CORN, GRAIN SORGHUM &WHEAT 2012 PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2011-03

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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 2012 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses**."

Acknowledgments

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

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

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Table of Contents

Page

Foreword i

Acknowledgments i

2012 Budget Committees ii

2012 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 Corn, stale seedbed, BtRR, 8-row 38”, 185 bu yield goal
Furrow irrigated, 13 ac-in., Delta Area 6

2 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38”
135 bu yield goal, Delta Area 12

3 Corn, conventional tillage, RR seed, 8-row 38”
185 bu yield goal, furrow irrigated, 13 ac-in., Delta Area 18

4 Corn, conventional tillage, RR seed, 8-row 38”
135 bu yield goal, non-irrigated, Delta Area 24

5 Corn, stale seedbed, RR seed, 8-row 30”
135 bu yield goal, All Areas 30

6 Corn, no-tillage, BtRR, 8-row 30”, 135 bu yield goal
Non-Delta Areas 36

7 Grain sorghum, 12-row 30”, 100 bu yield goal
All Areas 42

8 Wheat followed by soybeans, 70 bu yield goal
All Areas 48

Appendix
Table

1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour 56
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per hour 57
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre 58
4 Operating inputs: estimated prices 65
5 Estimated fuel prices and interest rates 69
6 Labor types, wage rates and unallocated labor multipliers for crop enterprises 69
7 Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets 70
8 Irrigation with a ¼ mile center pivot system 135-acre system, 7.5 ac-in., Delta Area 71
9 Corn irrigated with roll-out pipe 160-acre system, 13 ac-in., Delta Area 72

Literature Cited 73

2012 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 2011. (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:

$$RPH = \frac{RLC \; x \; RP}{THL}$$

$$RPA = RPH \; x \; PR$$

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

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

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:

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

$$CRCPA = CRCPH \times PR$$

where:

CRCPH = Capital recovery charge per hour
HAU = Hours of annual use
CRCPA = Capital recovery charge per acre
PR = Performance rate

Estimates of Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own operation.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2011 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

Estimated costs of various irrigation systems are presented in Appendix Tables 8 and 9. 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
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	
App by Air (3 gal)	appl	4.50	1.0000	4.50	
FERTILIZERS					
DAP	cwt	32.46	1.8000	58.43	
Potash (60% K2O)	cwt	29.19	1.3750	40.14	
Fert 10-34-0	cwt	29.25	0.5000	14.63	
UAN + Sulfur (28%)	cwt	18.54	3.5710	66.21	
UAN (32% N)	cwt	18.54	4.3750	81.11	
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	
Clarity	pt	10.31	0.5000	5.16	
Lexar	pt	5.72	3.3000	18.88	
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	
SEED/PLANTS					
Corn Seed BtRR	thous	2.93	30.0000	87.90	
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	
HAULING					
Haul Corn/Field	bu	0.24	185.0000	44.40	
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	
OPERATOR LABOR					
Tractors	hour	11.60	0.4883	5.67	
Harvesters	hour	11.60	0.1009	1.17	
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	
Implements	hour	9.06	0.0625	0.57	
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	
UNALLOCATED LABOR	hour	11.57	0.4597	5.32	
DIESEL FUEL					
Tractors	gal	3.40	4.6505	15.80	
Harvesters	gal	3.40	1.6890	5.74	
Roll-Out Pipe Irr.	gal	3.40	10.5901	36.00	
REPAIR & MAINTENANCE					
Implements	acre	6.60	1.0000	6.60	
Tractors	acre	2.14	1.0000	2.14	
Harvesters	acre	2.83	1.0000	2.83	
Roll-Out Pipe Irr.	acre	5.76	1.0000	5.76	
INTEREST ON OP. CAP.	acre	13.37	1.0000	13.37	

TOTAL DIRECT EXPENSES				582.39	
FIXED EXPENSES					
Implements	acre	9.45	1.0000	9.45	
Tractors	acre	13.55	1.0000	13.55	
Harvesters	acre	11.33	1.0000	11.33	
Roll-Out Pipe Irr.	acre	26.91	1.0000	26.91	

TOTAL FIXED EXPENSES				61.24	

TOTAL SPECIFIED EXPENSES				643.63	

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 1.B Summary of estimated costs and returns per acre
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	185.0000	1043.40	_____
TOTAL INCOME				1043.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	_____
FERTILIZERS	acre	260.52	1.0000	260.52	_____
HERBICIDES	acre	31.04	1.0000	31.04	_____
INSECTICIDES	acre	7.16	1.0000	7.16	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	87.90	1.0000	87.90	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	44.40	1.0000	44.40	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.60	0.5893	6.84	_____
UNALLOCATED LABOR	hour	11.57	0.4597	5.32	_____
DIESEL FUEL	gal	3.40	16.9298	57.54	_____
REPAIR & MAINTENANCE	acre	17.33	1.0000	17.33	_____
INTEREST ON OP. CAP.	acre	13.37	1.0000	13.37	_____
TOTAL DIRECT EXPENSES				582.39	_____
RETURNS ABOVE DIRECT EXPENSES				461.01	_____
TOTAL FIXED EXPENSES				61.24	_____
TOTAL SPECIFIED EXPENSES				643.63	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				399.77	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 1.C Estimated resource use for field operations, per acre
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.3750				
Bed-Disk w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					30.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Lexar	pt					3.3000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	325 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.58	0.58	1.15	0.45

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 1.D Estimated costs for field operations, per acre
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.40	0.46	1.31		0.13	3.30	1.75	5.05
DAP	cwt	58.43					2.48	60.91		60.91
Potash (60% K2O)	cwt	40.14					1.71	41.85		41.85
Bed-Disk w/roller	8R-38		2.46	0.76	1.63		0.21	5.06	3.27	8.33
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Plant & Pre-Rigid	8R-38		2.67	1.36	2.50		0.16	6.69	4.25	10.94
Corn Seed BtRR	thous	87.90					2.18	90.08		90.08
Fert 10-34-0	cwt	14.63					0.36	14.99		14.99
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	66.21					1.41	67.62		67.62
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Glyphosate 3lbs a.e.	pt	3.50					0.07	3.57		3.57
Lexar	pt	18.88					0.40	19.28		19.28
Fert Appl (Liquid)	8R-38		2.58	1.25	2.06		0.10	5.99	3.25	9.24
UAN (32% N)	cwt	81.11					1.44	82.55		82.55
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-38		5.74	4.13	2.22		0.04	12.13	13.32	25.45
Grain Cart Corn	700 bu		0.83	0.30	0.55		0.01	1.69	1.05	2.74
Haul Corn/Field	bu	44.40					0.16	44.56		44.56
Stalk Shredder	20'		2.74	2.57	1.82		0.03	7.16	3.71	10.87
Roll-Out Pipe Irr.	acre	6.60	38.18	6.22	4.44		0.78	56.22	29.65	85.87
TOTALS		476.87	57.54	17.33	17.28	0.00	13.37	582.39	61.24	643.63

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 1.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

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	1043.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	98.57	0.00	0.00	0.00	0.00	14.63	66.21	81.11	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	22.38	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	87.90	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.40
CUSTOM LIME	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.38	0.00	0.00	0.00	0.00	2.50	0.75	2.29	2.98	0.23	0.56	4.59
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.12	0.00	0.00	0.00	0.00	2.67	0.94	2.58	27.49	9.00	0.43	9.31
REPAIR & MAINTENANCE	1.47	0.00	0.00	0.00	0.00	1.36	0.28	1.25	5.04	0.83	0.10	7.00
INTEREST ON OP. CAP.	5.55	0.00	0.00	0.00	0.41	2.70	2.07	1.54	0.75	0.10	0.01	0.24
TOTAL DIRECT EXPENSES	136.09	0.00	0.00	0.00	14.82	111.76	99.63	88.77	54.52	10.16	1.10	65.54
NET INCOME	-136.09	0.00	0.00	0.00	-14.82	-111.76	-99.63	-88.77	-54.52	-10.16	-1.10	977.86
NET INCOME TO DATE	-136.09	-136.09	-136.09	-136.09	-150.91	-262.67	-362.30	-451.07	-505.59	-515.75	-516.85	461.01

Note: Cost of production estimates are based on 2011 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 1.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal
Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	92.50	bu	-168	-142	-116	-90	-64	-38	-12	13	39	65	92
			-230	-203	-177	-151	-125	-99	-73	-47	-21	4	30
60	111.00	bu	-95	-63	-32	-1	30	61	92	124	155	186	217
			-156	-124	-93	-62	-31	0	31	62	94	125	156
70	129.50	bu	-21	15	51	88	124	161	197	234	270	307	343
			-82	-45	-9	27	63	100	136	173	209	246	282
80	148.00	bu	52	94	136	177	219	261	302	344	386	428	469
			-8	33	74	116	158	200	241	283	325	366	408
90	166.50	bu	126	173	220	267	314	361	408	455	501	548	595
			65	112	159	205	252	299	346	393	440	487	534
100	185.00	bu	200	252	304	356	408	461	513	565	617	669	721
			138	191	243	295	347	399	451	504	556	608	660
110	203.50	bu	273	331	388	446	503	560	618	675	733	790	847
			212	270	327	384	442	499	557	614	671	729	786
120	222.00	bu	347	410	472	535	598	660	723	785	848	911	973
			286	349	411	474	536	599	662	724	787	849	912
130	240.50	bu	421	489	557	625	692	760	828	896	964	1031	1099
			360	428	495	563	631	699	767	835	902	970	1038
140	259.00	bu	495	568	641	714	787	860	933	1006	1079	1152	1225
			434	507	580	653	726	799	872	945	1018	1091	1164
150	277.50	bu	569	647	725	803	882	960	1038	1116	1195	1273	1351
			507	586	664	742	820	899	977	1055	1133	1212	1290

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 2011 input prices.

Table 2.A Estimated costs per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	_____
App by Air (3 gal)	appl	4.50	1.0000	4.50	_____
FERTILIZERS					
DAP	cwt	32.46	1.0870	35.28	_____
Potash (60% K2O)	cwt	29.19	0.8300	24.23	_____
Fert 10-34-0	cwt	29.25	0.5000	14.63	_____
UAN + Sulfur (28%)	cwt	18.54	2.1430	39.73	_____
UAN (32% N)	cwt	18.54	3.2815	60.84	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Clarity	pt	10.31	0.5000	5.16	_____
Lexar	pt	5.72	3.3000	18.88	_____
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	_____
SEED/PLANTS					
Corn Seed BtRR	thous	2.93	26.0000	76.18	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.24	135.0000	32.40	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.4098	4.76	_____
Harvesters	hour	11.60	0.1009	1.17	_____
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	_____
UNALLOCATED LABOR	hour	11.57	0.4597	5.32	_____
DIESEL FUEL					
Tractors	gal	3.40	4.0079	13.62	_____
Harvesters	gal	3.40	1.3770	4.68	_____
REPAIR & MAINTENANCE					
Implements	acre	6.44	1.0000	6.44	_____
Tractors	acre	1.84	1.0000	1.84	_____
Harvesters	acre	2.53	1.0000	2.53	_____
INTEREST ON OP. CAP.	acre	9.66	1.0000	9.66	_____

TOTAL DIRECT EXPENSES				412.35	_____
FIXED EXPENSES					
Implements	acre	8.54	1.0000	8.54	_____
Tractors	acre	11.72	1.0000	11.72	_____
Harvesters	acre	10.15	1.0000	10.15	_____

TOTAL FIXED EXPENSES				30.41	_____

TOTAL SPECIFIED EXPENSES				442.76	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 2.B Summary of estimated costs and returns per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	135.0000	761.40	_____
TOTAL INCOME				761.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	_____
FERTILIZERS	acre	174.71	1.0000	174.71	_____
HERBICIDES	acre	31.04	1.0000	31.04	_____
INSECTICIDES	acre	7.16	1.0000	7.16	_____
SEED/PLANTS	acre	76.18	1.0000	76.18	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	32.40	1.0000	32.40	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
OPERATOR LABOR	hour	11.60	0.5107	5.93	_____
UNALLOCATED LABOR	hour	11.57	0.4597	5.32	_____
DIESEL FUEL	gal	3.40	5.3850	18.30	_____
REPAIR & MAINTENANCE	acre	10.81	1.0000	10.81	_____
INTEREST ON OP. CAP.	acre	9.66	1.0000	9.66	_____
TOTAL DIRECT EXPENSES				412.35	_____
RETURNS ABOVE DIRECT EXPENSES				349.05	_____
TOTAL FIXED EXPENSES				30.41	_____
TOTAL SPECIFIED EXPENSES				442.76	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				318.64	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 2.C Estimated resource use for field operations, per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed-Disk w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					26.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Lexar	pt					3.3000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.51	0.51	0.68	0.45

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 2.D Estimated costs for field operations, per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.40	0.46	1.31		0.13	3.30	1.75	5.05
DAP	cwt	35.28					1.50	36.78		36.78
Potash (60% K2O)	cwt	24.23					1.03	25.26		25.26
Bed-Disk w/roller	8R-38		2.46	0.76	1.63		0.21	5.06	3.27	8.33
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Plant & Pre-Rigid	8R-38		2.67	1.36	2.50		0.16	6.69	4.25	10.94
Corn Seed BtRR	thous	76.18					1.89	78.07		78.07
Fert 10-34-0	cwt	14.63					0.36	14.99		14.99
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	39.73					0.84	40.57		40.57
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Glyphosate 3lbs a.e.	pt	3.50					0.07	3.57		3.57
Lexar	pt	18.88					0.40	19.28		19.28
Fert Appl (Liquid)	8R-38		2.58	1.25	2.06		0.10	5.99	3.25	9.24
UAN (32% N)	cwt	60.84					1.08	61.92		61.92
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-38		4.68	3.83	2.22		0.04	10.77	12.14	22.91
Grain Cart Corn	700 bu		0.83	0.30	0.55		0.01	1.69	1.05	2.74
Haul Corn/Field	bu	32.40					0.11	32.51		32.51
Stalk Shredder	20'		2.74	2.57	1.82		0.03	7.16	3.71	10.87
TOTALS		360.74	18.30	10.81	12.84	0.00	9.66	412.35	30.41	442.76

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 2.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

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	761.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	14.63	39.73	60.84	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	22.38	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	76.18	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.40
CUSTOM LIME	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.94	0.00	0.00	0.00	0.00	2.50	0.75	2.06	0.00	0.00	0.00	4.59
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.86	0.00	0.00	0.00	0.00	2.67	0.94	2.58	0.00	0.00	0.00	8.25
REPAIR & MAINTENANCE	1.22	0.00	0.00	0.00	0.00	1.36	0.28	1.25	0.00	0.00	0.00	6.70
INTEREST ON OP. CAP.	3.81	0.00	0.00	0.00	0.41	2.41	1.50	1.18	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	93.34	0.00	0.00	0.00	14.82	99.75	72.58	67.91	11.82	0.00	0.00	52.13
NET INCOME	-93.34	0.00	0.00	0.00	-14.82	-99.75	-72.58	-67.91	-11.82	0.00	0.00	709.27
NET INCOME TO DATE	-93.34	-93.34	-93.34	-93.34	-108.16	-207.91	-280.49	-348.40	-360.22	-360.22	-360.22	349.05

Note: Cost of production estimates are based on 2011 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 2.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
135 bu yield goal, Delta Area, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-110	-91	-72	-53	-34	-15	3	22	41	60	79
			-140	-121	-102	-83	-64	-45	-26	-7	11	30	49
60	81.00	bu	-56	-33	-11	11	34	57	80	103	126	148	171
			-87	-64	-41	-18	4	27	49	72	95	118	141
70	94.50	bu	-2	23	50	77	103	130	157	183	210	236	263
			-33	-6	20	46	73	99	126	153	179	206	233
80	108.00	bu	50	81	111	142	172	203	233	264	294	325	355
			20	51	81	111	142	172	203	233	264	294	325
90	121.50	bu	104	139	173	207	241	276	310	344	378	413	447
			74	108	142	177	211	245	280	314	348	382	417
100	135.00	bu	158	196	234	272	310	349	387	425	463	501	539
			128	166	204	242	280	318	356	394	432	470	508
110	148.50	bu	212	254	296	338	380	421	463	505	547	589	631
			182	224	265	307	349	391	433	475	517	559	600
120	162.00	bu	266	312	357	403	449	494	540	586	631	677	723
			235	281	327	373	418	464	510	555	601	647	692
130	175.50	bu	320	369	419	468	518	567	617	666	716	765	815
			289	339	388	438	487	537	586	636	685	735	784
140	189.00	bu	374	427	480	534	587	640	693	747	800	853	907
			343	397	450	503	556	610	663	716	770	823	876
150	202.50	bu	427	485	542	599	656	713	770	827	884	941	999
			397	454	511	568	625	683	740	797	854	911	968

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 2011 input prices.

