.00	1.14	1.65	0.19	3.99	3.28	1.27	8.55
NT Plant-Folding	23R-15	MFWD 190	106,000	150	8	0.068	1.39	1.59	2.71	0.27	5.96	5.37	1.76	13.11
NT Plant-Folding	24R-15	MFWD 225	112,000	150	8	0.065	1.33	1.81	2.75	0.33	6.22	5.45	2.14	13.83
NT Plant-Folding	24R-20	MFWD 190	120,000	150	8	0.049	1.00	1.14	2.20	0.19	4.55	4.38	1.27	10.21
NT Plant-Folding	24R-30	MFWD 190	141,000	150	8	0.032	0.66	0.76	1.73	0.13	3.29	3.43	0.84	7.57
NT Plant-Folding	31R-15	MFWD 225	128,000	150	8	0.050	1.03	1.40	2.43	0.25	5.13	4.83	1.66	11.63
NT Plant-Folding	32R-15	MFWD 225	139,000	150	8	0.049	1.00	1.35	2.55	0.24	5.16	5.07	1.60	11.85
NT Plant-Folding	36R-20	MFWD 225	157,000	150	8	0.032	0.66	0.90	1.92	0.16	3.66	3.82	1.07	8.56
NT Plant-Rigid	4R-30	2WD 130	20,100	150	8	0.196	4.00	3.14	1.48	0.52	9.15	2.93	3.26	15.35
NT Plant-Rigid	4R-38	2WD 130	21,600	150	8	0.154	3.15	2.47	1.25	0.41	7.29	2.48	2.56	12.35
NT Plant-Rigid	6R-30	MFWD 150	28,700	150	8	0.130	2.67	2.41	1.40	0.44	6.94	2.79	2.79	12.54
NT Plant-Rigid	6R-38	MFWD 150	26,700	150	8	0.103	2.10	1.90	1.03	0.35	5.40	2.05	2.21	9.67
NT Plant-Rigid	8R-30	MFWD 170	35,200	150	8	0.098	2.00	2.05	1.29	0.39	5.74	2.57	2.56	10.88
NT Plant-Rigid	8R-38	MFWD 170	32,100	150	8	0.077	1.58	1.62	0.93	0.31	4.45	1.85	2.02	8.33
NT Plant-Rigid	10R-30	MFWD 190	34,700	150	8	0.078	1.60	1.83	1.02	0.31	4.77	2.02	2.03	8.83
NT Plant-Rigid	11R-15	MFWD 170	40,100	150	8	0.133	2.72	2.79	2.00	0.53	8.06	3.98	3.48	15.53
NT Plant-Rigid	11R-20	MFWD 170	37,600	150	8	0.107	2.19	2.24	1.51	0.43	6.37	3.00	2.79	12.18
NT Plant-Rigid	12R-20	MFWD 190	44,200	150	8	0.098	2.00	2.29	1.62	0.39	6.31	3.22	2.54	12.09
NT Plant-Rigid	12R-30	MFWD 190	50,300	150	8	0.065	1.33	1.53	1.23	0.26	4.36	2.44	1.69	8.50
NT Plant-Rigid	13R-18/20	MFWD 225	41,380	150	8	0.090	1.85	2.51	1.41	0.45	6.24	2.79	2.98	12.02
NT Plant-Rigid	15R-15	MFWD 190	51,100	150	8	0.105	2.14	2.45	2.01	0.41	7.03	3.99	2.72	13.74
NT Plant-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.051	1.05	1.43	1.95	0.26	4.70	3.88	1.69	10.28
NT Plant-TwinRow	8R-30/40	MFWD 225	81,600	150	8	0.077	1.58	2.14	2.37	0.39	6.50	4.71	2.54	13.75
One Trip Plow	4R-38	MFWD 170	20,000	150	10	0.146	1.66	3.06	1.36	0.58	6.69	2.13	3.82	12.65
One Trip Plow	6R-38	MFWD 190	24,000	150	10	0.097	1.10	2.27	1.08	0.38	4.85	1.70	2.51	9.07
One Trip Plow	8R-38	MFWD 225	35,700	150	10	0.073	0.83	2.04	1.23	0.37	4.49	1.92	2.42	8.84
Paratill & Bed Fold.	8R-38	MFWD 225	50,300	150	12	0.080	0.91	2.23	1.46	0.40	5.02	2.64	2.64	10.32
Paratill & Bed Fold.	8R-38 2x1	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Fold.	10R-30	MFWD 225	32,100	150	12	0.081	0.92	2.26	0.94	0.41	4.54	1.70	2.67	8.93

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (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-----							
Paratill & Bed Fold.	12R-38	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Rigid	4R-30	MFWD 225	12,200	150	12	0.204	2.31	5.65	0.90	1.03	9.90	1.62	6.69	18.22
Paratill & Bed Rigid	4R-38	MFWD 225	12,200	150	12	0.160	1.82	4.45	0.70	0.81	7.79	1.27	5.27	14.35
Paratill & Bed Rigid	6R-30	MFWD 225	16,000	150	12	0.136	1.54	3.77	0.78	0.68	6.79	1.41	4.46	12.67
Paratill & Bed Rigid	6R-38	MFWD 225	17,000	150	12	0.107	1.22	2.97	0.66	0.54	5.39	1.19	3.52	10.11
Paratill & Bed Rigid	8R-30	MFWD 225	21,100	150	12	0.102	1.15	2.82	0.77	0.51	5.28	1.40	3.34	10.03
Paratill & Bed Rigid	8R-38	MFWD 225	22,200	150	12	0.080	0.91	2.23	0.64	0.40	4.20	1.16	2.64	8.02
Paratill & Bed Rigid	10R-30	MFWD 225	24,400	150	12	0.081	0.92	2.26	0.72	0.41	4.32	1.29	2.67	8.30
Peanut Cond.& Lifter	6-Row	MFWD 190	11,000	300	20	0.100	1.13	2.33	0.18	0.39	4.05	0.28	2.58	6.92
Peanut Conditioner	6-Row	MFWD 190	11,500	300	20	0.100	1.13	2.33	0.23	0.39	4.10	0.26	2.58	6.95
Peanut Dig/Invertor	4R-30	MFWD 190	20,900	300	15	0.235	2.67	5.51	1.22	0.93	10.35	1.52	6.10	17.99
Peanut Dig/Invertor	4R-38	MFWD 190	20,900	300	15	0.186	2.11	4.35	0.96	0.74	8.17	1.20	4.82	14.20
Peanut Dig/Invertor	6R-38	MFWD 190	30,300	300	15	0.124	1.40	2.89	0.65	0.49	5.46	1.16	3.21	9.83
Peanut Dump Cart	6-Row	MFWD 190	34,900	300	20	0.310	3.51	7.24	0.63	0.23	12.63	2.70	8.02	23.36
Peanut Harvester	4R-30	MFWD 225	95,400	300	20	0.849	9.64	23.52	4.59	4.28	42.05	18.74	27.86	88.66
Peanut Harvester	4R-38	MFWD 225	95,400	300	20	0.934	10.60	25.86	5.05	4.71	46.24	21.45	30.63	98.33
Peanut Harvester	6R-38	MFWD 225	118,000	300	20	0.625	7.09	17.29	3.56	3.15	31.11	17.75	20.48	69.34
Peanut Lifter	6-Row	MFWD 225	4,000	300	20	0.100	1.13	2.76	0.08	0.50	4.48	0.09	3.27	7.86
Peanut Plt&Pre Fold.	12R-38	MFWD 190	66,100	150	8	0.080	1.64	1.87	1.99	0.32	5.83	3.95	2.08	11.87
Peanut Plt&Pre Rigid	8R-30	MFWD 190	36,000	150	8	0.152	3.11	3.57	2.06	0.60	9.36	4.09	3.95	17.40
Peanut Plt&Pre Rigid	8R-38	MFWD 190	32,900	150	8	0.120	2.46	2.82	1.49	0.48	7.25	2.95	3.12	13.34
Pipe Spool 160ac	1/4m roll	2WD 130	3,470	15	12	0.003	0.09	0.04	0.00	0.00	0.15	0.07	0.05	0.27
Pipe Trailer 1m/160a	30'	2WD 130	1,100	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.06	0.31
Plant & Pre-Folding	8R-38	MFWD 170	40,000	150	8	0.080	1.63	1.67	1.20	0.32	4.84	2.38	2.09	9.32
Plant & Pre-Folding	8R-38 2x1	MFWD 170	66,100	150	8	0.053	1.09	1.11	1.32	0.21	3.74	2.62	1.39	7.76
Plant & Pre-Folding	12R-20	MFWD 190	60,400	150	8	0.101	2.07	2.37	2.29	0.40	7.15	4.56	2.62	14.34
Plant & Pre-Folding	12R-30	MFWD 190	62,800	150	8	0.067	1.38	1.58	1.59	0.26	4.82	3.16	1.75	9.74
Plant & Pre-Folding	12R-38	MFWD 190	66,100	150	8	0.053	1.09	1.24	1.32	0.21	3.87	2.62	1.38	7.88
Plant & Pre-Folding	16R-30	MFWD 190	88,000	150	8	0.050	1.03	1.18	1.67	0.20	4.10	3.32	1.31	8.73
Plant & Pre-Folding	23R-15	MFWD 190	98,500	150	8	0.070	1.43	1.64	2.60	0.28	5.97	5.16	1.82	12.96
Plant & Pre-Folding	24R-15	MFWD 225	104,000	150	8	0.067	1.38	1.87	2.63	0.34	6.23	5.23	2.21	13.69
Plant & Pre-Folding	24R-20	MFWD 190	114,000	150	8	0.050	1.03	1.18	2.17	0.20	4.59	4.30	1.31	10.21
Plant & Pre-Folding	24R-30	MFWD 190	138,000	150	8	0.033	0.69	0.79	1.75	0.13	3.36	3.47	0.87	7.71
Plant & Pre-Folding	31R-15	MFWD 225	121,000	150	8	0.052	1.07	1.45	2.38	0.26	5.16	4.72	1.72	11.61
Plant & Pre-Folding	32R-15	MFWD 225	132,000	150	8	0.050	1.03	1.40	2.51	0.25	5.21	4.98	1.66	11.85
Plant & Pre-Folding	36R-20	MFWD 225	148,000	150	8	0.033	0.69	0.93	1.87	0.17	3.67	3.72	1.10	8.51
Plant & Pre-Rigid	4R-30	2WD 130	23,000	150	8	0.203	4.14	3.24	1.75	0.54	9.68	3.47	3.37	16.53
Plant & Pre-Rigid	4R-38	2WD 130	24,500	150	8	0.159	3.26	2.55	1.46	0.42	7.71	2.91	2.65	13.28