Table 3.A Estimated costs per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	_____
App by Air (3 gal)	appl	4.50	1.0000	4.50	_____
FERTILIZERS					
DAP	cwt	32.46	1.8000	58.43	_____
Potash (60% K2O)	cwt	29.19	1.3750	40.14	_____
UAN + Sulfur (28%)	cwt	18.54	3.5710	66.21	_____
UAN (32% N)	cwt	18.54	4.3750	81.11	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	10.31	0.5000	5.16	_____
Atrazine 4L	pt	2.04	4.0000	8.16	_____
Dual II Magnum	pt	12.25	1.3300	16.29	_____
Accent SP	oz	36.25	0.1675	6.07	_____
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Corn Seed RR2	thous	2.78	30.0000	83.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.24	185.0000	44.40	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.7718	8.95	_____
Harvesters	hour	11.60	0.1009	1.17	_____
Self-Propelled	hour	11.60	0.0044	0.05	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0022	0.02	_____
UNALLOCATED LABOR	hour	11.58	0.7187	8.33	_____
DIESEL FUEL					
Tractors	gal	3.40	7.4227	25.23	_____
Harvesters	gal	3.40	1.3770	4.68	_____
Self-Propelled	gal	3.40	0.0396	0.13	_____
Roll-Out Pipe Irr.	gal	3.40	10.5901	36.00	_____
REPAIR & MAINTENANCE					
Implements	acre	7.52	1.0000	7.52	_____
Tractors	acre	3.41	1.0000	3.41	_____
Harvesters	acre	2.53	1.0000	2.53	_____
Self-Propelled	acre	0.04	1.0000	0.04	_____
Roll-Out Pipe Irr.	acre	5.76	1.0000	5.76	_____
INTEREST ON OP. CAP.	acre	13.69	1.0000	13.69	_____

TOTAL DIRECT EXPENSES				588.33	_____
FIXED EXPENSES					
Implements	acre	12.17	1.0000	12.17	_____
Tractors	acre	21.65	1.0000	21.65	_____
Harvesters	acre	10.15	1.0000	10.15	_____
Self-Propelled	acre	0.24	1.0000	0.24	_____
Roll-Out Pipe Irr.	acre	26.91	1.0000	26.91	_____

TOTAL FIXED EXPENSES				71.12	_____

TOTAL SPECIFIED EXPENSES				659.45	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 3.B Summary of estimated costs and returns per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	185.0000	1043.40	_____
TOTAL INCOME				1043.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	_____
FERTILIZERS	acre	245.89	1.0000	245.89	_____
HERBICIDES	acre	39.18	1.0000	39.18	_____
INSECTICIDES	acre	7.16	1.0000	7.16	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	83.40	1.0000	83.40	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	44.40	1.0000	44.40	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1576	1.43	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.60	0.8771	10.17	_____
UNALLOCATED LABOR	hour	11.58	0.7187	8.33	_____
DIESEL FUEL	gal	3.40	19.4296	66.04	_____
REPAIR & MAINTENANCE	acre	19.26	1.0000	19.26	_____
INTEREST ON OP. CAP.	acre	13.69	1.0000	13.69	_____
TOTAL DIRECT EXPENSES				588.33	_____
RETURNS ABOVE DIRECT EXPENSES				455.07	_____
TOTAL FIXED EXPENSES				71.12	_____
TOTAL SPECIFIED EXPENSES				659.45	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				383.95	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 3.C Estimated resource use for field operations, per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.3750				
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					30.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Accent SP	oz					0.1675				
Cultivate	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.06
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.87	0.87	1.42	0.71

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 3.D Estimated costs for field operations, per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Subsoiler	3 shank		3.40	0.57	2.26		0.26	6.49	3.20	9.69
Disk Harrow	24'		2.72	1.12	1.80		0.24	5.88	3.95	9.83
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.40	0.46	1.31		0.13	3.30	1.75	5.05
DAP	cwt	58.43					2.48	60.91		60.91
Potash (60% K2O)	cwt	40.14					1.71	41.85		41.85
Bed-Disk (Hipper)Rd	8R-38		2.46	0.61	1.63		0.20	4.90	2.87	7.77
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Row Cond Rigid	26'		1.99	0.44	1.31		0.09	3.83	2.45	6.28
Plant - Rigid	8R-38		2.48	1.12	2.32		0.15	6.07	3.67	9.74
Corn Seed RR2	thous	83.40					2.07	85.47		85.47
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	66.21					1.41	67.62		67.62
Atrazine 4L	pt	8.16					0.17	8.33		8.33
Dual II Magnum	pt	16.29					0.35	16.64		16.64
Fert Appl (Liquid)	8R-38		2.58	1.25	2.06		0.10	5.99	3.25	9.24
UAN (32% N)	cwt	81.11					1.44	82.55		82.55
Sprayer 600-750gal	60' 175hp		0.13	0.04	0.12		0.01	0.30	0.24	0.54
Accent SP	oz	6.07					0.11	6.18		6.18
Cultivate	8R-38		2.45	0.73	1.62		0.09	4.89	3.19	8.08
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-38		4.68	3.83	2.22		0.04	10.77	12.14	22.91
Grain Cart Corn	700 bu		0.83	0.30	0.55		0.01	1.69	1.05	2.74
Haul Corn/Field	bu	44.40					0.16	44.56		44.56
Stalk Shredder	20'		2.74	2.57	1.82		0.03	7.16	3.71	10.87
Roll-Out Pipe Irr.	acre	6.60	38.18	6.22	4.44		0.78	56.22	29.65	85.87
TOTALS		465.88	66.04	19.26	23.46	0.00	13.69	588.33	71.12	659.45

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 3.E Estimated monthly income and expense flows per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

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	1043.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	98.57	0.00	0.00	0.00	0.00	0.00	66.21	81.11	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	24.45	6.07	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	83.40	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.40
CUSTOM LIME	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.44	0.00	0.00	0.00	0.00	3.63	0.00	4.03	2.98	0.23	0.56	4.59
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	11.24	0.00	0.00	0.00	0.00	4.47	0.00	5.16	27.49	9.00	0.43	8.25
REPAIR & MAINTENANCE	3.01	0.00	0.00	0.00	0.00	1.56	0.00	2.02	5.04	0.83	0.10	6.70
INTEREST ON OP. CAP.	6.04	0.00	0.00	0.00	0.41	2.31	2.08	1.75	0.75	0.10	0.01	0.24
TOTAL DIRECT EXPENSES	148.30	0.00	0.00	0.00	14.82	95.37	99.74	100.14	54.52	10.16	1.10	64.18
NET INCOME	-148.30	0.00	0.00	0.00	-14.82	-95.37	-99.74	-100.14	-54.52	-10.16	-1.10	979.22
NET INCOME TO DATE	-148.30	-148.30	-148.30	-148.30	-163.12	-258.49	-358.23	-458.37	-512.89	-523.05	-524.15	455.07

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
Corn, conventional tillage, RR seed, 8-row 38",
185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	92.50	bu	-174	-148	-122	-96	-70	-44	-18	7	33	59	86
			-245	-219	-193	-167	-141	-115	-89	-63	-37	-11	14
60	111.00	bu	-100	-69	-38	-7	24	55	86	118	149	180	212
			-172	-140	-109	-78	-46	-15	15	47	78	109	140
70	129.50	bu	-27	9	45	82	118	155	191	228	264	301	338
			-98	-61	-25	11	47	84	120	157	193	230	266
80	148.00	bu	46	88	130	171	213	255	297	338	380	422	463
			-24	17	58	100	142	184	225	267	309	351	392
90	166.50	bu	120	167	214	261	308	355	402	449	496	542	589
			49	96	143	190	237	284	331	377	424	471	518
100	185.00	bu	194	246	298	350	402	455	507	559	611	663	715
			123	175	227	279	331	383	436	488	540	592	644
110	203.50	bu	268	325	382	440	497	554	612	669	727	784	841
			196	254	311	369	426	483	541	598	655	713	770
120	222.00	bu	341	404	467	529	592	654	717	780	842	905	967
			270	333	395	458	521	583	646	708	771	834	896
130	240.50	bu	415	483	551	619	686	754	822	890	958	1026	1093
			344	412	480	547	615	683	751	819	887	954	1022
140	259.00	bu	489	562	635	708	781	854	927	1000	1073	1146	1219
			418	491	564	637	710	783	856	929	1002	1075	1148
150	277.50	bu	563	641	719	797	876	954	1032	1111	1189	1267	1345
			492	570	648	726	805	883	961	1039	1118	1196	1274

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 2011 input prices.

Table 4.A Estimated costs per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	_____
App by Air (3 gal)	appl	4.50	1.0000	4.50	_____
FERTILIZERS					
DAP	cwt	32.46	1.0870	35.28	_____
Potash (60% K2O)	cwt	29.19	0.8300	24.23	_____
UAN + Sulfur (28%)	cwt	18.54	2.1430	39.73	_____
UAN (32% N)	cwt	18.54	3.2815	60.84	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	10.31	0.5000	5.16	_____
Atrazine 4L	pt	2.04	4.0000	8.16	_____
Dual II Magnum	pt	12.25	1.3300	16.29	_____
Accent SP	oz	36.25	0.1675	6.07	_____
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	_____
SEED/PLANTS					
Corn Seed RR2	thous	2.78	26.0000	72.28	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.24	135.0000	32.40	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.6196	7.19	_____
Harvesters	hour	11.60	0.1009	1.17	_____
Self-Propelled	hour	11.60	0.0044	0.05	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0022	0.02	_____
UNALLOCATED LABOR	hour	11.58	0.6524	7.56	_____
DIESEL FUEL					
Tractors	gal	3.40	6.0597	20.60	_____
Harvesters	gal	3.40	1.3770	4.68	_____
Self-Propelled	gal	3.40	0.0396	0.13	_____
REPAIR & MAINTENANCE					
Implements	acre	6.96	1.0000	6.96	_____
Tractors	acre	2.78	1.0000	2.78	_____
Harvesters	acre	2.53	1.0000	2.53	_____
Self-Propelled	acre	0.04	1.0000	0.04	_____
INTEREST ON OP. CAP.	acre	9.90	1.0000	9.90	_____

TOTAL DIRECT EXPENSES				415.37	_____
FIXED EXPENSES					
Implements	acre	10.18	1.0000	10.18	_____
Tractors	acre	17.71	1.0000	17.71	_____
Harvesters	acre	10.15	1.0000	10.15	_____
Self-Propelled	acre	0.24	1.0000	0.24	_____

TOTAL FIXED EXPENSES				38.28	_____

TOTAL SPECIFIED EXPENSES				453.65	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 4.B Summary of estimated costs and returns per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	135.0000	761.40	_____
TOTAL INCOME				761.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	_____
FERTILIZERS	acre	160.08	1.0000	160.08	_____
HERBICIDES	acre	39.18	1.0000	39.18	_____
INSECTICIDES	acre	7.16	1.0000	7.16	_____
SEED/PLANTS	acre	72.28	1.0000	72.28	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	32.40	1.0000	32.40	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1576	1.43	_____
OPERATOR LABOR	hour	11.60	0.7249	8.41	_____
UNALLOCATED LABOR	hour	11.58	0.6524	7.56	_____
DIESEL FUEL	gal	3.40	7.4764	25.41	_____
REPAIR & MAINTENANCE	acre	12.31	1.0000	12.31	_____
INTEREST ON OP. CAP.	acre	9.90	1.0000	9.90	_____
TOTAL DIRECT EXPENSES				415.37	_____
RETURNS ABOVE DIRECT EXPENSES				346.03	_____
TOTAL FIXED EXPENSES				38.28	_____
TOTAL SPECIFIED EXPENSES				453.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				307.75	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 4.C Estimated resource use for field operations, per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					26.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Accent SP	oz					0.1675				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.72	0.72	0.88	0.65

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 4.D Estimated costs for field operations, per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Subsoiler	3 shank		3.40	0.57	2.26		0.26	6.49	3.20	9.69
Disk Harrow	24'		2.72	1.12	1.80		0.24	5.88	3.95	9.83
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.40	0.46	1.31		0.13	3.30	1.75	5.05
DAP	cwt	35.28					1.50	36.78		36.78
Potash (60% K2O)	cwt	24.23					1.03	25.26		25.26
Bed-Disk (Hipper)Rd	8R-38		2.46	0.61	1.63		0.20	4.90	2.87	7.77
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Row Cond Rigid	26'		1.99	0.44	1.31		0.09	3.83	2.45	6.28
Plant - Rigid	8R-38		2.48	1.12	2.32		0.15	6.07	3.67	9.74
Corn Seed RR2	thous	72.28					1.79	74.07		74.07
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	39.73					0.84	40.57		40.57
Atrazine 4L	pt	8.16					0.17	8.33		8.33
Dual II Magnum	pt	16.29					0.35	16.64		16.64
Fert Appl (Liquid)	8R-38		2.58	1.25	2.06		0.10	5.99	3.25	9.24
UAN (32% N)	cwt	60.84					1.08	61.92		61.92
Sprayer 600-750gal	60' 175hp		0.13	0.04	0.12		0.01	0.30	0.24	0.54
Accent SP	oz	6.07					0.11	6.18		6.18
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-38		4.68	3.83	2.22		0.04	10.77	12.14	22.91
Grain Cart Corn	700 bu		0.83	0.30	0.55		0.01	1.69	1.05	2.74
Haul Corn/Field	bu	32.40					0.11	32.51		32.51
Stalk Shredder	20'		2.74	2.57	1.82		0.03	7.16	3.71	10.87
TOTALS		350.35	25.41	12.31	17.40	0.00	9.90	415.37	38.28	453.65

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 4.E Estimated monthly income and expense flows per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

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	761.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	0.00	39.73	60.84	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	24.45	6.07	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	72.28	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.40
CUSTOM LIME	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.00	0.00	0.00	0.00	0.00	3.63	0.00	2.18	0.00	0.00	0.00	4.59
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	9.98	0.00	0.00	0.00	0.00	4.47	0.00	2.71	0.00	0.00	0.00	8.25
REPAIR & MAINTENANCE	2.76	0.00	0.00	0.00	0.00	1.56	0.00	1.29	0.00	0.00	0.00	6.70
INTEREST ON OP. CAP.	4.30	0.00	0.00	0.00	0.41	2.03	1.51	1.30	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	105.55	0.00	0.00	0.00	14.82	83.97	72.69	74.39	11.82	0.00	0.00	52.13
NET INCOME	-105.55	0.00	0.00	0.00	-14.82	-83.97	-72.69	-74.39	-11.82	0.00	0.00	709.27
NET INCOME TO DATE	-105.55	-105.55	-105.55	-105.55	-120.37	-204.34	-277.03	-351.42	-363.24	-363.24	-363.24	346.03

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
Corn, conventional tillage, RR seed, 8-row 38"
135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-113	-94	-75	-56	-37	-18	0	19	38	57	76
			-151	-132	-113	-94	-75	-56	-37	-18	0	19	38
60	81.00	bu	-59	-36	-14	8	31	54	77	100	123	145	168
			-98	-75	-52	-29	-6	16	39	61	84	107	130
70	94.50	bu	-5	20	47	74	100	127	154	180	207	233	260
			-44	-17	9	35	62	89	115	142	169	195	222
80	108.00	bu	47	78	108	139	169	200	230	261	291	322	352
			9	40	70	101	131	161	192	222	253	283	314
90	121.50	bu	101	136	170	204	238	273	307	341	375	410	444
			63	97	132	166	200	234	269	303	337	371	406
100	135.00	bu	155	193	231	269	307	346	384	422	460	498	536
			117	155	193	231	269	307	345	383	421	460	498
110	148.50	bu	209	251	293	335	377	418	460	502	544	586	628
			171	213	255	296	338	380	422	464	506	548	590
120	162.00	bu	263	309	354	400	446	491	537	583	628	674	720
			225	270	316	362	407	453	499	544	590	636	681
130	175.50	bu	317	366	416	465	515	564	614	663	713	762	812
			278	328	377	427	476	526	575	625	674	724	773
140	189.00	bu	371	424	477	530	584	637	690	744	797	850	904
			332	386	439	492	546	599	652	705	759	812	865
150	202.50	bu	424	482	539	596	653	710	767	824	881	938	996
			386	443	500	557	615	672	729	786	843	900	957

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 2011 input prices.

Table 5.A Estimated costs per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	_____
App by Air (3 gal)	appl	4.50	1.0000	4.50	_____
FERTILIZERS					
DAP	cwt	32.46	1.0870	35.28	_____
Potash (60% K2O)	cwt	29.19	0.8300	24.23	_____
UAN + Sulfur (28%)	cwt	18.54	2.1430	39.73	_____
UAN (32% N)	cwt	18.54	3.2815	60.84	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	10.31	0.5000	5.16	_____
Atrazine 4L	pt	2.04	4.0000	8.16	_____
Dual II Magnum	pt	12.25	1.3300	16.29	_____
Steadfast	oz	23.95	0.3750	8.98	_____
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	_____
SEED/PLANTS					
Corn Seed RR2	thous	2.78	28.0000	77.84	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.24	135.0000	32.40	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.5682	6.60	_____
Harvesters	hour	11.60	0.1277	1.48	_____
HAND LABOR					
Implements	hour	9.06	0.1995	1.80	_____
UNALLOCATED LABOR	hour	11.59	0.6263	7.26	_____
DIESEL FUEL					
Tractors	gal	3.40	4.9725	16.90	_____
Harvesters	gal	3.40	1.7419	5.92	_____
REPAIR & MAINTENANCE					
Implements	acre	7.86	1.0000	7.86	_____
Tractors	acre	2.40	1.0000	2.40	_____
Harvesters	acre	3.21	1.0000	3.21	_____
INTEREST ON OP. CAP.	acre	9.88	1.0000	9.88	_____

TOTAL DIRECT EXPENSES				422.13	_____
FIXED EXPENSES					
Implements	acre	11.29	1.0000	11.29	_____
Tractors	acre	15.35	1.0000	15.35	_____
Harvesters	acre	12.84	1.0000	12.84	_____