Plant & Pre-Rigid	6R-30	MFWD 150	31,500	150	8	0.135	2.76	2.49	1.59	0.46	7.32	3.17	2.89	13.39
Plant & Pre-Rigid	6R-38	MFWD 150	28,500	150	8	0.106	2.18	1.97	1.14	0.36	5.66	2.26	2.28	10.21
Plant & Pre-Rigid	8R-30	MFWD 170	36,000	150	8	0.101	2.07	2.12	1.37	0.40	5.97	2.71	2.64	11.34
Plant & Pre-Rigid	8R-38	MFWD 170	32,900	150	8	0.080	1.63	1.67	0.99	0.32	4.62	1.96	2.09	8.68
Plant & Pre-Rigid	10R-30	MFWD 190	34,400	150	8	0.081	1.65	1.89	1.04	0.32	4.92	2.07	2.10	9.11
Plant & Pre-Rigid	11R-15	MFWD 170	39,300	150	8	0.148	3.02	3.09	2.18	0.59	8.90	4.33	3.86	17.10
Plant & Pre-Rigid	11R-20	MFWD 170	36,800	150	8	0.110	2.26	2.32	1.53	0.44	6.56	3.03	2.89	12.49
Plant & Pre-Rigid	12R-20	MFWD 190	42,900	150	8	0.101	2.07	2.37	1.63	0.40	6.48	3.24	2.62	12.35
Plant & Pre-Rigid	12R-30	MFWD 190	49,000	150	8	0.067	1.38	1.58	1.24	0.26	4.47	2.46	1.75	8.69
Plant & Pre-Rigid	13R-18/20	MFWD 225	41,375	150	8	0.093	1.90	2.59	1.45	0.47	6.42	2.88	3.06	12.37
Plant & Pre-Rigid	15R-15	MFWD 190	49,800	150	8	0.108	2.21	2.53	2.02	0.43	7.21	4.02	2.81	14.05
Plant & Pre-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.053	1.09	1.47	2.02	0.26	4.86	4.01	1.75	10.63
Plant & Pre-TwinRow	8R-30/40	MFWD 225	82,400	150	8	0.080	1.63	2.22	2.48	0.40	6.74	4.91	2.63	14.29
Plant - Folding	8R-38	MFWD 170	35,100	150	8	0.074	1.52	1.55	0.98	0.29	4.35	1.94	1.94	8.24
Plant - Folding	8R-38 2x1	MFWD 170	59,600	150	8	0.049	1.01	1.03	1.10	0.19	3.35	2.19	1.29	6.85
Plant - Folding	12R-20	MFWD 190	55,400	150	8	0.094	1.92	2.20	1.95	0.37	6.46	3.88	2.44	12.79
Plant - Folding	12R-30	MFWD 190	57,800	150	8	0.062	1.28	1.46	1.36	0.25	4.36	2.70	1.62	8.69
Plant - Folding	12R-38	MFWD 190	59,600	150	8	0.049	1.01	1.15	1.10	0.19	3.47	2.19	1.28	6.96
Plant - Folding	16R-30	MFWD 190	81,400	150	8	0.047	0.96	1.10	1.43	0.18	3.69	2.85	1.22	7.76
Plant - Folding	23R-15	MFWD 190	93,500	150	8	0.065	1.33	1.53	2.29	0.26	5.42	4.55	1.69	11.67
Plant - Folding	24R-15	MFWD 225	99,000	150	8	0.062	1.28	1.73	2.33	0.31	5.67	4.62	2.06	12.36
Plant - Folding	24R-20	MFWD 190	108,000	150	8	0.047	0.96	1.10	1.90	0.18	4.16	3.78	1.22	9.16
Plant - Folding	24R-30	MFWD 190	128,100	150	8	0.031	0.64	0.73	1.50	0.12	3.01	2.99	0.81	6.81
Plant - Folding	31R-15	MFWD 225	111,000	150	8	0.048	0.99	1.34	2.02	0.24	4.61	4.02	1.59	10.23
Plant - Folding	32R-15	MFWD 225	123,000	150	8	0.047	0.96	1.30	2.17	0.23	4.67	4.31	1.54	10.53
Plant - Folding	36R-20	MFWD 225	138,000	150	8	0.031	0.64	0.86	1.62	0.15	3.29	3.22	1.03	7.55
Plant - Rigid	4R-30	2WD 130	18,000	150	8	0.188	3.84	3.01	1.27	0.50	8.64	2.52	3.13	14.29
Plant - Rigid	4R-38	2WD 130	19,500	150	8	0.148	3.03	2.37	1.08	0.39	6.88	2.15	2.46	11.50
Plant - Rigid	6R-30	MFWD 150	26,600	150	8	0.125	2.56	2.31	1.25	0.43	6.57	2.48	2.68	11.74
Plant - Rigid	6R-38	MFWD 150	23,500	150	8	0.099	2.02	1.83	0.87	0.34	5.07	1.73	2.12	8.92
Plant - Rigid	8R-30	MFWD 170	31,000	150	8	0.094	1.92	1.97	1.09	0.37	5.37	2.17	2.45	10.00
Plant - Rigid	8R-38	MFWD 170	27,900	150	8	0.074	1.52	1.55	0.77	0.29	4.15	1.54	1.94	7.64
Plant - Rigid	10R-30	MFWD 190	29,400	150	8	0.075	1.53	1.76	0.83	0.30	4.43	1.64	1.95	8.03
Plant - Rigid	11R-15	MFWD 170	34,300	150	8	0.137	2.80	2.87	1.77	0.55	8.01	3.51	3.58	15.11
Plant - Rigid	11R-20	MFWD 170	31,800	150	8	0.103	2.10	2.15	1.22	0.41	5.90	2.43	2.68	11.02
Plant - Rigid	12R-20	MFWD 190	37,900	150	8	0.094	1.92	2.20	1.34	0.37	5.84	2.65	2.44	10.94
Plant - Rigid	12R-30	MFWD 190	44,000	150	8	0.062	1.28	1.46	1.03	0.25	4.03	2.05	1.62	7.72
Plant - Rigid	13R-18/20	MFWD 225	41,100	150	8	0.086	1.77	2.40	1.33	0.43	5.95	2.65	2.84	11.46
Plant - Rigid	15R-15	2WD 150	43,200	150	8	0.094	1.92	1.73	1.52	0.30	5.49	3.02	1.89	10.42
Plant - TwinRow	12R-30/40	MFWD 225	94,700	150	8	0.049	1.01	1.37	1.76	0.25	4.39	3.49	1.62	9.52
Plant - TwinRow	8R-30/40	MFWD 225	77,400	150	8	0.074	1.52	2.06	2.16	0.37	6.12	4.29	2.44	12.85