TOTAL FIXED EXPENSES				39.48	_____

TOTAL SPECIFIED EXPENSES				461.61	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 5.B Summary of estimated costs and returns per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	135.0000	761.40	_____
TOTAL INCOME				761.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	_____
FERTILIZERS	acre	160.08	1.0000	160.08	_____
HERBICIDES	acre	42.09	1.0000	42.09	_____
INSECTICIDES	acre	7.16	1.0000	7.16	_____
SEED/PLANTS	acre	77.84	1.0000	77.84	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	32.40	1.0000	32.40	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1995	1.80	_____
OPERATOR LABOR	hour	11.60	0.6959	8.08	_____
UNALLOCATED LABOR	hour	11.59	0.6263	7.26	_____
DIESEL FUEL	gal	3.40	6.7145	22.82	_____
REPAIR & MAINTENANCE	acre	13.47	1.0000	13.47	_____
INTEREST ON OP. CAP.	acre	9.88	1.0000	9.88	_____
TOTAL DIRECT EXPENSES				422.13	_____
RETURNS ABOVE DIRECT EXPENSES				339.27	_____
TOTAL FIXED EXPENSES				39.48	_____
TOTAL SPECIFIED EXPENSES				461.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				299.79	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 5.C Estimated resource use for field operations, per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Disk Heavy	20'	MFWD 170	0.097	1.00	Oct		0.09	0.09	0.09	0.08
Bed-Disk w/roller	8R-30	MFWD 170	0.093	1.00	Oct		0.09	0.09	0.09	0.08
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Mar		0.09	0.09	0.18	0.08
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
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 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 5.D Estimated costs for field operations, per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.25	0.45	1.31		0.13	3.14	1.69	4.83
DAP	cwt	35.28					1.50	36.78		36.78
Potash (60% K2O)	cwt	24.23					1.03	25.26		25.26
Disk Heavy	20'		2.89	1.21	2.15		0.27	6.52	4.36	10.88
Bed-Disk w/roller	8R-30		2.79	0.89	2.07		0.24	5.99	3.83	9.82
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Plant - Rigid	8R-30		2.81	1.53	2.92		0.18	7.44	4.75	12.19
Corn Seed RR2	thous	77.84					1.93	79.77		79.77
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	39.73					0.84	40.57		40.57
Atrazine 4L	pt	8.16					0.17	8.33		8.33
Dual II Magnum	pt	16.29					0.35	16.64		16.64
Fert Appl (Liquid)	8R-30		2.92	1.42	2.61		0.12	7.07	3.81	10.88
UAN (32% N)	cwt	60.84					1.08	61.92		61.92
Spray (Broadcast)	60'		0.84	0.27	0.75		0.03	1.89	0.94	2.83
Steadfast	oz	8.98					0.16	9.14		9.14
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-30		5.92	4.83	2.81		0.05	13.61	15.32	28.93
Grain Cart Corn	500 bu		0.95	0.32	0.70		0.01	1.98	1.20	3.18
Haul Corn/Field	bu	32.40					0.11	32.51		32.51
Stalk Shredder	20'		2.45	2.55	1.82		0.02	6.84	3.58	10.42
TOTALS		358.82	22.82	13.47	17.14	0.00	9.88	422.13	39.48	461.61

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 5.E Estimated monthly income and expense flows per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

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	761.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	0.00	39.73	60.84	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	24.45	8.98	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	77.84	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.40
CUSTOM LIME	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.53	0.00	0.00	0.00	0.00	2.92	0.00	3.36	0.00	0.00	0.00	5.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.93	0.00	0.00	0.00	0.00	2.81	0.00	3.76	0.00	0.00	0.00	9.32
REPAIR & MAINTENANCE	2.55	0.00	0.00	0.00	0.00	1.53	0.00	1.69	0.00	0.00	0.00	7.70
INTEREST ON OP. CAP.	4.11	0.00	0.00	0.00	0.41	2.11	1.51	1.39	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	100.63	0.00	0.00	0.00	14.82	87.21	72.69	80.02	11.82	0.00	0.00	54.94
NET INCOME	-100.63	0.00	0.00	0.00	-14.82	-87.21	-72.69	-80.02	-11.82	0.00	0.00	706.46
NET INCOME TO DATE	-100.63	-100.63	-100.63	-100.63	-115.45	-202.66	-275.35	-355.37	-367.19	-367.19	-367.19	339.27

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
Corn, stale seedbed, RR seed , 8-row 30",
135 bu yield goal, All Areas, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-120	-101	-82	-63	-44	-25	-6	12	31	50	70
			-159	-140	-121	-102	-83	-64	-45	-26	-7	11	30
60	81.00	bu	-66	-43	-20	2	24	47	70	93	116	139	161
			-105	-83	-60	-37	-14	8	31	53	76	99	122
70	94.50	bu	-12	14	40	67	93	120	147	173	200	227	253
			-52	-25	1	27	54	81	107	134	161	187	214
80	108.00	bu	41	71	102	132	163	193	223	254	284	315	345
			1	32	62	93	123	154	184	214	245	275	306
90	121.50	bu	95	129	163	197	232	266	300	334	369	403	437
			55	89	124	158	192	226	261	295	329	363	398
100	135.00	bu	148	186	225	263	301	339	377	415	453	491	529
			109	147	185	223	261	299	337	375	414	452	490
110	148.50	bu	202	244	286	328	370	412	454	495	537	579	621
			163	205	247	288	330	372	414	456	498	540	582
120	162.00	bu	256	302	347	393	439	485	530	576	622	667	713
			217	262	308	354	399	445	491	536	582	628	673
130	175.50	bu	310	359	409	458	508	557	607	656	706	755	805
			271	320	369	419	468	518	567	617	666	716	765
140	189.00	bu	364	417	470	524	577	630	684	737	790	844	897
			324	378	431	484	538	591	644	697	751	804	857
150	202.50	bu	418	475	532	589	646	703	760	817	875	932	989
			378	435	492	550	607	664	721	778	835	892	949

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 2011 input prices.

Table 6.A Estimated costs per acre
Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
Non-Delta Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	1.0000	5.75	_____
App by Air (3 gal)	appl	4.50	1.0000	4.50	_____
FERTILIZERS					
DAP	cwt	32.46	1.0870	35.28	_____
Potash (60% K2O)	cwt	29.19	0.8300	24.23	_____
Fert 10-34-0	cwt	29.25	0.5000	14.63	_____
UAN (32% N)	cwt	18.54	5.0000	92.70	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Clarity	pt	10.31	0.5000	5.16	_____
Lexar	pt	5.72	3.3000	18.88	_____
INSECTICIDES					
Intrepid 2F	oz	1.79	4.0000	7.16	_____
SEED/PLANTS					
Corn Seed BtRR	thous	2.93	28.0000	82.04	_____
HAULING					
Haul Corn/Field	bu	0.24	135.0000	32.40	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.4231	4.92	_____
Harvesters	hour	11.60	0.1277	1.48	_____
HAND LABOR					
Implements	hour	9.06	0.2283	2.06	_____
UNALLOCATED LABOR	hour	11.57	0.4957	5.74	_____
DIESEL FUEL					
Tractors	gal	3.40	3.2673	11.12	_____
Harvesters	gal	3.40	1.7419	5.92	_____
REPAIR & MAINTENANCE					
Implements	acre	7.07	1.0000	7.07	_____
Tractors	acre	1.49	1.0000	1.49	_____
Harvesters	acre	3.21	1.0000	3.21	_____
INTEREST ON OP. CAP.	acre	8.49	1.0000	8.49	_____

TOTAL DIRECT EXPENSES				403.23	_____
FIXED EXPENSES					
Implements	acre	9.24	1.0000	9.24	_____
Tractors	acre	9.14	1.0000	9.14	_____
Harvesters	acre	12.84	1.0000	12.84	_____

TOTAL FIXED EXPENSES				31.22	_____

TOTAL SPECIFIED EXPENSES				434.45	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 6.B Summary of estimated costs and returns per acre
Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
Non-Delta Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	5.64	135.0000	761.40	
TOTAL INCOME				761.40	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.25	1.0000	10.25	
FERTILIZERS	acre	166.84	1.0000	166.84	
HERBICIDES	acre	31.04	1.0000	31.04	
INSECTICIDES	acre	7.16	1.0000	7.16	
SEED/PLANTS	acre	82.04	1.0000	82.04	
HAULING	acre	32.40	1.0000	32.40	
CUSTOM LIME	acre	22.00	1.0000	22.00	
HAND LABOR	hour	9.06	0.2283	2.06	
OPERATOR LABOR	hour	11.60	0.5508	6.40	
UNALLOCATED LABOR	hour	11.57	0.4957	5.74	
DIESEL FUEL	gal	3.40	5.0092	17.04	
REPAIR & MAINTENANCE	acre	11.77	1.0000	11.77	
INTEREST ON OP. CAP.	acre	8.49	1.0000	8.49	
TOTAL DIRECT EXPENSES				403.23	
RETURNS ABOVE DIRECT EXPENSES				358.17	
TOTAL FIXED EXPENSES				31.22	
TOTAL SPECIFIED EXPENSES				434.45	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				326.95	

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 6.C Estimated resource use for field operations, per acre
Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
Non-Delta Areas, Mississippi, 2012

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 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 6.D Estimated costs for field operations, per acre
Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
Non-Delta Areas, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Lime (Spread)	ton	22.00					0.94	22.94		22.94
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.16					0.15	5.31		5.31
Spin Spreader	5 ton		1.10	0.42	1.31		0.07	2.90	1.46	4.36
DAP	cwt	35.28					0.87	36.15		36.15
Potash (60% K2O)	cwt	24.23					0.60	24.83		24.83
NT Plant&Pre-Rigid	8R-30		2.78	2.00	3.29		0.20	8.27	5.47	13.74
Corn Seed BtRR	thous	82.04					2.03	84.07		84.07
Fert 10-34-0	cwt	14.63					0.36	14.99		14.99
Spray (Broadcast)	27'		1.65	0.37	1.66		0.08	3.76	1.53	5.29
Glyphosate 3lbs a.e.	pt	3.50					0.07	3.57		3.57
Lexar	pt	18.88					0.40	19.28		19.28
Fert Appl (Liquid)	8R-30		2.58	1.36	2.61		0.14	6.69	3.28	9.97
UAN (32% N)	cwt	92.70					1.97	94.67		94.67
App by Air (3 gal)	appl	4.50					0.06	4.56		4.56
Intrepid 2F	oz	7.16					0.10	7.26		7.26
Header - Corn	8R-30		5.92	4.83	2.81		0.05	13.61	15.32	28.93
Grain Cart Corn	500 bu		0.84	0.30	0.70		0.01	1.85	1.03	2.88
Haul Corn/Field	bu	32.40					0.11	32.51		32.51
Stalk Shredder	20'		2.17	2.49	1.82		0.02	6.50	3.13	9.63
TOTALS		351.73	17.04	11.77	14.20	0.00	8.49	403.23	31.22	434.45

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
Intrepid application is necessary only on refuge acres.

Table 6.E Estimated monthly income and expense flows per acre
Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
Non-Delta Areas, Mississippi, 2012

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	761.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	0.00	4.50	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	74.14	92.70	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	8.66	0.00	22.38	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	82.04	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	32.40
CUSTOM LIME	22.00	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	4.60	4.27	0.00	0.00	0.00	0.00	5.33
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	3.88	4.23	0.00	0.00	0.00	0.00	8.93
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	2.42	1.73	0.00	0.00	0.00	0.00	7.62
INTEREST ON OP. CAP.	0.94	0.00	0.00	0.00	0.41	4.13	2.66	0.00	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	22.94	0.00	0.00	0.00	14.82	171.21	127.97	0.00	11.82	0.00	0.00	54.47
NET INCOME	-22.94	0.00	0.00	0.00	-14.82	-171.21	-127.97	0.00	-11.82	0.00	0.00	706.93
NET INCOME TO DATE	-22.94	-22.94	-22.94	-22.94	-37.76	-208.97	-336.94	-336.94	-348.76	-348.76	-348.76	358.17

Note: Cost of production estimates are based on 2011 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 6.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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.23	4.51	4.79	5.07	5.35	5.64	5.92	6.20	6.48	6.76	7.05
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-101	-82	-63	-44	-25	-6	12	31	50	69	88
			-132	-113	-94	-75	-56	-37	-18	0	19	38	57
60	81.00	bu	-47	-24	-1	20	43	66	89	112	135	157	180
			-78	-55	-33	-10	12	35	58	81	103	126	149
70	94.50	bu	6	32	59	86	112	139	166	192	219	246	272
			-24	1	28	54	81	108	134	161	188	214	241
80	108.00	bu	60	90	121	151	181	212	242	273	303	334	364
			28	59	89	120	150	181	211	242	272	302	333
90	121.50	bu	113	148	182	216	251	285	319	353	388	422	456
			82	117	151	185	219	254	288	322	356	391	425
100	135.00	bu	167	205	243	282	320	358	396	434	472	510	548
			136	174	212	250	288	326	365	403	441	479	517
110	148.50	bu	221	263	305	347	389	431	472	514	556	598	640
			190	232	274	316	357	399	441	483	525	567	609
120	162.00	bu	275	321	366	412	458	503	549	595	641	686	732
			244	289	335	381	427	472	518	564	609	655	701
130	175.50	bu	329	378	428	477	527	576	626	675	725	774	824
			298	347	397	446	496	545	595	644	694	743	793
140	189.00	bu	383	436	489	543	596	649	703	756	809	862	916
			352	405	458	511	565	618	671	725	778	831	884
150	202.50	bu	437	494	551	608	665	722	779	836	893	951	1008
			405	462	520	577	634	691	748	805	862	919	976

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 2011 input prices.

Table 7.A Estimated costs per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Custom Spray	acre	6.50	1.0000	6.50	_____
FERTILIZERS					
DAP	cwt	32.46	0.7600	24.67	_____
Potash (60% K2O)	cwt	29.19	0.5800	16.93	_____
UAN (32% N)	cwt	18.54	3.0690	56.90	_____
HERBICIDES					
Bicep II Magnum	qt	11.01	3.0000	33.03	_____
SEED/PLANTS					
Sorghum Concept	lb	1.82	6.0000	10.92	_____
HAULING					
Haul Sorghum/Field	bu	0.24	100.0000	24.00	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.3434	3.98	_____
Harvesters	hour	11.60	0.1021	1.19	_____
HAND LABOR					
Implements	hour	9.06	0.1756	1.59	_____
UNALLOCATED LABOR	hour	11.59	0.4010	4.65	_____
DIESEL FUEL					
Tractors	gal	3.40	3.0053	10.23	_____
Harvesters	gal	3.40	1.3935	4.74	_____
REPAIR & MAINTENANCE					
Implements	acre	4.35	1.0000	4.35	_____
Tractors	acre	1.46	1.0000	1.46	_____
Harvesters	acre	2.56	1.0000	2.56	_____
INTEREST ON OP. CAP.	acre	4.31	1.0000	4.31	_____

TOTAL DIRECT EXPENSES				234.01	_____
FIXED EXPENSES					
Implements	acre	8.52	1.0000	8.52	_____
Tractors	acre	9.28	1.0000	9.28	_____
Harvesters	acre	10.27	1.0000	10.27	_____

TOTAL FIXED EXPENSES				28.07	_____

TOTAL SPECIFIED EXPENSES				262.08	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 7.B Summary of estimated costs and returns per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	5.36	100.0000	536.00	_____
TOTAL INCOME				536.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
FERTILIZERS	acre	98.50	1.0000	98.50	_____
HERBICIDES	acre	33.03	1.0000	33.03	_____
SEED/PLANTS	acre	10.92	1.0000	10.92	_____
HAULING	acre	24.00	1.0000	24.00	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1756	1.59	_____
OPERATOR LABOR	hour	11.60	0.4456	5.17	_____
UNALLOCATED LABOR	hour	11.59	0.4010	4.65	_____
DIESEL FUEL	gal	3.40	4.3989	14.97	_____
REPAIR & MAINTENANCE	acre	8.37	1.0000	8.37	_____
INTEREST ON OP. CAP.	acre	4.31	1.0000	4.31	_____
TOTAL DIRECT EXPENSES				234.01	_____
RETURNS ABOVE DIRECT EXPENSES				301.99	_____
TOTAL FIXED EXPENSES				28.07	_____
TOTAL SPECIFIED EXPENSES				262.08	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				273.92	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 7.C Estimated resource use for field operations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

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% K2O)	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 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 7.D Estimated costs for field operations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Lime (Spread)	ton	22.00					0.94	22.94		22.94
Spin Spreader	5 ton		1.25	0.45	1.31		0.06	3.07	1.69	4.76
DAP	cwt	24.67					0.52	25.19		25.19
Potash (60% K2O)	cwt	16.93					0.36	17.29		17.29
Disk Harrow	24'		2.44	1.10	1.80		0.11	5.45	3.82	9.27
Field Cultivate Fld	32'		1.39	0.58	1.03		0.06	3.06	2.90	5.96
Plant - Rigid	12R-20		2.81	1.78	2.92		0.13	7.64	5.24	12.88
Sorghum Concept	lb	10.92					0.19	11.11		11.11
Custom Spray	acre	6.50					0.12	6.62		6.62
Bicep II Magnum	qt	33.03					0.58	33.61		33.61
Fert Appl (Liquid)	12R-30		2.34	1.30	2.09		0.10	5.83	3.23	9.06
UAN (32% N)	cwt	56.90					1.01	57.91		57.91
Header Wheat/Sorghum	25' Rigid		4.74	3.16	2.26		0.04	10.20	11.19	21.39
Haul Sorghum/Field	bu	24.00					0.09	24.09		24.09
TOTALS		194.95	14.97	8.37	11.41	0.00	4.31	234.01	28.07	262.08

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 7.E Estimated monthly income and expense flows per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

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	536.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	41.60	56.90	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.03	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.92	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	24.00
CUSTOM LIME	22.00	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	4.14	5.01	0.00	0.00	0.00	2.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	5.08	5.15	0.00	0.00	0.00	4.74
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.13	3.08	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	0.94	0.00	0.00	0.00	0.00	0.00	1.11	2.13	0.00	0.00	0.00	0.13
TOTAL DIRECT EXPENSES	22.94	0.00	0.00	0.00	0.00	0.00	54.06	122.72	0.00	0.00	0.00	34.29
NET INCOME	-22.94	0.00	0.00	0.00	0.00	0.00	-54.06	-122.72	0.00	0.00	0.00	501.71
NET INCOME TO DATE	-22.94	-22.94	-22.94	-22.94	-22.94	-22.94	-77.00	-199.72	-199.72	-199.72	-199.72	301.99

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
Grain sorghum, 12-row 30", 100 bu yield goal
All Areas, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Grain Sorghum			4.02	4.28	4.55	4.82	5.09	5.36	5.62	5.89	6.16	6.43	6.70
PERCENT	YIELD	UNIT	dollars										
50	50.00	bu	-20	-7	5	19	32	46	59	72	86	99	113
			-49	-35	-22	-8	4	17	31	44	58	71	84
60	60.00	bu	16	32	48	65	81	97	113	129	145	161	177
			-11	4	20	36	53	69	85	101	117	133	149
70	70.00	bu	54	73	92	110	129	148	167	185	204	223	242
			26	45	64	82	101	120	139	157	176	195	214
80	80.00	bu	92	113	135	156	178	199	221	242	263	285	306
			64	85	107	128	150	171	192	214	235	257	278
90	90.00	bu	130	154	178	202	226	250	274	299	323	347	371
			102	126	150	174	198	222	246	270	295	319	343
100	100.00	bu	167	194	221	248	275	301	328	355	382	409	435
			139	166	193	220	247	273	300	327	354	381	407
110	110.00	bu	205	235	264	294	323	353	382	412	441	471	500
			177	207	236	266	295	325	354	384	413	443	472
120	120.00	bu	243	275	307	340	372	404	436	468	500	533	565
			215	247	279	311	344	376	408	440	472	504	537
130	130.00	bu	281	316	351	385	420	455	490	525	560	594	629
			253	288	322	357	392	427	462	497	532	566	601
140	140.00	bu	319	356	394	431	469	506	544	581	619	656	694
			291	328	366	403	441	478	516	553	591	628	666
150	150.00	bu	356	397	437	477	517	557	598	638	678	718	758
			328	369	409	449	489	529	570	610	650	690	730

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 2011 input prices.