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (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-----							
Ridge Till Cult + PD	8R-30	2WD 150	27,000	200	12	0.110	1.74	2.02	1.42	0.35	5.55	1.49	2.21	9.26
Ridge Till Cult + PD	12R-30	2WD 190	37,600	200	12	0.073	1.16	1.71	1.32	0.25	4.45	1.38	1.63	7.47
Ridge Till Cultivate	8R-30	2WD 170	22,000	200	12	0.103	1.17	2.15	1.08	0.35	4.76	1.14	2.29	8.20
Ridge Till Cultivate	12R-30	2WD 190	32,600	200	12	0.068	0.78	1.60	1.07	0.23	3.69	1.12	1.53	6.36
Rip/Bed/Till-Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.82	1.70	0.11	0.29	2.93	0.55	1.89	5.38
Rip/Bed/Till-Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.69	1.70	0.14	0.31	2.85	0.70	2.01	5.58
Rip/Bed/Till-Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.52	1.27	0.10	0.23	2.14	0.52	1.51	4.18
Rip/Bed/Till-Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.09	4.32	0.11	0.73	7.27	0.59	4.78	12.65
Rip/Bed/Till-Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.66	3.42	0.09	0.58	5.77	0.47	3.79	10.04
Rip/Bed/Till-Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.10	2.27	0.09	0.38	3.86	0.48	2.51	6.86
Rip/Bed/Till-Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.57	3.24	0.17	0.55	5.55	0.88	3.59	10.03
Rip/Bed/Till-Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.82	1.70	0.09	0.29	2.92	0.46	1.89	5.27
Rip/Bed/Till-Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.39	2.88	0.12	0.49	4.89	0.61	3.19	8.69
Ripper Conditioner	6-Row	MFWD 225	18,200	150	12	0.107	1.22	2.97	0.70	0.54	5.44	1.27	3.52	10.24
Ripper Conditioner	8-Row	MFWD 225	19,000	150	12	0.080	0.91	2.23	0.55	0.40	4.11	0.99	2.64	7.76
Roller/Cultipacker	12'	2WD 130	5,020	300	12	0.124	1.41	1.98	0.14	0.33	3.88	0.20	2.06	6.15
Roller/Cultipacker	20'	MFWD 150	14,700	300	12	0.074	0.84	1.37	0.25	0.25	2.74	0.36	1.59	4.70
Roller/Cultipacker	30'	MFWD 170	14,900	300	12	0.049	0.56	1.04	0.17	0.19	1.98	0.24	1.29	3.52
Roller/Cultipacker	38'	MFWD 225	16,100	300	12	0.039	0.44	1.08	0.14	0.19	1.88	0.21	1.28	3.38
Roller/Stubble	20'	2WD 50	10,900	300	12	0.074	0.84	0.45	0.19	0.05	1.55	0.27	0.32	2.15
Roller/Stubble	32'	MFWD 225	18,500	300	12	0.046	0.52	1.29	0.20	0.23	2.26	0.28	1.52	4.07
Rotary Cutter	7'	MFWD 130	3,920	185	10	0.168	1.91	2.69	0.53	0.48	5.62	0.39	3.01	9.03
Rotary Cutter	12'	2WD 150	10,100	185	10	0.098	1.11	1.81	0.80	0.31	4.04	0.58	1.97	6.60
Rotary Cutter-Flex	15'	MFWD 150	17,500	185	10	0.078	0.89	1.44	1.11	0.26	3.72	0.81	1.67	6.21
Rotary Cutter-Flex	20'	MFWD 150	25,000	185	10	0.058	0.66	1.08	1.19	0.20	3.15	0.87	1.25	5.28
Row Cond & Inc-Fold.	26'	MFWD 190	22,300	100	10	0.063	1.00	1.48	0.35	0.25	3.09	1.54	1.64	6.28
Row Cond & Inc-Fold.	38'	MFWD 225	27,900	100	10	0.043	0.68	1.20	0.30	0.21	2.41	1.32	1.42	5.16
Row Cond & Inc-Rigid	13'	2WD 130	11,100	100	10	0.126	2.01	2.02	0.35	0.33	4.73	1.54	2.10	8.38
Row Cond & Inc-Rigid	21'	2WD 170	14,600	100	10	0.078	1.24	1.64	0.28	0.26	3.44	1.25	1.74	6.44
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.62	0.11	0.10	1.26	0.48	0.68	2.43
Row Cond Folding	26'	MFWD 225	17,300	100	10	0.059	0.67	1.65	0.25	0.30	2.89	1.13	1.95	5.97
Row Cond Folding	38'	MFWD 225	21,100	100	10	0.040	0.46	1.13	0.21	0.20	2.01	0.94	1.33	4.29
Row Cond Rigid	13'	2WD 130	6,100	100	10	0.119	1.35	1.91	0.18	0.31	3.76	0.79	1.98	6.54
Row Cond Rigid	21'	2WD 170	9,600	100	10	0.073	0.83	1.54	0.17	0.25	2.81	0.77	1.64	5.23
Row Cond Rigid	26'	MFWD 190	11,600	100	10	0.059	0.67	1.39	0.17	0.23	2.48	0.75	1.54	4.78
Spin Spreader	5 ton	MFWD 190	10,600	100	8	0.042	0.85	0.98	0.25	0.16	2.26	0.52	1.08	3.87
Spray (ATV Ropewick)	75"	800 CC	540	200	8	0.260	4.13	0.47	0.06	0.43	5.11	0.08	1.78	6.98
Spray (ATV)	12'/17'	800 CC	550	200	8	0.112	1.79	0.20	0.02	0.19	2.21	0.03	0.77	3.02
Spray (ATV)	20'	800 CC	1,250	200	8	0.084	1.34	0.15	0.04	0.14	1.69	0.06	0.58	2.33
Spray (Band)	27' Fold	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Band)	40' Fold	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Band)	50' Fold	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Band)	53' Fold	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Band)	60' Fold	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,070	200	8	0.130	2.06	2.40	0.30	0.44	5.22	0.38	2.78	8.39
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,960	200	8	0.084	1.34	1.56	0.23	0.29	3.43	0.29	1.80	5.53