Table 8.A Estimated costs per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	3.0000	17.25	_____
FERTILIZERS					
DAP	cwt	32.46	1.0000	32.46	_____
Potash (60% K2O)	cwt	29.19	0.7500	21.89	_____
Fert 41-0-0-4	cwt	21.88	2.8000	61.26	_____
FUNGICIDES					
Quilt	pt	16.88	0.8750	14.77	_____
HERBICIDES					
Osprey	oz	3.05	4.7500	14.49	_____
Harmony Extra SG	oz	12.50	0.9000	11.25	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.32	90.0000	28.80	_____
ADJUVANTS					
Surfactant	pt	2.62	1.6000	4.19	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	2.8000	17.50	_____
HAULING					
Haul Wheat/Field	bu	0.24	70.0000	16.80	_____
CUSTOM LIME					
Lime (Spread)	ton	44.00	0.5000	22.00	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.2648	3.07	_____
Harvesters	hour	11.60	0.1021	1.19	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	11.61	0.2936	3.41	_____
DIESEL FUEL					
Tractors	gal	3.40	2.3178	7.89	_____
Harvesters	gal	3.40	1.3935	4.74	_____
REPAIR & MAINTENANCE					
Implements	acre	3.03	1.0000	3.03	_____
Tractors	acre	1.13	1.0000	1.13	_____
Harvesters	acre	2.56	1.0000	2.56	_____
INTEREST ON OP. CAP.	acre	6.79	1.0000	6.79	_____

TOTAL DIRECT EXPENSES				297.70	_____
FIXED EXPENSES					
Implements	acre	6.72	1.0000	6.72	_____
Tractors	acre	7.16	1.0000	7.16	_____
Harvesters	acre	10.27	1.0000	10.27	_____

TOTAL FIXED EXPENSES				24.15	_____

TOTAL SPECIFIED EXPENSES				321.85	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 8.B Summary of estimated costs and returns per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	6.29	70.0000	440.30	_____
TOTAL INCOME				440.30	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.25	1.0000	17.25	_____
FERTILIZERS	acre	115.61	1.0000	115.61	_____
FUNGICIDES	acre	14.77	1.0000	14.77	_____
HERBICIDES	acre	25.74	1.0000	25.74	_____
SEED/PLANTS	acre	28.80	1.0000	28.80	_____
ADJUVANTS	acre	4.19	1.0000	4.19	_____
CUSTOM FERTILIZE	acre	17.50	1.0000	17.50	_____
HAULING	acre	16.80	1.0000	16.80	_____
CUSTOM LIME	acre	22.00	1.0000	22.00	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	11.60	0.3670	4.26	_____
UNALLOCATED LABOR	hour	11.61	0.2936	3.41	_____
DIESEL FUEL	gal	3.40	3.7114	12.63	_____
REPAIR & MAINTENANCE	acre	6.72	1.0000	6.72	_____
INTEREST ON OP. CAP.	acre	6.79	1.0000	6.79	_____
TOTAL DIRECT EXPENSES				297.70	_____
RETURNS ABOVE DIRECT EXPENSES				142.60	_____
TOTAL FIXED EXPENSES				24.15	_____
TOTAL SPECIFIED EXPENSES				321.85	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				118.45	_____

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 8.C Estimated resource use for field operations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

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 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 8.D Estimated costs for field operations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Lime (Spread)	ton	22.00					0.78	22.78		22.78
Disk Harrow	24'		2.44	1.10	1.71		0.19	5.44	3.82	9.26
Spin Spreader	5 ton		1.25	0.45	1.26		0.10	3.06	1.69	4.75
DAP	cwt	32.46					1.15	33.61		33.61
Potash (60% K2O)	cwt	21.89					0.78	22.67		22.67
Field Cultivate Fld	32'		1.39	0.58	0.97		0.10	3.04	2.90	5.94
Grain Drill	20'		2.81	1.43	2.82		0.23	7.29	4.55	11.84
Wheat Seed Private	lb	28.80					0.92	29.72		29.72
App by Air (5 gal)	appl	5.75					0.16	5.91		5.91
Osprey	oz	14.49					0.41	14.90		14.90
Surfactant	pt	3.93					0.11	4.04		4.04
App Fert by Air	cwt	8.75					0.15	8.90		8.90
Fert 41-0-0-4	cwt	30.63					0.54	31.17		31.17
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Harmony Extra SG	oz	11.25					0.20	11.45		11.45
Surfactant	pt	0.26						0.26		0.26
App Fert by Air	cwt	8.75					0.12	8.87		8.87
Fert 41-0-0-4	cwt	30.63					0.43	31.06		31.06
App by Air (5 gal)	appl	5.75					0.06	5.81		5.81
Quilt	pt	14.77					0.16	14.93		14.93
Header Wheat/Sorghum	25' Rigid		4.74	3.16	2.14		0.04	10.08	11.19	21.27
Haul Wheat/Field	bu	16.80					0.06	16.86		16.86
TOTALS		262.66	12.63	6.72	8.90	0.00	6.79	297.70	24.15	321.85

Note: Cost of production estimates are based on 2011 input prices.
Fertilization decisions should be based on soil tests.

Table 8.E Estimated monthly income and expense flows per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

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	440.30
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.75	0.00	0.00	5.75	0.00	5.75	0.00	0.00
FERTILIZERS	0.00	0.00	54.35	0.00	0.00	0.00	0.00	30.63	30.63	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	14.77	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	14.49	0.00	0.00	11.25	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	3.93	0.00	0.00	0.26	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	16.80
CUSTOM LIME	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	3.94	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	5.08	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74
REPAIR & MAINTENANCE	0.00	0.00	2.13	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	0.00	0.00	3.10	1.15	0.68	0.00	0.00	0.99	0.55	0.22	0.00	0.10
TOTAL DIRECT EXPENSES	0.00	0.00	90.60	37.01	24.85	0.00	0.00	57.63	39.93	20.74	0.00	26.94
NET INCOME	0.00	0.00	-90.60	-37.01	-24.85	0.00	0.00	-57.63	-39.93	-20.74	0.00	413.36
NET INCOME TO DATE	0.00	0.00	-90.60	-127.61	-152.46	-152.46	-152.46	-210.09	-250.02	-270.76	-270.76	142.60

Note: Cost of production estimates are based on 2011 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
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Wheat			4.71	5.03	5.34	5.66	5.97	6.29	6.60	6.91	7.23	7.54	7.86
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-124	-113	-102	-91	-80	-69	-58	-47	-36	-25	-14
			-148	-137	-126	-115	-104	-93	-82	-71	-60	-49	-38
60	42.00	bu	-92	-79	-66	-53	-39	-26	-13	-0	12	26	39
			-116	-103	-90	-77	-64	-50	-37	-24	-11	1	15
70	49.00	bu	-61	-46	-30	-15	0	15	30	46	61	77	92
			-85	-70	-54	-39	-23	-8	6	22	37	53	68
80	56.00	bu	-30	-12	5	22	40	57	75	93	110	128	145
			-54	-36	-19	-1	16	33	51	68	86	104	121
90	63.00	bu	1	21	40	60	80	100	120	139	159	179	199
			-22	-3	16	36	56	76	95	115	135	155	175
100	70.00	bu	32	54	76	98	120	142	164	186	208	230	252
			8	30	52	74	96	118	140	162	184	206	228
110	77.00	bu	63	88	112	136	160	184	209	233	257	281	306
			39	63	88	112	136	160	185	209	233	257	281
120	84.00	bu	95	121	148	174	200	227	253	280	306	332	359
			71	97	123	150	176	203	229	255	282	308	335
130	91.00	bu	126	155	183	212	241	269	298	326	355	384	412
			102	131	159	188	216	245	274	302	331	359	388
140	98.00	bu	157	188	219	250	281	311	342	373	404	435	466
			133	164	195	226	257	287	318	349	380	411	441
150	105.00	bu	189	222	255	288	321	354	387	420	453	486	519
			165	198	231	264	297	330	363	396	429	462	495

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 2011 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, 2012

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	241,000	300	8	13.64	11.60	46.37	25.10	83.08	100.53	183.61
Combine (300-349 hp)	325 hp	269,000	300	8	16.73	11.60	56.88	28.02	96.50	112.22	208.72
Combine (350-399 hp)	355 hp	288,000	300	8	18.27	11.60	62.11	30.00	103.71	120.14	223.86
Combine (400-449 hp)	425 hp	321,000	300	8	21.87	11.60	74.37	33.43	119.41	133.91	253.32
Combine (450-499hp)	475 hp	342,000	300	8	24.44	11.60	83.12	35.62	130.35	142.67	273.02
Cotton Stripper	173 hp	157,000	200	8	8.08	11.60	27.47	24.53	63.60	98.24	161.84
Tractor(20-39hp)CB	MFWD 30	24,700	600	8	1.54	11.60	5.24	0.77	17.62	4.72	22.34
Tractor(20-39hp)RB	MFWD 30	19,000	600	8	1.54	11.60	5.24	0.59	17.44	3.63	21.07
Tractor(40-59hp)CB	2WD 50	31,500	600	8	2.57	11.60	8.75	0.98	21.33	6.02	27.36
Tractor(40-59hp)CB	MFWD 50	32,900	600	8	2.57	11.60	8.75	1.02	21.37	6.29	27.67
Tractor(40-59hp)RB	2WD 50	25,500	600	8	2.57	11.60	8.75	0.79	21.14	4.87	26.02
Tractor(40-59hp)RB	MFWD 50	30,100	600	8	2.57	11.60	8.75	0.94	21.29	5.75	27.04
Tractor(60-89hp)CB	2WD 75	42,100	600	8	3.86	11.60	13.12	1.31	26.04	8.05	34.09
Tractor(60-89hp)CB	MFWD 75	46,600	600	8	3.86	11.60	13.12	1.45	26.18	8.91	35.09
Tractor(60-89hp)RB	2WD 75	35,600	600	8	3.86	11.60	13.12	1.11	25.83	6.80	32.64
Tractor(60-89hp)RB	MFWD 75	39,300	600	8	3.86	11.60	13.12	1.22	25.95	7.51	33.47
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	11.60	18.37	2.04	32.01	12.49	44.50
Tractor(90-119hp)CB	MFWD 105	69,600	600	8	5.40	11.60	18.37	2.17	32.15	13.31	45.46
Tractor(90-119hp)RB	2WD 105	52,700	600	8	5.40	11.60	18.37	1.64	31.62	10.08	41.70
Tractor(90-119hp)RB	MFWD 105	55,500	600	8	5.40	11.60	18.37	1.73	31.71	10.61	42.32
Tractor(120-139hp)CB	2WD 130	97,500	600	8	6.69	11.60	22.75	3.04	37.39	18.65	56.04
Tractor(120-139hp)CB	MFWD 130	98,000	600	8	6.69	11.60	22.75	3.06	37.41	18.74	56.15
Tractor(140-159hp)CB	2WD 150	113,000	600	8	7.72	11.60	26.25	3.53	41.38	21.61	62.99
Tractor(140-159hp)CB	MFWD 150	122,000	600	8	7.72	11.60	26.25	3.81	41.66	23.33	65.00
Tractor(160-179hp)CB	2WD 170	119,000	600	8	8.75	11.60	29.75	3.71	45.06	23.79	68.86
Tractor(160-179hp)CB	MFWD 170	135,000	600	8	8.75	11.60	29.75	4.21	45.56	26.99	72.56
Tractor(180-199hp)CB	MFWD 190	143,000	600	8	9.77	11.60	33.25	4.46	49.32	28.59	77.91
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	11.60	39.37	5.96	56.94	38.18	95.13
Tractor(200-249hp)CB	Track 225	212,000	600	8	11.58	11.60	39.37	6.62	57.60	42.38	99.98
Tractor(250-349hp)CB	4WD 300	211,000	600	8	15.44	11.60	52.50	6.59	70.69	42.18	112.88
Tractor(250-349hp)CB	MFWD 300	246,000	600	8	15.44	11.60	52.50	7.68	71.78	49.18	120.97
Tractor(250-349hp)CB	Track 300	225,000	600	8	15.44	11.60	52.50	7.03	71.13	44.98	116.11
Tractor(350-449hp)CB	4WD 400	245,000	600	8	20.58	11.60	70.00	7.65	89.25	48.98	138.24
Tractor(350-449hp)CB	Track 400	305,000	600	8	20.58	11.60	70.00	9.53	91.13	60.98	152.11
Tractor(450-550hp)CB	4WD 500	294,000	600	8	25.73	11.60	87.50	9.18	108.28	58.78	167.07
Tractor(450-550hp)CB	Track 500	347,000	600	8	25.73	11.60	87.50	10.84	109.94	69.37	179.32
Utility Vehicle	500 CC	6,500	200	8	0.40	11.60	1.40	1.01	14.01	4.06	18.08
Utility Vehicle	800 CC	7,600	200	8	0.70	11.60	2.45	1.18	15.23	4.75	19.99
Utility Vehicle-mule	600 CC	9,800	200	8	0.50	11.60	1.75	1.53	14.88	6.13	21.01

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, 2012

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	75,218	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30(350)	350,000	200	8	18.01	0.327	6.76	20.05	17.90	44.71	71.70	116.42
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.32	11.50	10.75	27.58	43.06	70.65
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	5.32	15.78	14.13	35.25	56.61	91.87
Cotton Picker	4R2x1(350)	274,000	200	8	18.01	0.172	3.55	10.55	7.37	21.49	29.54	51.03
Cotton Picker	6R-30(355)	429,000	200	8	18.27	0.218	4.50	13.55	14.62	32.69	58.58	91.28
Cotton Picker	6R-38(355)	429,000	200	8	18.27	0.172	3.55	10.70	11.55	25.81	46.25	72.07
Cotton Picker/Module	4R-38(365)	470,000	200	8	18.78	0.257	5.32	16.46	18.93	40.72	75.81	116.53
Cotton Picker/Module	6R-30(365)	521,000	200	8	18.78	0.218	4.50	13.94	17.76	36.21	71.15	107.37
Cotton Picker/Module	6R-30(500)	600,000	200	8	25.73	0.218	4.50	19.09	20.46	44.06	81.94	126.01
Cotton Picker/Module	6R-38(365)	523,000	200	8	18.78	0.172	3.55	11.00	14.08	28.64	56.39	85.03
Cotton Picker/Module	6R-38(500)	601,000	200	8	25.73	0.172	3.55	15.07	16.18	34.81	64.80	99.62
Dry Applicator SP	70'300cuft	282,000	350	8	16.98	0.015	0.24	0.87	0.22	1.34	1.52	2.86
Sprayer 110Gal	30' 50hp	40,300	350	8	2.41	0.035	0.56	0.29	0.07	0.93	0.50	1.44
Sprayer 300-450gal	60' 125hp	98,100	350	8	5.66	0.017	0.28	0.33	0.09	0.71	0.61	1.33
Sprayer 300-450gal	80' 125hp	102,000	350	8	6.43	0.013	0.21	0.28	0.07	0.57	0.48	1.05
Sprayer 600-750gal	60' 175hp	154,000	350	8	9.00	0.017	0.28	0.53	0.14	0.96	0.97	1.94
Sprayer 600-825gal	80' 175hp	154,000	350	8	11.81	0.013	0.21	0.53	0.10	0.85	0.72	1.58
Sprayer 600-825gal	90' 250hp	223,000	350	8	12.73	0.011	0.18	0.50	0.14	0.83	0.93	1.77
Sprayer 800gal	100' 250hp	224,000	350	8	14.15	0.010	0.17	0.50	0.12	0.80	0.84	1.65
Sprayer 800gal	80' 250hp	213,000	350	8	12.86	0.013	0.21	0.57	0.15	0.94	1.00	1.94
Sprayer 1000-1400gal	90' 275hp	256,000	350	8	14.15	0.010	0.17	0.50	0.14	0.82	0.96	1.79
Sprayer 1000gal	100' 300hp	257,000	350	8	15.44	0.010	0.17	0.55	0.14	0.87	0.97	1.84
Sprayer 1200+gal	120' 300hp	266,000	350	8	15.44	0.008	0.14	0.46	0.12	0.73	0.83	1.56
Utility Vehicle	20'	11,100	200	8	0.50	0.052	0.85	0.09	0.09	1.03	0.36	1.40
Utility Vehicle	75"ropewic	7,100	200	8	0.40	0.170	2.75	0.23	0.18	3.17	0.75	3.93