Spray (Bcast/HB)	27' Fold	MFWD 170	9,910	200	8	0.062	0.99	1.31	0.29	0.25	2.84	0.36	1.63	4.84
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,850	200	8	0.062	0.99	1.31	0.20	0.25	2.75	0.25	1.63	4.64
Spray (Bcast/HB)	30' Fold	MFWD 170	13,000	200	8	0.056	0.89	1.17	0.34	0.22	2.64	0.42	1.47	4.54
Spray (Bcast/HB)	40' Fold	MFWD 170	13,800	200	8	0.042	0.67	0.88	0.27	0.16	2.00	0.34	1.10	3.44
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	0.99	1.31	0.60	0.25	3.16	0.74	1.63	5.54
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.67	0.88	0.48	0.16	2.21	0.60	1.10	3.91
Spray (Broadcast)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Broadcast)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Broadcast)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Broadcast)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Broadcast)	60'	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Direct/Hood)	8R-30	MFWD 170	14,500	200	8	0.084	1.34	1.76	0.57	0.33	4.02	0.71	2.20	6.95
Spray (Direct/Hood)	8R-38	MFWD 170	15,700	200	8	0.066	1.06	1.39	0.49	0.26	3.22	0.61	1.74	5.57
Spray (Direct/Hood)	12R-30	MFWD 170	18,400	200	8	0.056	0.89	1.17	0.48	0.22	2.78	0.60	1.47	4.86
Spray (Direct/Hood)	12R-38	MFWD 170	18,800	200	8	0.044	0.70	0.93	0.39	0.17	2.20	0.48	1.16	3.85
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.34	1.76	0.41	0.33	3.86	0.51	2.20	6.59
Spray (Direct/Layby)	8R-38	MFWD 170	11,000	200	8	0.066	1.06	1.39	0.34	0.26	3.07	0.42	1.74	5.24
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.07	1.41	0.38	0.27	3.14	0.48	1.76	5.39
Spray (Direct/Layby)	12R-30	MFWD 170	15,400	200	8	0.056	0.89	1.17	0.40	0.22	2.70	0.50	1.47	4.68
Spray (Direct/Layby)	12R-38	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.00	1.32	0.29	0.25	2.87	0.36	1.65	4.89
Spray (Levee Leaper)	50'	MFWD 225	11,500	200	8	0.033	0.53	0.93	0.18	0.17	1.82	0.22	1.10	3.16
Spray (Pull Type)	60'	MFWD 225	26,500	200	8	0.028	0.44	0.78	0.35	0.14	1.72	0.43	0.92	3.08
Spray (Pull Type)	80'	MFWD 225	36,400	200	8	0.021	0.33	0.58	0.36	0.10	1.38	0.44	0.69	2.53
Spray (Pull Type)	90'	2WD 50	36,800	200	8	0.018	0.29	0.11	0.32	0.01	0.75	0.40	0.08	1.23
Spray (Pull Type)	100'	MFWD 225	39,000	200	8	0.016	0.26	0.46	0.30	0.08	1.13	0.38	0.55	2.07
Spray (Pull Type)	120'	MFWD 225	48,800	200	8	0.014	0.22	0.39	0.32	0.07	1.00	0.40	0.46	1.87
Spray (Ropewick)	20'	MFWD 190	2,390	200	8	0.084	1.34	1.97	0.09	0.33	3.75	0.11	2.19	6.06
Spray (Spot)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Spot)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Spray (Spot)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Spot)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Spot)	60'	MFWD 225	9,580	200	8	0.028	0.44	0.78	0.12	0.14	1.49	0.15	0.92	2.58
Stalk Shredder	14'	MFWD 150	12,000	200	10	0.117	1.33	2.17	1.23	0.40	5.15	0.77	2.51	8.44
Stalk Shredder	20'	MFWD 150	30,200	200	10	0.082	0.93	1.52	2.18	0.28	4.92	1.36	1.76	8.04
Stalk Shredder-Flail	12'	MFWD 150	14,400	200	10	0.137	1.56	2.53	1.73	0.47	6.30	1.08	2.93	10.32
Stalk Shredder-Flail	15'	MFWD 150	18,100	200	10	0.110	1.24	2.02	1.74	0.37	5.39	1.08	2.35	8.83
Stalk Shredder-Flail	18'	MFWD 150	22,700	200	10	0.091	1.04	1.69	1.82	0.31	4.86	1.13	1.95	7.96
Stalk Shredder-Flail	20'	MFWD 150	23,100	200	10	0.082	0.93	1.52	1.66	0.28	4.40	1.04	1.76	7.21
Stalk Shredder-Flail	25'	MFWD 150	30,800	200	10	0.066	0.74	1.21	1.77	0.22	3.97	1.11	1.41	6.49
Strip Till	12R-30	MFWD 225	28,600	150	10	0.061	0.69	1.70	0.76	0.31	3.47	1.28	2.01	6.78
Subsoiler	3 shank	MFWD 190	3,360	100	15	0.204	2.31	4.77	0.22	0.81	8.13	0.59	5.29	14.02
Subsoiler	4 shank	MFWD 225	6,390	100	15	0.153	1.74	4.25	0.32	0.77	7.09	0.84	5.03	12.98
Subsoiler	5 shank	MFWD 225	6,610	100	15	0.122	1.38	3.38	0.26	0.61	5.66	0.69	4.01	10.37
Subsoiler low-till	4 shank	MFWD 225	1,060	100	15	0.153	1.74	4.25	0.05	0.77	6.82	0.14	5.03	12.00
Subsoiler low-till	6 shank	MFWD 225	15,100	100	15	0.102	1.15	2.82	0.51	0.51	5.01	1.33	3.34	9.69
Subsoiler low-till	8 shank	MFWD 225	18,000	100	15	0.076	0.86	2.11	0.45	0.38	3.83	1.18	2.50	7.52
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.31	5.65	1.05	1.03	10.06	1.90	6.69	18.66
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.82	4.45	0.83	0.81	7.92	1.49	5.27	14.69
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.22	2.97	0.75	0.54	5.49	1.35	3.52	10.37

## 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, 2011

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Manzate 75 DF	lb	3.48
Crop Oil Conc.(Pet.)	pt	1.41	Manzate Flowable	pt	4.60
Crop Oil Conc.(Veg.)	pt	3.33	Moncut 70 DF	lb	24.85
Drift/Defoamer	pt	5.75	Prevail	lb	27.24
Spreader Sticker	pt	3.77	Provost	oz	2.16
Surfactant	pt	2.44	Quadris	oz	2.52
CLEANING			Quadris Ridomil Gold	oz	3.26
Cleaning Peanuts	ton	18.00	Quilt	pt	20.25
CROP CONSULTANT			Ridomil Gold PC GR	lb	2.24
Rice Consultant	acre	7.50	Rovral 4F	pt	17.83
CUSTOM FERTILIZE			Stiletto	oz	0.56
App Fert by Air	cwt	6.25	Stratego	pt	17.77
App Fert by Air(Min)	appl	6.25	Terrachlor 2EC	pt	1.87
Custom Apply Fert	acre	6.25	Terraclor Super X G	lb	2.82
CUSTOM LIME			Tilt 3.6 EC	oz	2.15
Lime (Spread)	ton	46.00	Tilt/ Bravo SE	oz	0.45
CUSTOM PLANT			Uniform	oz	2.96
Custom Plant	acre	7.00	Vitavax 200	oz	0.47
Custom Plant Air	cwt	6.25	Vitavax RTU-Thiram	oz	0.35
CUSTOM SPRAY			GINNING		
App by Air ( 2 gal)	appl	3.50	Gin & Haul	lb	0.09
App by Air ( 3 gal)	appl	4.00	GROWTH REGULATORS		
App by Air ( 5 gal)	appl	5.50	Early Harvest PGR	oz	1.55
App by Air (10 gal)	appl	7.25	Mepex	oz	0.10
Custom Spray	acre	6.00	Mepex Gin Out	oz	0.23
DRYING			Mepichlor 4.2% Liq	oz	0.25
Dry Corn	bu	0.19	Mepiquat	oz	0.08
Dry Grain Sorghum	cwt	0.25	Mepiquat Extra	oz	0.10
Dry Peanuts	ton	24.00	Pentia	pt	4.36
Dry Rice	bu	0.40	PGR IV	oz	1.55
ERADICATION FEE			Stance	oz	1.10
Eradication	acre	2.00	SuperBoll	pt	3.07
FERTILIZERS			HARVEST AIDS		
Amm Nitrate (34% N)	cwt	18.00	Aim 2EC	oz	6.56
Amm Sulfate (21% N)	cwt	14.00	Ammonium Sulfate	lb	0.14
Anhy Ammonia (82%)	cwt	28.00	Boll Buster	pt	3.27
Boron 15G	lb	0.42	CottonQuik	pt	4.25
Boron Plus	pt	3.99	Def 6	pt	6.50
DAP	cwt	25.00	Def/Folex	pt	6.53
Fert 10-34-0	cwt	22.00	Defol 3	gal	3.35
Fert 11-37-0	cwt	23.50	Defol 5	gal	5.82
Fert 33-0-0-12s	cwt	19.00	Defol 6	gal	4.69
Fert 41-0-0-4	cwt	18.50	Defol 750	pt	1.22
MAP	cwt	27.00	Dropp 50 WP	lb	45.45
Phosphorus(46% P2O5)	cwt	22.00	Dropp SC	oz	1.74
Potash (60% K2O)	cwt	23.00	ET	pt	43.31
Sulfur 90%	lb	0.20	Ethephon 6E	pt	2.85
Sulfur Plus	pt	2.37	Finish 6	pt	7.29
UAN (32% N)	cwt	12.50	First Pick	pt	3.21
UAN + Sulfur (28%)	cwt	12.00	Folex 6EC	pt	6.56
Urea, Solid (46% N)	cwt	19.00	Freefall SC	oz	1.52
Zinc Sulfate 31%	lb	0.55	Ginstar EC	pt	27.36
FUNGICIDES			Gramoxone Inteon	oz	0.25
Abound	pt	29.97	Gramoxone Max	pt	5.46
Absolute 500SC	pt	53.42	Harvade 5F	oz	0.67
Allegiance Flowable	pt	49.74	Prep	pt	3.19
Apron Maxx RTA	oz	0.74	Shed-a-leaf	gal	3.60
Apron Maxx RTA+Moly	pt	15.01	Sodium Chlorate 3L	gal	3.35
Apron XL LS	oz	8.51	Sodium Chlorate 5L	gal	5.82
Artisan	oz	.85	Sodium Chlorate 6L	gal	4.69
Bravo Ultrex	lb	6.83	TDZ SC	oz	1.37
Bravo Weather Stick	pt	5.69	Thidiazuron 4lb	oz	1.74
Captan 50 WP	lb	5.62	Tribufos 6lb	pt	6.53
Cotton Seed Trt.	acre	20.00	HAULING		
Dithane F-45	qt	7.11	Haul Corn/Bin	bu	0.18
Dithane Rainshield	lb	2.54	Haul Corn/Field	bu	0.26
Folicur 3.6	oz	1.08	Haul Cotton	lb	0.02
Fungicide	lb	2.82	Haul Peanuts	ton	14.50
Gem 25 WG	oz	3.70	Haul Rice/Bin	bu	0.18
Headline	oz	2.60			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.27	Expert	pt	3.68
Haul Sorghum/Bin	bu	0.18	Facet 75DF	lb	49.92
Haul Sorghum/Field	bu	0.26	Finesse	oz	16.36
Haul Soybeans/Bin	bu	0.18	First Rate	oz	37.48
Haul Soybeans/Field	bu	0.26	Flexstar HL	pt	15.24
Haul Wheat/Bin	bu	0.18	FloMet 4L	pt	4.74
Haul Wheat/Field	bu	0.26	Flomet DF	lb	6.61
HERBICIDES			Fluometuron 4lb	pt	4.81
2,4-D Amine 4	pt	1.74	Frontier 6.0	oz	0.63
2,4-D LV 4Ester	pt	2.10	Fultime	pt	4.27
2,4-D Weedar 64	pt	1.72	Fusilade DX	oz	1.46
2,4-DB 200	pt	4.34	Fusion	pt	23.84
AAtrex 4L	pt	2.58	Glyphos	pt	1.66
AAtrex NINE-O	lb	4.57	Glyphos Xtra	pt	1.69
Accent Gold	oz	6.12	Glyphosate 3lbs a.e.	pt	1.75
Accent Q	oz	28.05	Glyphosate 3lbs a.e.	oz	0.11
Accent SP	oz	29.01	Glystar	pt	1.66
Aim 2EC	oz	6.56	Glystar Plus	pt	1.69
Assure II	oz	1.08	Goal 2XL	pt	9.58
Atrazine 4L	pt	2.10	Gramoxone Inteon	oz	0.25
Atrazine 90DF	lb	4.14	Gramoxone Max	pt	5.46
Axial	pt	14.08	Grandstand R	qt	25.10
Axiom 68DF	lb	25.74	Guardman Max	pt	6.29
Banvel	pt	6.31	Halex GT	pt	5.29
Basagran	pt	12.16	Harmony Extra SG	oz	12.76
Basis Gold	lb	9.00	Harmony Extra XP	oz	11.75
Beacon 75% WSP	oz	31.45	Harmony GT	oz	19.35
Beyond	oz	4.47	Harness	pt	11.88
Bicep II	pt	4.00	Harness XTRA	pt	7.31
Bicep II Magnum	qt	10.57	Hoelon 3EC	pt	11.03
Bicep Lite Magnum	pt	7.07	Honcho Plus	pt	3.98
Blazer Ultra	pt	8.56	Hornet WDG	lb	65.62
Bolero 8EC	pt	5.73	Ignite 280	pt	6.57
Boundary 6.5 EC	pt	10.09	Impact	oz	21.39
Buccaneer Plus	pt	1.81	Karmex XP	lb	6.41
Buctril 2EC	pt	15.80	Lariat	qt	5.71
Buctril 4EC	pt	16.40	Layby Pro	qt	11.68
Bullet	pt	2.97	Lexar	pt	5.56
Butoxone 200(2,4-DB)	pt	4.04	Liberty	pt	8.31
Butyrac 200 (2,4-DB)	pt	4.09	Lightning	oz	13.28
Cadre	oz	4.20	Linex 4L	pt	8.65
Callisto 4SC	oz	4.63	Londax 60DF	oz	14.29
Canopy 75%	oz	3.15	Lorox 50DF	lb	18.83
Canopy EX	oz	6.31	Me-Too-Lachlor	pt	6.43