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, 2012

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Bed-Disk (Hipper)	4R-38	MFWD 150	7,970	160	10	0.147	1.71	3.87	0.29	0.56	6.44	0.79	3.44	10.68
Bed-Disk (Hipper)	6R-30	MFWD 170	10,904	160	10	0.125	1.45	3.71	0.34	0.52	6.03	0.91	3.37	10.32
Bed-Disk (Hipper)	6R-38	MFWD 170	12,600	160	10	0.098	1.14	2.93	0.31	0.41	4.80	0.83	2.66	8.30
Bed-Disk (Hipper)	8R-30	MFWD 190	14,400	160	10	0.093	1.08	3.11	0.33	0.41	4.96	0.90	2.68	8.54
Bed-Disk (Hipper)	8R-38 2x1	MFWD 190	27,700	160	10	0.049	0.57	1.64	0.34	0.22	2.77	0.91	1.41	5.10
Bed-Disk (Hipper)	10R-30	MFWD 225	22,900	160	10	0.075	0.87	2.95	0.42	0.44	4.70	1.15	2.86	8.71
Bed-Disk (Hipper)	10R-38	MFWD 225	23,700	160	10	0.059	0.68	2.32	0.35	0.35	3.71	0.94	2.25	6.91
Bed-Disk (Hipper)	12R-30	MFWD 225	27,300	160	10	0.062	0.72	2.46	0.42	0.37	3.98	1.14	2.38	7.51
Bed-Disk (Hipper)	12R-38	MFWD 225	27,700	160	10	0.049	0.57	1.94	0.34	0.29	3.15	0.91	1.88	5.95
Bed-Disk (Hipper)Fl	8R-38	MFWD 190	17,700	160	10	0.074	0.85	2.46	0.32	0.33	3.98	0.88	2.11	6.98
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	15,100	160	10	0.074	0.85	2.46	0.27	0.33	3.93	0.75	2.11	6.80
Bed-Disk w/roller	8R-30	MFWD 190	20,700	160	10	0.093	1.08	3.11	0.48	0.41	5.10	1.30	2.68	9.09
Bed-Disk w/roller	12R-30	MFWD 225	34,500	160	10	0.062	0.72	2.46	0.53	0.37	4.09	1.44	2.38	7.93
Bed-Disk w/roller	8R-38	MFWD 190	23,100	160	10	0.074	0.85	2.46	0.42	0.33	4.08	1.15	2.11	7.35
Bed-Middle Buster	4R-38	MFWD 150	10,600	160	8	0.228	2.64	5.99	0.56	0.87	10.08	1.81	5.32	17.22
Bed-Middle Buster	6R-38	MFWD 150	12,700	160	8	0.120	1.39	3.15	0.35	0.45	5.36	1.14	2.80	9.31
Bed-Middle Buster	8R-30	MFWD 190	20,600	160	8	0.114	1.32	3.79	0.55	0.51	6.18	1.76	3.26	11.21
Bed-Middle Buster	8R-38	MFWD 190	18,000	160	8	0.090	1.04	3.00	0.38	0.40	4.83	1.21	2.58	8.63
Bed-Middle Buster	8R-38 2x1	MFWD 190	28,900	160	8	0.060	0.69	1.99	0.40	0.26	3.37	1.30	1.71	6.39
Bed-Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.05	3.59	0.62	0.54	5.82	2.00	3.48	11.32
Bed-Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.83	2.83	0.54	0.42	4.64	1.73	2.75	9.12
Bed-Middle Buster	12R-38	MFWD 225	28,900	160	8	0.060	0.69	2.36	0.40	0.35	3.82	1.30	2.29	7.42
Bed-Paratill Fold	8R-38	MFWD 225	54,000	150	12	0.080	0.93	3.18	1.57	0.48	6.17	2.78	3.08	12.04
Bed-Paratill Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.62	2.11	1.34	0.32	4.40	2.37	2.05	8.83
Bed-Paratill Fold	10R-30	MFWD 225	32,100	150	12	0.081	0.94	3.21	0.94	0.48	5.60	1.67	3.12	10.39
Bed-Paratill Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.62	2.11	1.34	0.32	4.40	2.37	2.05	8.83
Bed-Paratill Rigid	4R-30	MFWD 225	14,300	150	12	0.204	2.37	8.04	1.05	1.21	12.69	1.86	7.80	22.36
Bed-Paratill Rigid	4R-38	MFWD 225	13,200	150	12	0.160	1.86	6.33	0.76	0.96	9.92	1.35	6.14	17.42
Bed-Paratill Rigid	6R-30	MFWD 225	19,000	150	12	0.136	1.58	5.36	0.93	0.81	8.69	1.65	5.20	15.54
Bed-Paratill Rigid	6R-38	MFWD 225	18,400	150	12	0.107	1.24	4.23	0.71	0.64	6.83	1.26	4.10	12.20
Bed-Paratill Rigid	8R-30	MFWD 225	24,300	150	12	0.102	1.18	4.02	0.89	0.60	6.71	1.58	3.90	12.20
Bed-Paratill Rigid	8R-38	MFWD 225	24,800	150	12	0.080	0.93	3.18	0.72	0.48	5.32	1.27	3.08	9.68
Bed-Paratill Rigid	10R-30	MFWD 225	24,400	150	12	0.081	0.94	3.21	0.72	0.48	5.37	1.27	3.12	9.76
Bed-Paratill w/rol	4R-30	MFWD 225	16,400	150	12	0.204	2.37	8.04	1.21	1.21	12.84	2.14	7.80	22.78
Bed-Paratill w/rol	4R-38	MFWD 225	16,400	150	12	0.160	1.86	6.33	0.95	0.96	10.11	1.68	6.14	17.94
Bed-Paratill w/rol	6R-38	MFWD 225	22,200	150	12	0.107	1.24	4.23	0.86	0.64	6.98	1.52	4.10	12.61
Bed-Rip/Disk Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.84	2.42	0.11	0.32	3.71	0.53	2.08	6.34
Bed-Rip/Disk Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.71	2.42	0.14	0.36	3.64	0.68	2.35	6.68
Bed-Rip/Disk Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.53	1.81	0.10	0.27	2.73	0.51	1.76	5.01
Bed-Rip/Disk Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.14	6.14	0.11	0.82	9.23	0.58	5.28	15.10
Bed-Rip/Disk Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.70	4.87	0.09	0.65	7.33	0.46	4.19	11.98
Bed-Rip/Disk Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.12	3.23	0.09	0.43	4.89	0.46	2.78	8.14
Bed-Rip/Disk Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.61	4.62	0.17	0.62	7.03	0.85	3.97	11.86
Bed-Rip/Disk Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.84	2.42	0.09	0.32	3.69	0.45	2.08	6.23
Bed-Rip/Disk Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.42	4.09	0.12	0.55	6.20	0.59	3.52	10.31
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	18,700	150	12	0.107	1.24	4.23	0.72	0.64	6.85	1.28	4.10	12.24
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	22,400	150	12	0.080	0.93	3.18	0.65	0.48	5.25	1.15	3.08	9.49
Bed-Roll-Fold.	8R-38	MFWD 190	23,800	160	10	0.074	0.85	2.46	0.44	0.33	4.09	1.18	2.11	7.40
Bed-Roll-Fold.	12R-30	MFWD 225	25,600	160	10	0.062	0.72	2.46	0.40	0.37	3.95	1.07	2.38	7.42
Bed-Roll-Fold.	12R-38	MFWD 225	27,900	160	10	0.049	0.57	1.94	0.34	0.29	3.15	0.92	1.88	5.96
Bed-Roll-Fold.	16R-30	MFWD 225	29,100	160	10	0.046	0.54	1.84	0.34	0.27	3.01	0.91	1.79	5.71
Bed-Roll-Rigid	8R-38	MFWD 190	17,500	160	10	0.074	0.85	2.46	0.32	0.33	3.97	0.87	2.11	6.96
Blade-Box	6'-7'	2WD 130	1,020	200	20	0.020	0.23	0.45	0.00	0.06	0.75	0.00	0.37	1.13
Boll Buggy	4R-30(325)	MFWD 190	24,300	200	10	0.327	3.79	10.88	1.98	1.46	18.13	4.11	9.36	31.61
Boll Buggy	4R-38(255)	MFWD 190	24,300	200	10	0.257	2.99	8.57	1.56	1.15	14.27	3.24	7.37	24.89
Boll Buggy	4R-38(325)	MFWD 190	24,300	200	10	0.257	2.99	8.57	1.56	1.15	14.27	3.24	7.37	24.89
Boll Buggy	4R2x1(350)	MFWD 190	24,300	200	10	0.172	1.99	5.72	1.04	0.77	9.54	2.16	4.92	16.64
Boll Buggy	6R-30(325)	MFWD 190	24,300	200	10	0.218	2.53	7.25	1.32	0.97	12.08	2.74	6.24	21.07
Boll Buggy	6R-38(330)	MFWD 190	24,300	200	10	0.172	1.99	5.72	1.04	0.77	9.54	2.16	4.92	16.64
Boll Buggy-Stripper	13' Bcast	MFWD 150	24,300	200	10	0.251	2.92	6.61	1.52	0.96	12.02	3.16	5.87	21.06
Boll Buggy-Stripper	16' Bcast	MFWD 150	24,300	200	10	0.204	2.37	5.37	1.24	0.78	9.76	2.57	4.77	17.11
Boll Buggy-Stripper	19' Bcast	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	24,300	200	10	0.218	2.53	5.72	1.32	0.83	10.41	2.74	5.09	18.25
Boll Buggy-Stripper	4R-36	MFWD 150	24,300	200	10	0.272	3.16	7.16	1.65	1.04	13.02	3.43	6.36	22.82
Boll Buggy-Stripper	4R-38	MFWD 150	24,300	200	10	0.257	2.99	6.76	1.56	0.98	12.30	3.24	6.01	21.56
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	5R-30	MFWD 150	24,300	200	10	0.261	3.03	6.87	1.59	0.99	12.50	3.29	6.11	21.91
Boll Buggy-Stripper	5R-38	MFWD 150	24,300	200	10	0.207	2.40	5.43	1.25	0.78	9.89	2.60	4.83	17.33
Boll Buggy-Stripper	6R-30	MFWD 150	24,300	200	10	0.218	2.53	5.72	1.32	0.83	10.41	2.74	5.09	18.25
Boll Buggy-Stripper	6R-38	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	8R-30	MFWD 150	24,300	200	10	0.163	1.89	4.29	0.99	0.62	7.81	2.05	3.82	13.69
Boll Buggy-Stripper	8R-36/38	MFWD 150	24,300	200	10	0.129	1.50	3.39	0.78	0.49	6.17	1.62	3.01	10.82
Chisel Plow-Folding	16'	2WD 130	21,300	150	12	0.115	1.34	2.62	0.88	0.35	5.21	1.57	2.15	8.93
Chisel Plow-Folding	24'	MFWD 190	31,000	150	12	0.076	0.88	2.54	0.85	0.34	4.62	1.51	2.18	8.32
Chisel Plow-Folding	32'	MFWD 225	34,200	150	12	0.057	0.67	2.27	0.71	0.34	4.00	1.26	2.20	7.47
Chisel Plow-Folding	42'	MFWD 225	40,800	150	12	0.044	0.51	1.73	0.64	0.26	3.15	1.14	1.68	5.98

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Chisel Plow-Folding	50'	MFWD 225	65,000	150	10	0.036	0.42	1.45	1.04	0.22	3.14	1.72	1.41	6.28
Chisel Plow-Folding	61'	MFWD 225	71,600	150	12	0.030	0.35	1.19	0.78	0.18	2.50	1.38	1.15	5.05
Chisel Plow-Rigid	10'	MFWD 170	8,030	150	12	0.184	2.14	5.50	0.53	0.77	8.96	0.94	4.98	14.89
Chisel Plow-Rigid	15'	2WD 130	8,280	150	12	0.123	1.42	2.80	0.36	0.37	4.97	0.65	2.29	7.92
Chisel Plow-Rigid	20'	MFWD 225	9,210	150	12	0.102	1.19	4.04	0.34	0.61	6.19	0.60	3.92	10.71
Chisel Plow-Rigid	24'	MFWD 190	10,800	150	12	0.077	0.89	2.56	0.30	0.34	4.09	0.53	2.20	6.83
Chisel-Harrow	21 shank	2WD 190	11,900	150	12	0.088	1.02	2.92	0.37	0.30	4.62	0.66	1.93	7.23
Chisel-Harrow	27 shank	MFWD 225	13,400	150	12	0.068	0.79	2.69	0.33	0.40	4.23	0.58	2.61	7.43
Coulter-Chisel-Harro	21 shank	2WD 190	18,600	150	12	0.088	1.02	2.92	0.59	0.30	4.84	1.04	1.93	7.82
Coulter-Chisel-Harro	27 shank	MFWD 225	23,200	150	12	0.068	0.79	2.69	0.57	0.40	4.47	1.01	2.61	8.10
Cult & PD Ridge Till	8R-30	2WD 150	28,000	200	12	0.110	1.77	2.88	1.47	0.38	6.52	1.52	2.37	10.42
Cult & PD Ridge Till	12R-30	2WD 190	40,400	200	12	0.073	1.18	2.43	1.41	0.25	5.29	1.46	1.61	8.37
Cultivate	4R-30	2WD 105	10,300	150	10	0.206	2.39	3.78	0.56	0.42	7.16	1.52	2.57	11.26
Cultivate	4R-38	2WD 105	10,400	150	10	0.162	1.88	2.98	0.45	0.26	5.58	1.21	1.63	8.43
Cultivate	6R-30	MFWD 150	14,900	150	10	0.137	1.59	3.60	0.54	0.52	6.27	1.46	3.20	10.95
Cultivate	6R-38	MFWD 150	15,800	150	10	0.108	1.25	2.84	0.45	0.41	4.97	1.22	2.53	8.74
Cultivate	8R-30	MFWD 190	19,000	150	10	0.103	1.19	3.42	0.52	0.46	5.60	1.40	2.94	9.96
Cultivate	8R-38	MFWD 190	20,400	150	10	0.073	0.85	2.44	0.40	0.32	4.03	1.07	2.10	7.21
Cultivate	8R-38 2x1	MFWD 190	29,000	150	10	0.054	0.62	1.80	0.41	0.24	3.09	1.12	1.55	5.77
Cultivate	10R-30	MFWD 225	26,100	150	10	0.082	0.95	3.24	0.57	0.49	5.27	1.54	3.15	9.96
Cultivate	12R-30	MFWD 225	35,600	150	10	0.068	0.79	2.70	0.65	0.41	4.56	1.75	2.62	8.94
Cultivate	12R-38	MFWD 225	34,600	150	10	0.054	0.62	2.13	0.50	0.32	3.59	1.34	2.07	7.01
Cultivate	16R-30	MFWD 225	41,100	150	10	0.051	0.59	2.03	0.56	0.30	3.50	1.51	1.96	6.98
Cultivate & Post	4R-30	2WD 105	15,400	150	10	0.220	3.54	4.04	0.90	0.36	8.85	2.42	2.21	13.50
Cultivate & Post	4R-38	2WD 105	15,500	150	10	0.173	2.79	3.18	0.71	0.28	6.97	1.92	1.74	10.64
Cultivate & Post	6R-30	MFWD 150	20,000	150	10	0.146	2.36	3.85	0.78	0.55	7.55	2.10	3.42	13.08
Cultivate & Post	6R-38	MFWD 150	20,900	150	10	0.115	1.86	3.03	0.64	0.44	5.99	1.73	2.70	10.43
Cultivate & Post	8R-30	MFWD 190	24,100	150	10	0.110	1.77	3.65	0.70	0.49	6.63	1.90	3.14	11.67
Cultivate & Post	8R-38	MFWD 190	25,500	150	10	0.086	1.40	2.89	0.59	0.38	5.27	1.58	2.48	9.34
Cultivate & Post	8R-38 2x1	MFWD 190	34,100	150	10	0.057	0.93	1.92	0.52	0.25	3.64	1.41	1.65	6.71
Cultivate & Post	10R-30	MFWD 225	31,200	150	10	0.088	1.41	3.46	0.73	0.52	6.14	1.96	3.36	11.47
Cultivate & Post	12R-30	MFWD 225	40,700	150	10	0.073	1.18	2.88	0.79	0.43	5.30	2.13	2.80	10.24
Cultivate & Post	12R-38	MFWD 225	39,700	150	10	0.057	0.93	2.27	0.61	0.34	4.17	1.64	2.21	8.02
Cultivate & Post	16R-30	MFWD 225	46,200	150	10	0.055	0.88	2.16	0.67	0.32	4.05	1.82	2.10	7.98
Cultivate Ridge Till	8R-30	2WD 170	22,900	200	12	0.103	1.19	3.06	1.13	0.38	5.77	1.16	2.45	9.40
Cultivate Ridge Till	12R-30	2WD 190	35,300	200	12	0.068	0.79	2.28	1.16	0.23	4.48	1.20	1.51	7.19
Disk & Incorporate	14'	2WD 130	26,200	200	10	0.149	2.41	3.40	1.17	0.45	7.45	2.10	2.79	12.35
Disk & Incorporate	24'	MFWD 190	38,100	200	10	0.087	1.40	2.90	0.99	0.39	5.69	1.78	2.49	9.98
Disk & Incorporate	28'	MFWD 225	44,200	200	10	0.074	1.20	2.94	0.99	0.44	5.59	1.77	2.85	10.22
Disk & Incorporate	32'	MFWD 225	50,800	200	10	0.065	1.05	2.57	0.99	0.39	5.02	1.78	2.50	9.31
Disk Harrow	14'	2WD 130	21,100	180	10	0.140	1.62	3.19	0.82	0.42	6.06	1.76	2.61	10.45
Disk Harrow	20'	MFWD 190	29,700	180	10	0.098	1.13	3.26	0.81	0.43	5.65	1.74	2.80	10.20
Disk Harrow	24'	MFWD 190	33,000	180	10	0.081	0.94	2.72	0.75	0.36	4.78	1.61	2.34	8.74
Disk Harrow	28'	MFWD 225	39,100	180	10	0.070	0.81	2.76	0.76	0.41	4.75	1.63	2.67	9.07
Disk Harrow	32'	MFWD 225	45,700	180	10	0.061	0.71	2.41	0.77	0.36	4.27	1.67	2.34	8.29
Disk Harrow	42'	MFWD 225	88,200	180	10	0.046	0.54	1.84	1.14	0.27	3.80	2.46	1.78	8.05
Disk Harrow 40-100hp	14'	2WD 75	14,400	180	10	0.140	1.62	1.84	0.56	0.15	4.18	1.20	0.95	6.34
Disk Heavy	14'	MFWD 150	21,100	180	10	0.145	1.69	3.83	0.85	0.55	6.93	1.83	3.40	12.18
Disk Heavy	20'	MFWD 170	29,700	180	10	0.097	1.12	2.89	0.80	0.41	5.23	1.72	2.62	9.58
Disk Heavy	28'	MFWD 190	39,100	180	10	0.075	0.87	2.51	0.82	0.33	4.55	1.76	2.16	8.48
Disk Ripper	15'	MFWD 225	37,100	180	10	0.136	1.58	5.36	1.40	0.81	9.16	3.01	5.20	17.38
Ditcher		2WD 130	4,390	200	10	0.020	0.23	0.45	0.03	0.06	0.78	0.04	0.37	1.20
Ditcher (1m/160a)		2WD 130	4,390	200	10	0.009	0.10	0.21	0.01	0.02	0.36	0.02	0.17	0.56
Fert Appl (Liquid)	4R-38	MFWD 150	14,000	150	8	0.154	2.49	4.06	1.44	0.58	8.58	1.65	3.60	13.85
Fert Appl (Liquid)	6R-30	MFWD 170	16,900	150	8	0.130	2.11	3.89	1.47	0.55	8.03	1.69	3.53	13.26
Fert Appl (Liquid)	6R-38	MFWD 170	14,700	150	8	0.103	1.66	3.07	1.01	0.43	6.19	1.16	2.79	10.14
Fert Appl (Liquid)	8R-30	MFWD 190	15,400	150	8	0.098	1.58	3.26	1.00	0.43	6.29	1.15	2.80	10.26
Fert Appl (Liquid)	8R-38	MFWD 190	17,400	150	8	0.077	1.25	2.58	0.90	0.34	5.08	1.03	2.21	8.33
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	15,400	150	8	0.051	0.83	1.71	0.53	0.23	3.31	0.60	1.47	5.40
Fert Appl (Liquid)	10R-30	MFWD 225	16,000	150	8	0.078	1.26	3.09	0.83	0.46	5.66	0.96	3.00	9.63
Fert Appl (Liquid)	10R-38	MFWD 225	18,900	150	8	0.061	0.99	2.43	0.78	0.36	4.58	0.89	2.36	7.85
Fert Appl (Liquid)	12R-30	MFWD 225	18,500	150	8	0.078	1.26	3.09	0.96	0.46	5.79	1.11	3.00	9.91
Fert Appl (Liquid)	12R-38	MFWD 225	16,600	150	8	0.051	0.83	2.03	0.57	0.30	3.74	0.65	1.97	6.38
Field Cult & Inc	42'	MFWD 225	52,800	100	10	0.037	0.60	1.48	0.49	0.22	2.82	2.14	1.44	6.40
Field Cult & Inc	50'	MFWD 225	61,900	100	10	0.031	0.51	1.24	0.49	0.18	2.44	2.11	1.21	5.76
Field Cult & Inc Fld	24'	MFWD 170	28,600	100	10	0.066	1.06	1.96	0.47	0.27	3.78	2.03	1.78	7.60
Field Cult & Inc Fld	32'	MFWD 190	37,800	100	10	0.049	0.79	1.64	0.46	0.22	3.13	2.01	1.41	6.57
Field Cult & Inc Rdg	12'	2WD 150	15,400	100	10	0.132	2.13	3.47	0.50	0.46	6.57	2.18	2.85	11.62
Field Cultivate Fld	24'	MFWD 170	23,500	100	10	0.062	0.72	1.85	0.36	0.26	3.20	1.57	1.67	6.45
Field Cultivate Fld	32'	MFWD 190	32,700	100	10	0.046	0.54	1.55	0.38	0.20	2.68	1.64	1.33	5.65
Field Cultivate Fld	42'	MFWD 225	47,700	100	10	0.035	0.41	1.39	0.42	0.21	2.44	1.82	1.35	5.62
Field Cultivate Fld	50'	MFWD 225	56,800	100	10	0.029	0.34	1.17	0.42	0.17	2.12	1.82	1.14	5.08
Field Cultivate Rdg	12'	2WD 150	10,300	100	10	0.124	1.44	3.26	0.32	0.43	5.46	1.37	2.68	9.53
Grain Cart Corn	500 bu	MFWD 190	22,100	200	12	0.031	0.37	1.06	0.19	0.14	1.76	0.33	0.91	3.01
Grain Cart Corn	700 bu	MFWD 190	28,300	200	12	0.025	0.29	0.83	0.19	0.11	1.42	0.33	0.71	2.47
Grain Cart Corn	1000 bu	MFWD 225	40,500	200	12	0.025	0.29	0.98	0.27	0.14	1.69	0.48	0.95	3.13
Grain Cart Rice	500 bu	MFWD 190	22,100	200	12	0.062	0.72	2.07	0.37	0.27	3.45	0.66	1.78	5.90