Caparol 4L	pt	3.36	MSMA 6.6	pt	2.69
Celebrity Plus	lb	84.50	MSMA6 Plus	pt	2.63
Clarity	pt	11.86	Newpath 2SL	oz	3.84
Classic	oz	14.55	Option	oz	9.92
Clearpath	lb	59.94	Ordram 15-GM	lb	1.34
Clincher SF	oz	1.98	Ordram 8-E	pt	9.42
Cobra 2EC	oz	1.26	Osprey	oz	3.27
Command 3ME	pt	15.45	Outlook	pt	21.29
Cornerstone Plus	pt	1.50	Parrlay	pt	9.15
Cotoran 4L	pt	4.88	Peak Accu Pak	oz	12.63
Cotoran DF	lb	7.92	Pendimax 3.3	pt	2.47
Cotton Pro	pt	3.13	Permit 75 DF	oz	19.00
Credit Extra	pt	1.69	Poast 1.53	pt	9.47
Direx 4L	pt	3.54	Poast Plus	pt	7.37
Diuron 4L	pt	2.91	Prefix	pt	6.13
Diuron 80 DF	lb	4.55	Prometryne	pt	2.87
Diuron 80%	lb	4.55	Propimax EC	pt	36.08
DSMA 3.6lb Liq	pt	1.24	Prowl 3.3 EC	pt	4.29
Dual II Magnum	pt	13.26	Prowl H20	pt	4.65
Dual Magnum	pt	12.64	Pursuit 2S	oz	4.56
Duet	pt	4.39	Pursuit DG	oz	11.59
Envoke	oz	82.50	Pursuit Plus EC	pt	7.10
Equip	oz	10.65	Python WDG	oz	12.48
Evik DF 80W	lb	8.66	Raptor	oz	4.62
Exceed	oz	10.71			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Reflex 2LC	pt	14.68	Confirm 2F	oz	1.62
Regiment 80WP	oz	35.02	Counter 15G	lb	2.58
Remedy Ultra	pt	11.86	Cruiser 5FS	oz	13.25
Resource .86EC	pt	23.91	Curacron 8E	pt	10.37
RicePro	pt	4.50	Cypermethrin	oz	0.63
Riceshot	pt	2.98	Declare	pt	4.08
Ricestar HT	pt	20.64	Delta Gold	pt	40.47
Rifel	pt	5.66	Denim 0.16 EC	pt	26.42
Roundup Original Max	oz	0.45	Di-Syston 15G	lb	3.48
Roundup Original Max	pt	7.25	Di-Syston 8	pt	14.32
Roundup Power Max	oz	0.26	Diamond .83EC	pt	16.28
Roundup PowerMax	pt	4.14	Dimethoate 4E	pt	5.63
Roundup WeatherMax	oz	0.28	Dimilin 2L	oz	1.73
Roundup WeatherMax	pt	4.43	Dipel DF	lb	11.75
Scepter 70 DG	oz	3.81	Dipel ES	pt	4.56
Select 2EC	oz	1.53	Discipline 2 EC	oz	0.78
Select Max	pt	16.95	Endigo ZC	pt	25.82
Sencor 4F	pt	14.74	Fanfare 2EC	oz	0.78
Sencor DF	lb	14.85	Force 3G	lb	5.06
Sequence	pt	5.57	Furadan 4F	pt	10.36
Simazine 4L	pt	2.95	Gaicho 600	oz	6.56
Stalwart	pt	5.87	Hero	pt	22.11
Stam 80 EDF	lb	5.30	Holster	pt	8.76
Stam M4	qt	6.93	Imidan 70 WSB	oz	0.60
Staple	oz	16.01	Incidental Pest Trt	acre	12.00
Staple LX	oz	7.09	Intrepid 2F	oz	1.66
Steadfast	oz	22.59	Intruder 70WSP	oz	8.43
Sterling Blue	pt	9.48	Karate Z	oz	2.87
Storm	pt	11.18	Kelthane MF 4EC	pt	5.03
Strada WG	oz	5.94	Lannate LV	pt	8.81
Strongarm	oz	43.49	Lannate SP	oz	1.69
Superwham	qt	7.62	Larvin 3.2	oz	0.57
Suprend	lb	11.18	Leverage 2.7	oz	1.37
Surpass EC	qt	23.75	Lorsban 15G	lb	1.80
Synchrony XP	oz	9.47	Lorsban 4E	pt	6.20
Touchdown HiTech	qt	9.12	Malathion 57EC	pt	4.23
Touchdown Total	qt	7.66	Malathion 5E	pt	4.09
Treflan HFP	pt	3.16	Malathion 8E	pt	5.50
Treflan TR-10	lb	0.92	Methyl 4EC	pt	4.84
Trifluralin 4EC	pt	2.97	Methyl Parathion 4	pt	4.63
Ultra Blazer	pt	9.19	Monitor 4	pt	16.33
Valor SX	oz	4.72	Mustang Max	oz	1.30
Valor XLT	oz	3.59	Oberon 4 SC	pt	71.82
Weedone LV4	pt	2.97	Orthene 90S	lb	3.25
Whip 360	pt	25.08	Pennacap-M	pt	3.50
Zorial Rapid 80DF	lb	13.95	Phorate	lb	2.69
INOCULANT			Pounce 25WP	lb	10.63
Vault	oz	1.65	Prolex	oz	2.94
Optimize Lift	oz	.56	Provado 1.6F	oz	1.94
INSECT SCOUTING			Respect .8EC	pt	29.04
Insect Scouting	acre	7.00	Sevin 4F	pt	4.97
INSECTICIDES			Sevin 80S	lb	7.35
Acephate 90%	lb	8.21	Sevin XLR Plus	qt	10.56
Acephate 90SP	lb	6.46	Sniper	oz	0.86
Acramite-4SC	oz	1.37	Steward	pt	25.71
Ambush 2E	oz	0.27	Temik 15G Grit	lb	3.80
Ammo 2.5 EC	oz	0.92	Temik 15G Gypsum	lb	3.14
Asana .66 XL	oz	0.68	Thimet 20-G Lock N L	lb	2.84
Aztec 2.1% G	lb	2.84	Thionex 3 EC	pt	3.47
Baythroid XL	oz	2.17	Thionex 50W	lb	8.20
Bidrin 8WM	oz	0.85	Tombstone 2E	pt	29.00
Bidrin XP	oz	1.84	Tracer 4SC	oz	7.64
Bifenture 2EC	pt	12.50	Trimax	oz	3.11
Brigade EC	pt	15.10	Trimax Pro	oz	2.73
Brigade WSB	lb	21.00	Vydate C-LV	oz	0.62
Capture 2EC	oz	1.50	Warrior Z	oz	1.85
Carbaryl 4L	pt	4.34	Wrangler	oz	1.70
Carbine 50WG	oz	4.44	Zeal	oz	18.06
Centric 40WG	oz	4.22	Zephyr	oz	2.79
Comite 1l	pt	6.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
IRRIGATION SUPPLIES			Soybean Seed LL	lb	0.89
Roll-Out Pipe	ft	0.20	Soybean Seed RR	lb	0.99
SEED/PLANTS			Soybean Seed Stack	lb	1.28
Corn Seed BtRR	thous	2.90	Wheat Seed Private	lb	0.27
Corn Seed RR	thous	2.56	SURVEY & MARK LEVEES		
Corn Seed VT3	thous	2.84	Survey & Mark Levees	acre	4.50
Corn Seed VT3Pro	thous	3.12	Survey & Mark Levees	acre	3.50
Cotton Seed B2RF	thous	0.61	TECHNOLOGY FEE		
Cotton Seed LL	thous	1.05	B2 Tech Fee	thous	.76
Cotton Seed LLB2	thous	1.53	B2 Tech Fee	cap/ac	35.25
Cotton Seed RF	thous	0.57	B2RF Tech Fee	thous	1.49
Cotton Seed W	thous	0.49	B2RF Tech Fee	cap/ac	69.25
Cotton Seed WRF	thous	0.59	RF Cotton Tech Fee	thous	1.04
Peanut Seed	lb	0.75	RF Cotton Tech Fee	cap/ac	48.25
Rice Clearfield	lb	0.89	WS Cotton Tech Fee	thous	.41
Rice Clearfield Hyb	lb	5.44	WS Cotton Tech Fee	cap/ac	24.00
Rice Conv. Hybrid	lb	2.61	WRF Cotton Tech Fee	thous	1.45
Rice Seed (Levees)	lb	0.36			
Rice Seed CF(Levees)	lb	0.89			
Rice Seed CFH(Levee)	lb	1.74			
Rice Seed Conv.	lb	0.36			
Sorghum Concept	lb	1.77			
Sorghum Hybrid Sudax	lb	1.20			



Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2011

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.39
Gasoline	gal	2.61
LP Gas	gal	2.50
INTEREST RATES		
Short-term	%	4.33
Intermediate-term	%	5.50

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2011

Item name		
LABOR TYPES		
		WAGE RATE (\$/HR)
OPERATOR LABOR	hour	11.35
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, 2011

	Unit	Futures Contract Month	Futures Contract Price <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>c</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
Corn	bu	Dec '11	5.12	-0.2712	4.85	2.08	4.85
Cotton Lint	lb	Dec '11	0.872	-0.0264	0.846	.524	0.846
Cottonseed	lb						0.069 <sup>f</sup>
Grain Sorghum	bu				4.56	2.02	4.56
Peanuts	ton				550.00	355.00	550.00
Soybeans	bu	Nov '11	11.32	-0.3070	11.00	5.17	11.00
Rice	bu	Sep '11	6.44	-0.7570	5.68	2.96	5.68
Wheat	bu	Jul '11	7.45	-0.6942	6.75	1.90	6.75

<sup>a</sup> Average of the futures contract month closings in October.

<sup>b</sup> The basis is computed by subtracting the 2001-2010 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.

<sup>c</sup> 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 94% of the forward contract price for corn. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

<sup>d</sup> Average Mississippi loan rate for the 2010 crop year for soybeans, corn, grain sorghum, and wheat. 2010 Mississippi base loan rate for the Delta area for cotton. 2010 Mississippi loan rate for long grain rice. 2010 national average loan rate for peanuts.

<sup>e</sup> Price used in the 2011 MAFES Planning Budgets.

<sup>f</sup> Cottonseed price is the marketing year average price averaged over the years 2005-2009, Agricultural Prices Summary, USDA.

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