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Grain Cart Rice	700 bu	MFWD 190	28,300	200	12	0.055	0.63	1.82	0.42	0.24	3.13	0.74	1.57	5.45
Grain Cart Rice	1000 bu	MFWD 190	40,500	200	12	0.045	0.53	1.52	0.50	0.20	2.76	0.88	1.31	4.96
Grain Cart Soybean	500 bu	MFWD 190	22,100	200	12	0.025	0.29	0.84	0.15	0.11	1.41	0.27	0.72	2.40
Grain Cart Soybean	700 bu	MFWD 190	28,300	200	12	0.021	0.24	0.70	0.16	0.09	1.21	0.28	0.60	2.10
Grain Cart Soybean	1000 bu	MFWD 190	40,500	200	12	0.021	0.24	0.70	0.23	0.09	1.28	0.41	0.60	2.30
Grain Cart Wht/Sor	500 bu	MFWD 190	22,100	200	12	0.025	0.29	0.84	0.15	0.11	1.41	0.27	0.72	2.40
Grain Cart Wht/Sor	700 bu	MFWD 190	28,300	200	12	0.021	0.24	0.70	0.16	0.09	1.21	0.28	0.60	2.10
Grain Cart Wht/Sor	1000 bu	MFWD 190	40,500	200	12	0.021	0.24	0.70	0.23	0.09	1.28	0.41	0.60	2.30
Grain Drill	8'	2WD 130	15,400	150	8	0.235	4.86	5.36	1.36	0.71	12.31	2.65	4.39	19.35
Grain Drill	10'	2WD 130	16,700	150	8	0.188	3.89	4.29	1.18	0.57	9.94	2.30	3.51	15.75
Grain Drill	12'	2WD 130	17,900	150	8	0.157	3.24	3.57	1.05	0.47	8.35	2.05	2.93	13.34
Grain Drill	15'	MFWD 150	21,800	150	8	0.125	2.59	3.30	1.02	0.47	7.40	2.00	2.93	12.33
Grain Drill	20'	MFWD 170	29,000	150	8	0.094	1.94	2.80	1.02	0.39	6.17	1.99	2.54	10.71
Grain Drill	24'	MFWD 190	50,800	150	8	0.078	1.62	2.61	1.49	0.35	6.08	2.91	2.24	11.24
Grain Drill	30'	MFWD 225	53,300	150	8	0.062	1.29	2.47	1.25	0.37	5.40	2.44	2.40	10.25
Grain Drill	35'	MFWD 225	69,900	150	8	0.053	1.11	2.12	1.41	0.32	4.96	2.75	2.05	9.77
Grain Drill & Pre	8'	2WD 130	20,600	150	8	0.253	5.24	5.77	1.96	0.77	13.75	3.82	4.73	22.30
Grain Drill & Pre	10'	2WD 130	21,800	150	8	0.203	4.19	4.62	1.66	0.61	11.09	3.23	3.78	18.11
Grain Drill & Pre	12'	2WD 130	23,000	150	8	0.169	3.49	3.85	1.45	0.51	9.32	2.84	3.15	15.32
Grain Drill & Pre	15'	MFWD 150	26,900	150	8	0.135	2.79	3.55	1.36	0.51	8.23	2.66	3.15	14.05
Grain Drill & Pre	20'	MFWD 170	34,100	150	8	0.101	2.09	3.02	1.29	0.42	6.84	2.52	2.74	12.11
Grain Drill & Pre	24'	MFWD 190	55,900	150	8	0.084	1.74	2.81	1.77	0.37	6.71	3.45	2.41	12.58
Grain Drill & Pre	30'	MFWD 225	58,400	150	8	0.067	1.39	2.66	1.48	0.40	5.95	2.88	2.58	11.42
Grain Drill & Pre	35'	MFWD 225	75,000	150	8	0.058	1.19	2.28	1.63	0.34	5.46	3.17	2.21	10.85
Grain Drill & Pre T	8R-38	MFWD 225	43,500	150	8	0.062	1.29	2.47	1.02	0.37	5.17	1.99	2.40	9.57
Harrow - Rigid	21'	2WD 150	4,990	200	10	0.073	0.85	1.94	0.12	0.26	3.18	0.19	1.59	4.98
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.12	3.22	0.16	0.43	4.95	0.26	2.77	7.99
Harrow - Folding	24'	MFWD 190	11,400	200	10	0.064	0.75	2.15	0.25	0.28	3.44	0.39	1.85	5.69
Harrow - Folding	30'	MFWD 190	11,900	200	10	0.051	0.60	1.72	0.21	0.23	2.76	0.33	1.47	4.57
Harrow - Folding	40'	MFWD 190	15,400	200	10	0.038	0.45	1.29	0.20	0.17	2.12	0.32	1.10	3.55
Harrow - Folding	48'	MFWD 225	18,100	200	10	0.032	0.37	1.27	0.20	0.19	2.04	0.31	1.23	3.59
Harrow - Rigid	13'	2WD 130	3,810	200	10	0.119	1.38	2.71	0.15	0.36	4.62	0.24	2.22	7.09
Header - Corn	6R-30	265 hp	39,300	300	8	0.170	1.97	7.89	1.67	4.27	15.81	2.56	17.11	35.49
Header - Corn	6R-38	265 hp	40,400	300	8	0.134	1.55	6.23	1.35	3.37	12.52	2.07	13.51	28.11
Header - Corn	8R-30	265 hp	50,700	300	8	0.127	1.48	5.92	1.61	3.20	12.22	2.47	12.83	27.54
Header - Corn	8R-38	325 hp	51,600	300	8	0.100	1.17	5.74	1.30	2.82	11.04	1.99	11.32	24.36
Header - Corn	12R-20	325 hp	66,800	300	8	0.127	1.48	7.26	2.13	3.57	14.45	3.26	14.33	32.05
Header - Corn	12R-30	325 hp	77,600	300	8	0.085	0.98	4.84	1.65	2.38	9.86	2.52	9.55	21.95
Header - Draper (CL)	25' Rigid	265 hp	49,500	300	8	0.203	2.35	9.41	2.30	5.09	19.17	3.67	20.41	43.26
Header - Draper (CL)	30' Rigid	325 hp	55,100	300	8	0.169	1.96	9.62	2.13	4.74	18.46	3.40	18.99	40.86
Header - Draper (CL)	36' Rigid	355 hp	59,500	300	8	0.141	1.63	8.76	1.92	4.23	16.55	3.06	16.94	36.55
Header - Draper (SL)	25' Rigid	325 hp	49,500	300	8	0.176	2.04	10.01	1.99	4.93	18.98	3.18	19.75	41.91
Header - Draper (SL)	30' Rigid	325 hp	55,100	300	8	0.146	1.70	8.34	1.85	4.10	16.00	2.95	16.45	35.41
Header - Draper (SL)	36' Rigid	355 hp	59,500	300	8	0.122	1.41	7.59	1.66	3.66	14.34	2.65	14.68	31.68
Header - Rice (CL)	25' Rigid	325 hp	50,400	300	8	0.253	2.94	14.43	3.19	7.11	27.69	4.89	28.48	61.07
Header - Rice (CL)	30' Rigid	325 hp	57,500	300	8	0.211	2.45	12.03	3.04	5.92	23.45	4.65	23.73	51.84
Header - Rice (SL)	25' Rigid	325 hp	50,400	300	8	0.220	2.55	12.51	2.77	6.16	24.00	4.24	24.68	52.93
Header - Rice (SL)	30' Rigid	325 hp	57,500	300	8	0.183	2.12	10.42	2.63	5.13	20.32	4.03	20.57	44.93
Header -RiceStrp(CL)	20'	265 hp	40,700	300	8	0.253	2.94	11.77	2.58	6.37	23.67	3.95	25.52	53.14
Header -RiceStrp(CL)	24'	325 hp	44,700	300	8	0.211	2.45	12.03	2.36	5.92	22.77	3.61	23.73	50.13
Header -RiceStrp(CL)	32'	325 hp	49,300	300	8	0.158	1.84	9.02	1.95	4.44	17.26	2.99	17.80	38.06
Header -RiceStrp(SL)	20'	265 hp	40,700	300	8	0.220	2.55	10.20	2.23	5.52	20.51	3.42	22.11	46.06
Header -RiceStrp(SL)	24'	325 hp	44,700	300	8	0.183	2.12	10.42	2.04	5.13	19.74	3.13	20.57	43.44
Header -RiceStrp(SL)	32'	325 hp	49,300	300	8	0.137	1.59	7.82	1.69	3.85	14.96	2.59	15.43	32.98
Header -Soybean	22' Flex	265 hp	25,100	300	8	0.116	1.34	5.38	0.72	2.91	10.37	1.11	11.67	23.16
Header -Soybean	25' Flex	325 hp	27,100	300	8	0.102	1.18	5.81	0.69	2.86	10.55	1.05	11.46	23.07
Header -Soybean	30' Flex	325 hp	30,700	300	8	0.085	0.98	4.84	0.65	2.38	8.86	0.99	9.55	19.42
Header -Soybean	35' Flex	355 hp	36,100	300	8	0.072	0.84	4.53	0.65	2.18	8.22	1.00	8.76	18.00
Header Wheat/Sorghum	22' Rigid	265 hp	19,300	300	8	0.116	1.34	5.38	0.56	2.91	10.20	0.85	11.67	22.73
Header Wheat/Sorghum	25' Rigid	325 hp	23,500	300	8	0.102	1.18	5.81	0.60	2.86	10.45	0.91	11.46	22.84
Header Wheat/Sorghum	30' Rigid	325 hp	26,300	300	8	0.085	0.98	4.84	0.55	2.38	8.77	0.85	9.55	19.18
Header-Cotton Bcast	13'	173 hp	19,800	200	8	0.251	5.20	6.91	0.93	6.17	19.23	2.86	24.74	46.83
Header-Cotton-Bcast	16'	173 hp	23,200	200	8	0.204	4.22	5.62	0.89	5.01	15.75	2.72	20.10	38.58
Header-Cotton-Bcast	19'	173 hp	25,000	200	8	0.172	3.55	4.73	0.80	4.22	13.32	2.47	16.92	32.72
Header-Cotton-Brush	4R-30 2x1	173 hp	30,100	200	8	0.218	4.50	5.99	1.23	5.35	17.09	3.76	21.44	42.30
Header-Cotton-Brush	4R-36	173 hp	29,800	200	8	0.272	5.63	7.49	1.52	6.69	21.34	4.66	26.80	52.81
Header-Cotton-Brush	4R-38	173 hp	29,700	200	8	0.257	5.32	7.08	1.43	6.32	20.16	4.39	25.32	49.88
Header-Cotton-Brush	4R-38 2x1	173 hp	31,500	200	8	0.172	3.55	4.73	1.01	4.22	13.53	3.11	16.92	33.58
Header-Cotton-Brush	5R-30	173 hp	37,400	200	8	0.261	5.41	7.19	1.83	6.42	20.86	5.62	25.73	52.21
Header-Cotton-Brush	5R-38	173 hp	38,800	200	8	0.207	4.28	5.69	1.50	5.08	16.56	4.61	20.35	41.53
Header-Cotton-Brush	6R-30	173 hp	46,100	200	8	0.218	4.50	5.99	1.88	5.35	17.74	5.77	21.44	44.96
Header-Cotton-Brush	6R-38	173 hp	47,500	200	8	0.172	3.55	4.73	1.53	4.22	14.05	4.69	16.92	35.68
Header-Cotton-Brush	8R-30	173 hp	63,600	200	8	0.163	3.38	4.49	1.95	4.01	13.84	5.97	16.08	35.90
Header-Cotton-Brush	8R-36/38	173 hp	65,000	200	8	0.129	2.67	3.55	1.57	3.17	10.97	4.82	12.71	28.51
Land Plane	50'x16'	MFWD 190	10,900	200	10	0.151	1.75	5.04	0.33	0.67	7.80	0.88	4.33	13.03
Levee Pull & Seed	8 Blade	MFWD 170	7,540	100	10	0.003	0.04	0.10	0.00	0.01	0.16	0.02	0.09	0.29
Levee Pull (1m/80a)	8 blade	MFWD 170	6,760	100	10	0.003	0.04	0.10	0.00	0.01	0.16	0.02	0.09	0.28
Levee Splitter (1/80	8 blade	MFWD 150	6,760	100	10	0.004	0.04	0.10	0.00	0.01	0.17	0.03	0.09	0.30
Module Builder	4R-30(325)	MFWD 190	30,500	200	10	0.327	6.76	10.88	2.49	1.46	21.60	5.17	9.36	36.14

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac				$/acre				
Module Builder	4R-38(255)	MFWD 190	30,500	200	10	0.257	5.32	8.57	1.96	1.15	17.01	4.07	7.37	28.45
Module Builder	4R-38(325)	MFWD 190	30,500	200	10	0.257	5.32	8.57	1.96	1.15	17.01	4.07	7.37	28.45
Module Builder	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder	6R-30(325)	MFWD 190	30,500	200	10	0.218	4.50	7.25	1.66	0.97	14.40	3.44	6.24	24.09
Module Builder	6R-38(330)	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder-Strip	13' Bcast	MFWD 150	30,500	200	10	0.251	5.20	6.61	1.92	0.96	14.69	3.97	5.87	24.54
Module Builder-Strip	16' Bcast	MFWD 150	30,500	200	10	0.204	4.22	5.37	1.56	0.78	11.93	3.23	4.77	19.94
Module Builder-Strip	19' Bcast	MFWD 150	30,500	200	10	0.172	3.55	4.52	1.31	0.65	10.05	2.72	4.02	16.79
Module Builder-Strip	4R-30 2x1	MFWD 150	30,500	200	10	0.218	4.50	5.72	1.66	0.83	12.73	3.44	5.09	21.27
Module Builder-Strip	4R-36	MFWD 150	30,500	200	10	0.272	5.63	7.16	2.08	1.04	15.91	4.30	6.36	26.59
Module Builder-Strip	4R-38	MFWD 150	30,500	200	10	0.257	5.32	6.76	1.96	0.98	15.04	4.07	6.01	25.12
Module Builder-Strip	4R-38 2x1	MFWD 150	30,500	200	10	0.172	3.55	4.52	1.31	0.65	10.05	2.72	4.02	16.79
Module Builder-Strip	5R-30	MFWD 150	30,500	200	10	0.261	5.41	6.87	1.99	0.99	15.28	4.13	6.11	25.53
Module Builder-Strip	5R-38	MFWD 150	30,500	200	10	0.207	4.28	5.43	1.57	0.78	12.08	3.27	4.83	20.19
Module Builder-Strip	6R-30	MFWD 150	30,500	200	10	0.218	4.50	5.72	1.66	0.83	12.73	3.44	5.09	21.27
Module Builder-Strip	6R-38	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder-Strip	8R-36/38	MFWD 190	30,500	200	10	0.129	2.67	4.30	0.98	0.57	8.54	2.04	3.69	14.28
NT Grain Drill	6'	MFWD 170	19,100	150	8	0.327	6.76	9.73	2.34	1.38	20.22	4.56	8.83	33.63
NT Grain Drill	10'	2WD 130	28,300	150	8	0.235	4.86	5.36	2.50	0.71	13.45	4.87	4.39	22.72
NT Grain Drill	12'	2WD 130	35,900	150	8	0.163	3.38	3.72	2.20	0.49	9.80	4.29	3.05	17.15
NT Grain Drill	15'	MFWD 150	40,100	150	8	0.130	2.70	3.43	1.96	0.49	8.61	3.83	3.05	15.50
NT Grain Drill	20'	MFWD 170	56,900	150	8	0.098	2.02	2.92	2.09	0.41	7.46	4.08	2.65	14.19
NT Grain Drill	24'	MFWD 190	75,400	150	8	0.081	1.69	2.72	2.31	0.36	7.09	4.50	2.34	13.94
NT Grain Drill	30'	MFWD 225	88,000	150	8	0.065	1.35	2.57	2.16	0.39	6.48	4.20	2.50	13.19
NT Grain Drill & Pre	6'	MFWD 170	24,200	150	8	0.352	7.28	10.48	3.19	1.48	22.45	6.23	9.51	38.20
NT Grain Drill & Pre	10'	2WD 130	33,500	150	8	0.211	4.37	4.81	2.65	0.64	12.48	5.17	3.94	21.60
NT Grain Drill & Pre	12'	2WD 130	41,000	150	8	0.176	3.64	4.01	2.71	0.53	10.89	5.28	3.28	19.46
NT Grain Drill & Pre	15'	MFWD 150	45,200	150	8	0.141	2.91	3.70	2.39	0.53	9.54	4.65	3.29	17.49
NT Grain Drill & Pre	20'	MFWD 170	62,100	150	8	0.105	2.18	3.14	2.46	0.44	8.24	4.79	2.85	15.89
NT Grain Drill & Pre	24'	MFWD 190	80,500	150	8	0.088	1.82	2.93	2.66	0.39	7.80	5.18	2.52	15.50
NT Grain Drill & Pre	30'	MFWD 225	93,100	150	8	0.070	1.45	2.77	2.46	0.42	7.11	4.79	2.69	14.60
NT Plant&Pre-Folding	8R-38	MFWD 170	44,300	150	8	0.083	1.72	2.48	1.38	0.35	5.95	2.70	2.25	10.91
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	70,600	150	8	0.055	1.15	1.65	1.47	0.23	4.51	2.87	1.50	8.88
NT Plant&Pre-Folding	12R-20	MFWD 190	67,800	150	8	0.105	2.18	3.51	2.68	0.47	8.86	5.23	3.02	17.12
NT Plant&Pre-Folding	12R-30	MFWD 190	70,600	150	8	0.070	1.45	2.34	1.86	0.31	5.98	3.63	2.01	11.63
NT Plant&Pre-Folding	12R-38	MFWD 190	70,600	150	8	0.055	1.15	1.85	1.47	0.24	4.72	2.87	1.59	9.18
NT Plant&Pre-Folding	16R-30	MFWD 190	92,900	150	8	0.052	1.09	1.75	1.84	0.23	4.92	3.58	1.51	10.03
NT Plant&Pre-Folding	23R-15	MFWD 190	117,000	150	8	0.073	1.51	2.44	3.22	0.32	7.51	6.27	2.10	15.88
NT Plant&Pre-Folding	24R-15	MFWD 225	126,000	150	8	0.070	1.45	2.77	3.33	0.42	7.98	6.49	2.69	17.16
NT Plant&Pre-Folding	24R-20	MFWD 190	134,000	150	8	0.052	1.09	1.75	2.65	0.23	5.74	5.17	1.51	12.43
NT Plant&Pre-Folding	24R-30	MFWD 190	152,000	150	8	0.035	0.72	1.17	2.00	0.15	4.06	3.91	1.00	8.99
NT Plant&Pre-Folding	31R-15	MFWD 225	143,000	150	8	0.054	1.12	2.15	2.93	0.32	6.53	5.71	2.08	14.33
NT Plant&Pre-Folding	32R-15	MFWD 225	158,000	150	8	0.052	1.09	2.08	3.13	0.31	6.62	6.10	2.01	14.74
NT Plant&Pre-Folding	36R-20	MFWD 225	167,000	150	8	0.035	0.72	1.38	2.20	0.21	4.53	4.30	1.34	10.18
NT Plant&Pre-Rigid	4R-30	2WD 130	25,600	150	8	0.211	4.37	4.81	2.03	0.64	11.85	3.95	3.94	19.76
NT Plant&Pre-Rigid	4R-38	2WD 130	27,100	150	8	0.166	3.44	3.78	1.69	0.50	9.43	3.29	3.10	15.83
NT Plant&Pre-Rigid	6R-30	MFWD 150	34,500	150	8	0.141	2.91	3.70	1.82	0.53	8.97	3.55	3.29	15.82
NT Plant&Pre-Rigid	6R-38	MFWD 150	32,000	150	8	0.111	2.30	2.92	1.33	0.42	6.98	2.60	2.59	12.18
NT Plant&Pre-Rigid	8R-30	MFWD 170	41,200	150	8	0.105	2.18	3.14	1.63	0.44	7.41	3.18	2.85	13.45
NT Plant&Pre-Rigid	8R-38	MFWD 170	37,500	150	8	0.083	1.72	2.48	1.17	0.35	5.74	2.29	2.25	10.29
NT Plant&Pre-Rigid	10R-30	MFWD 190	39,600	150	8	0.084	1.74	2.81	1.25	0.37	6.19	2.44	2.41	11.06
NT Plant&Pre-Rigid	11R-15	MFWD 170	46,600	150	8	0.143	2.97	4.28	2.51	0.60	10.37	4.89	3.88	19.15
NT Plant&Pre-Rigid	11R-20	MFWD 170	43,900	150	8	0.115	2.38	3.43	1.90	0.48	8.21	3.70	3.11	15.04
NT Plant&Pre-Rigid	12R-20	MFWD 190	50,400	150	8	0.105	2.18	3.51	1.99	0.47	8.17	3.89	3.02	15.09
NT Plant&Pre-Rigid	12R-30	MFWD 190	57,200	150	8	0.070	1.45	2.34	1.51	0.31	5.62	2.94	2.01	10.59
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	50,400	150	8	0.097	2.01	3.83	1.84	0.58	8.27	3.58	3.72	15.58
NT Plant&Pre-Rigid	15R-15	MFWD 190	59,600	150	8	0.113	2.33	3.76	2.52	0.50	9.13	4.92	3.23	17.29
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	108,000	150	8	0.055	1.15	2.19	2.25	0.33	5.92	4.39	2.12	12.44
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	87,900	150	8	0.083	1.72	3.29	2.75	0.49	8.27	5.36	3.19	16.83
NT Plant-Folding	8R-38	MFWD 170	39,300	150	8	0.077	1.60	2.30	1.14	0.32	5.38	2.22	2.09	9.71
NT Plant-Folding	8R-38 2x1	MFWD 170	64,000	150	8	0.051	1.06	1.53	1.24	0.21	4.06	2.41	1.39	7.87
NT Plant-Folding	12R-20	MFWD 190	62,800	150	8	0.098	2.02	3.26	2.31	0.43	8.04	4.50	2.80	15.36
NT Plant-Folding	12R-30	MFWD 190	65,600	150	8	0.065	1.35	2.17	1.61	0.29	5.43	3.13	1.87	10.44
NT Plant-Folding	12R-38	MFWD 190	64,000	150	8	0.051	1.06	1.71	1.24	0.23	4.25	2.41	1.47	8.15
NT Plant-Folding	16R-30	MFWD 190	86,400	150	8	0.049	1.01	1.63	1.59	0.21	4.45	3.09	1.40	8.96
NT Plant-Folding	23R-15	MFWD 190	112,000	150	8	0.068	1.40	2.26	2.86	0.30	6.84	5.58	1.94	14.37
NT Plant-Folding	24R-15	MFWD 225	121,000	150	8	0.065	1.35	2.57	2.97	0.39	7.29	5.78	2.50	15.58
NT Plant-Folding	24R-20	MFWD 190	127,000	150	8	0.049	1.01	1.63	2.33	0.21	5.20	4.55	1.40	11.16
NT Plant-Folding	24R-30	MFWD 190	143,000	150	8	0.032	0.67	1.08	1.75	0.14	3.66	3.42	0.93	8.02
NT Plant-Folding	31R-15	MFWD 225	134,000	150	8	0.050	1.04	1.99	2.55	0.30	5.90	4.96	1.93	12.80
NT Plant-Folding	32R-15	MFWD 225	148,000	150	8	0.049	1.01	1.93	2.72	0.29	5.96	5.30	1.87	13.15
NT Plant-Folding	36R-20	MFWD 225	158,000	150	8	0.032	0.67	1.28	1.93	0.19	4.10	3.77	1.25	9.13
NT Plant-Rigid	4R-30	2WD 130	20,600	150	8	0.196	4.05	4.46	1.51	0.59	10.64	2.95	3.66	17.26
NT Plant-Rigid	4R-38	2WD 130	22,100	150	8	0.154	3.19	3.51	1.28	0.47	8.46	2.49	2.88	13.84
NT Plant-Rigid	6R-30	MFWD 150	29,500	150	8	0.130	2.70	3.43	1.44	0.49	8.09	2.82	3.05	13.96
NT Plant-Rigid	6R-38	MFWD 150	27,000	150	8	0.103	2.13	2.71	1.04	0.39	6.29	2.03	2.41	10.74
NT Plant-Rigid	8R-30	MFWD 170	36,200	150	8	0.098	2.02	2.92	1.33	0.41	6.69	2.59	2.65	11.94
NT Plant-Rigid	8R-38	MFWD 170	32,500	150	8	0.077	1.60	2.30	0.94	0.32	5.18	1.84	2.09	9.12

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
NT Plant-Rigid	10R-30	MFWD 190	34,700	150	8	0.078	1.62	2.61	1.02	0.35	5.60	1.99	2.24	9.84
NT Plant-Rigid	11R-15	MFWD 170	41,600	150	8	0.133	2.76	3.97	2.08	0.56	9.38	4.06	3.60	17.05
NT Plant-Rigid	11R-20	MFWD 170	39,000	150	8	0.107	2.21	3.19	1.56	0.45	7.43	3.05	2.89	13.38
NT Plant-Rigid	12R-20	MFWD 190	45,400	150	8	0.098	2.02	3.26	1.67	0.43	7.40	3.25	2.80	13.47
NT Plant-Rigid	12R-30	MFWD 190	52,200	150	8	0.065	1.35	2.17	1.28	0.29	5.10	2.49	1.87	9.47
NT Plant-Rigid	13R-18/20	MFWD 225	45,400	150	8	0.090	1.87	3.58	1.54	0.54	7.55	3.01	3.47	14.03
NT Plant-Rigid	15R-15	MFWD 190	53,000	150	8	0.105	2.17	3.49	2.08	0.46	8.21	4.06	3.00	15.29
NT Plant-TwinRow	12R-30/40	MFWD 225	102,000	150	8	0.051	1.06	2.03	1.97	0.30	5.38	3.85	1.97	11.21
NT Plant-TwinRow	8R-30/40	MFWD 225	82,900	150	8	0.077	1.60	3.05	2.41	0.46	7.53	4.70	2.96	15.20
One-Trip Prep	4R-38	MFWD 170	20,000	150	10	0.146	1.70	4.36	1.36	0.61	8.05	2.10	3.96	14.11
One-Trip Prep	6R-38	MFWD 190	24,000	150	10	0.097	1.12	3.23	1.08	0.43	5.88	1.67	2.78	10.34
One-Trip Prep	8R-38	MFWD 225	35,700	150	10	0.073	0.85	2.91	1.23	0.44	5.44	1.89	2.82	10.15
Peanut Cond.& Lifter	6-Row	MFWD 190	11,000	300	20	0.100	1.16	3.32	0.18	0.44	5.11	0.27	2.85	8.25
Peanut Conditioner	6-Row	MFWD 190	12,000	300	20	0.100	1.16	3.32	0.24	0.44	5.17	0.26	2.85	8.30
Peanut Dig/Invertor	4R-30	MFWD 190	21,200	300	15	0.235	2.73	7.84	1.24	1.05	12.87	1.51	6.74	21.13
Peanut Dig/Invertor	4R-38	MFWD 190	21,200	300	15	0.186	2.16	6.19	0.98	0.83	10.16	1.19	5.32	16.69
Peanut Dig/Invertor	6R-38	MFWD 190	30,800	300	15	0.124	1.43	4.12	0.67	0.55	6.78	1.16	3.54	11.49
Peanut Dump Cart	6-Row	MFWD 190	37,400	300	20	0.310	3.59	10.30	0.67	1.38	15.96	2.82	8.86	27.65
Peanut Harvester	4R-30	MFWD 225	107,000	300	20	0.849	9.85	33.46	5.15	5.07	53.55	20.38	32.45	106.39
Peanut Harvester	4R-38	MFWD 225	107,000	300	20	0.934	10.84	36.80	5.66	5.57	58.88	23.39	35.68	117.96
Peanut Harvester	6R-38	MFWD 225	122,000	300	20	0.625	7.25	24.61	3.68	3.73	39.27	17.83	23.86	80.97
Peanut Lifter	6-Row	MFWD 225	4,140	300	20	0.100	1.16	3.93	0.08	0.59	5.78	0.09	3.81	9.69
Peanut Plt&Pre Fold.	12R-38	MFWD 190	64,200	150	8	0.080	1.66	2.67	1.93	0.35	6.63	3.77	2.29	12.70
Peanut Plt&Pre Rigid	8R-30	MFWD 190	37,000	150	8	0.152	3.15	5.08	2.11	0.68	11.03	4.12	4.36	19.53
Peanut Plt&Pre Rigid	8R-38	MFWD 190	33,300	150	8	0.120	2.49	4.01	1.50	0.53	8.55	2.93	3.45	14.94
Pipe Spool 160ac	1/4m roll	2WD 130	3,380	15	12	0.003	0.09	0.07	0.00	0.00	0.17	0.06	0.05	0.30
Pipe Trailer 1m/160a	30'	2WD 130	1,240	100	15	0.003	0.17	0.08	0.00	0.01	0.27	0.00	0.06	0.35
Plant & Pre-Folding	8R-38	MFWD 170	40,100	150	8	0.080	1.65	2.38	1.20	0.33	5.59	2.35	2.16	10.11
Plant & Pre-Folding	8R-38 2x1	MFWD 170	64,200	150	8	0.053	1.10	1.58	1.28	0.22	4.20	2.50	1.44	8.15
Plant & Pre-Folding	12R-20	MFWD 190	61,500	150	8	0.101	2.09	3.37	2.34	0.45	8.26	4.56	2.90	15.73
Plant & Pre-Folding	12R-30	MFWD 190	64,300	150	8	0.067	1.39	2.25	1.63	0.30	5.58	3.17	1.93	10.69
Plant & Pre-Folding	12R-38	MFWD 190	64,200	150	8	0.053	1.10	1.77	1.28	0.23	4.40	2.50	1.52	8.44
Plant & Pre-Folding	16R-30	MFWD 190	84,500	150	8	0.050	1.04	1.68	1.60	0.22	4.57	3.13	1.45	9.15
Plant & Pre-Folding	23R-15	MFWD 190	105,000	150	8	0.070	1.45	2.34	2.77	0.31	6.89	5.40	2.01	14.31
Plant & Pre-Folding	24R-15	MFWD 225	113,000	150	8	0.067	1.39	2.66	2.86	0.40	7.33	5.58	2.58	15.50
Plant & Pre-Folding	24R-20	MFWD 190	121,000	150	8	0.050	1.04	1.68	2.30	0.22	5.26	4.48	1.45	11.20
Plant & Pre-Folding	24R-30	MFWD 190	140,000	150	8	0.033	0.69	1.12	1.77	0.15	3.75	3.46	0.96	8.18
Plant & Pre-Folding	31R-15	MFWD 225	127,000	150	8	0.052	1.08	2.06	2.49	0.31	5.96	4.86	2.00	12.83
Plant & Pre-Folding	32R-15	MFWD 225	141,000	150	8	0.050	1.04	1.99	2.68	0.30	6.03	5.22	1.93	13.20
Plant & Pre-Folding	36R-20	MFWD 225	148,000	150	8	0.033	0.69	1.33	1.87	0.20	4.11	3.65	1.29	9.06
Plant & Pre-Rigid	4R-30	2WD 130	23,500	150	8	0.203	4.19	4.62	1.78	0.61	11.22	3.48	3.78	18.49
Plant & Pre-Rigid	4R-38	2WD 130	25,000	150	8	0.159	3.30	3.63	1.49	0.48	8.92	2.92	2.98	14.83
Plant & Pre-Rigid	6R-30	MFWD 150	32,400	150	8	0.135	2.79	3.55	1.64	0.51	8.51	3.20	3.15	14.87
Plant & Pre-Rigid	6R-38	MFWD 150	28,900	150	8	0.106	2.20	2.80	1.15	0.40	6.57	2.25	2.49	11.33
Plant & Pre-Rigid	8R-30	MFWD 170	37,000	150	8	0.101	2.09	3.02	1.40	0.42	6.95	2.74	2.74	12.44
Plant & Pre-Rigid	8R-38	MFWD 170	33,300	150	8	0.080	1.65	2.38	1.00	0.33	5.38	1.95	2.16	9.50
Plant & Pre-Rigid	10R-30	MFWD 190	34,400	150	8	0.081	1.67	2.70	1.04	0.36	5.79	2.04	2.32	10.15
Plant & Pre-Rigid	11R-15	MFWD 170	40,800	150	8	0.148	3.06	4.40	2.26	0.62	10.36	4.41	4.00	18.78
Plant & Pre-Rigid	11R-20	MFWD 170	38,200	150	8	0.110	2.29	3.30	1.58	0.46	7.65	3.09	2.99	13.74
Plant & Pre-Rigid	12R-20	MFWD 190	44,100	150	8	0.101	2.09	3.37	1.67	0.45	7.60	3.27	2.90	13.78
Plant & Pre-Rigid	12R-30	MFWD 190	50,900	150	8	0.067	1.39	2.25	1.29	0.30	5.24	2.51	1.93	9.69
Plant & Pre-Rigid	13R-18/20	MFWD 225	43,600	150	8	0.093	1.93	3.68	1.53	0.55	7.70	2.98	3.57	14.26
Plant & Pre-Rigid	15R-15	MFWD 190	51,700	150	8	0.108	2.24	3.61	2.10	0.48	8.44	4.10	3.10	15.65
Plant & Pre-TwinRow	12R-30/40	MFWD 225	102,000	150	8	0.053	1.10	2.10	2.04	0.31	5.57	3.98	2.04	11.59
Plant & Pre-TwinRow	8R-30/40	MFWD 225	83,700	150	8	0.080	1.65	3.16	2.51	0.47	7.81	4.90	3.06	15.79
Plant - Folding	8R-38	MFWD 170	35,100	150	8	0.074	1.53	2.21	0.98	0.31	5.05	1.91	2.01	8.97
Plant - Folding	8R-38 2x1	MFWD 170	57,700	150	8	0.049	1.02	1.47	1.07	0.20	3.78	2.09	1.33	7.21
Plant - Folding	12R-20	MFWD 190	56,500	150	8	0.094	1.94	3.13	1.99	0.42	7.50	3.89	2.69	14.09
Plant - Folding	12R-30	MFWD 190	59,300	150	8	0.062	1.29	2.09	1.39	0.28	5.06	2.72	1.79	9.58
Plant - Folding	12R-38	MFWD 190	57,700	150	8	0.049	1.02	1.64	1.07	0.22	3.97	2.09	1.41	7.48
Plant - Folding	16R-30	MFWD 190	77,900	150	8	0.047	0.97	1.56	1.37	0.21	4.12	2.68	1.34	8.15
Plant - Folding	23R-15	MFWD 190	99,600	150	8	0.065	1.35	2.17	2.44	0.29	6.26	4.76	1.87	12.90
Plant - Folding	24R-15	MFWD 225	108,000	150	8	0.062	1.29	2.47	2.54	0.37	6.69	4.95	2.40	14.05
Plant - Folding	24R-20	MFWD 190	115,000	150	8	0.047	0.97	1.56	2.03	0.21	4.78	3.96	1.34	10.09
Plant - Folding	24R-30	MFWD 190	130,000	150	8	0.031	0.64	1.04	1.53	0.14	3.36	2.98	0.89	7.25
Plant - Folding	31R-15	MFWD 225	117,000	150	8	0.048	1.00	1.91	2.13	0.29	5.35	4.16	1.86	11.38
Plant - Folding	32R-15	MFWD 225	131,000	150	8	0.047	0.97	1.85	2.31	0.28	5.42	4.51	1.80	11.73
Plant - Folding	36R-20	MFWD 225	139,000	150	8	0.031	0.64	1.23	1.63	0.18	3.71	3.19	1.20	8.10
Plant - Rigid	4R-30	2WD 130	18,500	150	8	0.188	3.89	4.29	1.30	0.57	10.06	2.54	3.51	16.13
Plant - Rigid	4R-38	2WD 130	20,000	150	8	0.148	3.06	3.37	1.11	0.45	8.01	2.16	2.76	12.95
Plant - Rigid	6R-30	MFWD 150	27,400	150	8	0.125	2.59	3.30	1.29	0.47	7.66	2.51	2.93	13.11
Plant - Rigid	6R-38	MFWD 150	23,900	150	8	0.099	2.05	2.60	0.88	0.37	5.92	1.73	2.31	9.97
Plant - Rigid	8R-30	MFWD 170	32,000	150	8	0.094	1.94	2.80	1.13	0.39	6.28	2.20	2.54	11.03
Plant - Rigid	8R-38	MFWD 170	28,300	150	8	0.074	1.53	2.21	0.79	0.31	4.86	1.54	2.01	8.41
Plant - Rigid	10R-30	MFWD 190	29,400	150	8	0.075	1.55	2.50	0.83	0.33	5.23	1.62	2.15	9.01
Plant - Rigid	11R-15	MFWD 170	35,800	150	8	0.137	2.84	4.09	1.84	0.58	9.36	3.59	3.71	16.68
Plant - Rigid	11R-20	MFWD 170	33,200	150	8	0.103	2.12	3.06	1.28	0.43	6.91	2.49	2.78	12.19
Plant - Rigid	12R-20	MFWD 190	39,100	150	8	0.094	1.94	3.13	1.38	0.42	6.88	2.69	2.69	12.27
Plant - Rigid	12R-30	MFWD 190	45,900	150	8	0.062	1.29	2.09	1.08	0.28	4.75	2.10	1.79	8.65

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Plant - Rigid	13R-18/20	MFWD 225	38,600	150	8	0.086	1.79	3.42	1.25	0.51	6.99	2.45	3.31	12.76
Plant - Rigid	15R-15	2WD 150	45,100	150	8	0.094	1.94	2.47	1.59	0.33	6.35	3.10	2.03	11.49
Plant - TwinRow	12R-30/40	MFWD 225	95,500	150	8	0.049	1.02	1.95	1.77	0.29	5.05	3.46	1.89	10.40
Plant - TwinRow	8R-30/40	MFWD 225	78,700	150	8	0.074	1.53	2.93	2.19	0.44	7.11	4.28	2.84	14.25
Roller/Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.44	2.83	0.14	0.37	4.79	0.19	2.32	7.31
Roller/Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.86	1.95	0.26	0.28	3.37	0.37	1.74	5.49
Roller/Cultipacker	30'	MFWD 170	16,100	300	12	0.049	0.57	1.48	0.18	0.20	2.45	0.26	1.34	4.06
Roller/Cultipacker	38'	MFWD 225	17,100	300	12	0.039	0.45	1.54	0.15	0.23	2.39	0.22	1.50	4.11
Roller/Stubble	20'	2WD 50	11,500	300	12	0.074	0.86	0.65	0.20	0.05	1.78	0.28	0.36	2.42
Roller/Stubble	32'	MFWD 225	19,500	300	12	0.046	0.54	1.83	0.21	0.27	2.87	0.30	1.78	4.95
Rotary Cutter	7'	MFWD 130	3,950	185	10	0.168	1.95	3.83	0.53	0.51	6.83	0.38	3.15	10.38
Rotary Cutter	12'	2WD 150	10,800	185	10	0.098	1.13	2.57	0.86	0.34	4.92	0.61	2.12	7.66
Rotary Cutter-Flex	15'	MFWD 150	17,700	185	10	0.078	0.91	2.06	1.12	0.29	4.40	0.80	1.83	7.04
Rotary Cutter-Flex	20'	MFWD 150	24,500	185	10	0.058	0.68	1.54	1.17	0.22	3.62	0.83	1.37	5.84
Row Cond & Inc-Fold.	26'	MFWD 190	23,200	100	10	0.063	1.02	2.11	0.36	0.28	3.78	1.58	1.81	7.18
Row Cond & Inc-Fold.	38'	MFWD 225	27,300	100	10	0.043	0.70	1.70	0.29	0.25	2.96	1.27	1.65	5.89
Row Cond & Inc-Rigid	13'	2WD 130	11,400	100	10	0.126	2.04	2.88	0.36	0.38	5.68	1.55	2.36	9.60
Row Cond & Inc-Rigid	21'	2WD 170	15,200	100	10	0.078	1.26	2.33	0.29	0.29	4.19	1.28	1.86	7.34
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.88	0.11	0.11	1.54	0.47	0.76	2.77
Row Cond Folding	26'	MFWD 225	18,100	100	10	0.059	0.69	2.35	0.27	0.35	3.67	1.16	2.28	7.11
Row Cond Folding	38'	MFWD 225	22,200	100	10	0.040	0.47	1.60	0.22	0.24	2.55	0.97	1.56	5.09
Row Cond Rigid	13'	2WD 130	6,310	100	10	0.119	1.38	2.71	0.18	0.36	4.65	0.81	2.22	7.69
Row Cond Rigid	21'	2WD 170	10,100	100	10	0.073	0.85	2.20	0.18	0.27	3.51	0.80	1.75	6.08
Row Cond Rigid	26'	MFWD 190	11,500	100	10	0.059	0.69	1.98	0.17	0.26	3.11	0.73	1.70	5.56
Row Cond./Roll-Fold.	26'	MFWD 190	25,900	160	10	0.072	0.83	2.39	0.46	0.32	4.02	1.25	2.06	7.34
Row Cond./Roll-Fold.	30'	MFWD 190	35,400	160	10	0.062	0.72	2.07	0.55	0.27	3.63	1.48	1.78	6.90
Row Cond./Roll-Fold.	40'	MFWD 225	36,100	160	10	0.046	0.54	1.84	0.42	0.27	3.09	1.13	1.79	6.02
Row Cond./Roll-Rigid	21'	MFWD 190	19,700	160	10	0.089	1.03	2.96	0.43	0.39	4.84	1.18	2.55	8.57
Row Cond./Roll-Rigid	26'	MFWD 190	22,200	160	10	0.072	0.83	2.39	0.40	0.32	3.95	1.07	2.06	7.09
Spin Spreader	5 ton	MFWD 190	11,300	100	8	0.042	0.86	1.39	0.26	0.18	2.72	0.54	1.20	4.47
Spray (ATV Ropewick)	75"	800 CC	550	200	8	0.260	4.19	0.63	0.06	0.30	5.21	0.08	1.23	6.53
Spray (ATV)	12'/17'	800 CC	580	200	8	0.112	1.81	0.27	0.03	0.13	2.26	0.03	0.53	2.83
Spray (ATV)	20'	800 CC	1,280	200	8	0.084	1.36	0.20	0.05	0.10	1.72	0.06	0.40	2.18
Spray (Band)	27' Fold	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Band)	40' Fold	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Band)	50' Fold	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Band)	53' Fold	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Band)	60' Fold	MFWD 170	11,100	200	8	0.028	0.45	0.83	0.14	0.11	1.56	0.17	0.76	2.50
Spray (Bcast/HB)	13' Rigid	MFWD 150	4,860	200	8	0.130	2.09	3.41	0.29	0.49	6.31	0.36	3.03	9.71
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,570	200	8	0.084	1.36	2.22	0.22	0.32	4.12	0.27	1.97	6.37
Spray (Bcast/HB)	27' Fold	MFWD 170	9,640	200	8	0.062	1.01	1.86	0.28	0.26	3.42	0.34	1.69	5.46
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,410	200	8	0.062	1.01	1.86	0.18	0.26	3.32	0.23	1.69	5.25
Spray (Bcast/HB)	30' Fold	MFWD 170	13,300	200	8	0.056	0.90	1.67	0.35	0.23	3.17	0.43	1.52	5.13
Spray (Bcast/HB)	40' Fold	MFWD 170	13,500	200	8	0.042	0.68	1.25	0.26	0.17	2.38	0.32	1.14	3.85
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	1.01	1.86	0.60	0.26	3.74	0.73	1.69	6.17
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.68	1.25	0.48	0.17	2.60	0.59	1.14	4.33
Spray (Broadcast)	27'	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Broadcast)	40'	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Broadcast)	50'	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Broadcast)	53'	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Broadcast)	60'	MFWD 170	11,100	200	8	0.028	0.45	0.83	0.14	0.11	1.56	0.17	0.76	2.50
Spray (Direct/Hood)	8R-30	MFWD 170	14,700	200	8	0.084	1.36	2.51	0.58	0.35	4.82	0.71	2.28	7.82
Spray (Direct/Hood)	8R-38	MFWD 170	16,000	200	8	0.066	1.07	1.99	0.50	0.28	3.85	0.61	1.80	6.27
Spray (Direct/Hood)	12R-30	MFWD 170	18,700	200	8	0.056	0.90	1.67	0.49	0.23	3.32	0.60	1.52	5.44
Spray (Direct/Hood)	12R-38	MFWD 170	19,200	200	8	0.044	0.71	1.32	0.40	0.18	2.63	0.49	1.20	4.32
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.36	2.51	0.41	0.35	4.65	0.50	2.28	7.44
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.07	1.99	0.35	0.28	3.70	0.43	1.80	5.94
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	16,700	200	8	0.044	0.71	1.32	0.34	0.18	2.57	0.42	1.20	4.20
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.09	2.01	0.38	0.28	3.77	0.47	1.82	6.07
Spray (Direct/Layby)	12R-30	MFWD 170	14,700	200	8	0.056	0.90	1.67	0.38	0.23	3.21	0.47	1.52	5.21
Spray (Direct/Layby)	12R-38	MFWD 170	16,700	200	8	0.044	0.71	1.32	0.34	0.18	2.57	0.42	1.20	4.20
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.02	1.88	0.29	0.26	3.46	0.35	1.71	5.53
Spray (Levee Leaper)	50'	MFWD 225	11,600	200	8	0.033	0.54	1.33	0.18	0.20	2.26	0.22	1.29	3.78
Spray (Pull Type)	60'	MFWD 225	26,900	200	8	0.028	0.45	1.11	0.35	0.16	2.08	0.43	1.07	3.60
Spray (Pull Type)	80'	MFWD 225	36,800	200	8	0.021	0.34	0.83	0.36	0.12	1.66	0.44	0.80	2.91
Spray (Pull Type)	90'	2WD 50	35,500	200	8	0.018	0.30	0.16	0.31	0.01	0.79	0.38	0.09	1.27
Spray (Pull Type)	100'	MFWD 225	36,800	200	8	0.016	0.27	0.66	0.29	0.10	1.33	0.35	0.64	2.33
Spray (Pull Type)	120'	MFWD 225	50,700	200	8	0.014	0.22	0.55	0.33	0.08	1.20	0.41	0.53	2.15
Spray (Ropewick)	20'	MFWD 190	2,450	200	8	0.084	1.36	2.81	0.09	0.37	4.65	0.11	2.41	7.19
Spray (Spot)	27'	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Spot)	40'	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Spot)	50'	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Spot)	53'	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Spot)	60'	MFWD 225	11,100	200	8	0.028	0.45	1.11	0.14	0.16	1.88	0.17	1.07	3.13
Stalk Shredder	14'	MFWD 150	12,400	200	10	0.117	1.36	3.09	1.27	0.44	6.18	0.78	2.75	9.72
Stalk Shredder	20'	MFWD 150	30,500	200	10	0.082	0.95	2.16	2.20	0.31	5.63	1.35	1.92	8.91
Stalk Shredder-Flail	12'	MFWD 150	14,800	200	10	0.137	1.59	3.60	1.78	0.52	7.50	1.09	3.20	11.81

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Stalk Shredder-Flail	15'	MFWD 150	18,700	200	10	0.110	1.27	2.88	1.79	0.41	6.38	1.10	2.56	10.05
Stalk Shredder-Flail	18'	MFWD 150	23,100	200	10	0.091	1.06	2.40	1.85	0.34	5.67	1.13	2.13	8.94
Stalk Shredder-Flail	20'	MFWD 150	24,100	200	10	0.082	0.95	2.16	1.73	0.31	5.17	1.06	1.92	8.17
Stalk Shredder-Flail	25'	MFWD 150	31,400	200	10	0.066	0.76	1.73	1.81	0.25	4.56	1.11	1.54	7.21
Strip Till	12R-30	MFWD 225	28,600	150	10	0.061	0.71	2.42	0.76	0.36	4.27	1.26	2.35	7.88
Subsoiler	3 shank	MFWD 190	3,250	100	15	0.204	2.37	6.79	0.22	0.91	10.29	0.56	5.84	16.70
Subsoiler	4 shank	MFWD 225	7,340	100	15	0.153	1.78	6.04	0.37	0.91	9.12	0.95	5.86	15.94
Subsoiler	5 shank	MFWD 225	7,070	100	15	0.122	1.41	4.81	0.28	0.73	7.25	0.72	4.67	12.65
Subsoiler low-till	4 shank	MFWD 225	1,060	100	15	0.153	1.78	6.04	0.05	0.91	8.80	0.13	5.86	14.80
Subsoiler low-till	6 shank	MFWD 225	15,100	100	15	0.102	1.18	4.02	0.51	0.60	6.33	1.30	3.90	11.53
Subsoiler low-till	8 shank	MFWD 225	19,250	100	15	0.076	0.88	3.01	0.49	0.45	4.84	1.24	2.92	9.01

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, 2012

ITEM NAME	UNIT	PRICE
		dollars
ADJUVANTS		
Crop Oil Conc.(Pet.)	pt	1.55
Crop Oil Conc.(Veg.)	pt	3.36
Drift/Defoamer	pt	5.75
Spreader Sticker	pt	3.78
Surfactant	pt	2.62
CLEANING		
Cleaning Peanuts	ton	18.00
CROP CONSULTANT		
Crop Consultant	acre	5.00
Rice Consultant	acre	7.00
CUSTOM FERTILIZE		
App Fert by Air	cwt	6.25
App Fert by Air(Min)	appl	6.25
Custom Apply Fert	acre	7.00
CUSTOM LIME		
Lime (Spread)	ton	44.00
CUSTOM PLANT		
Custom Plant	acre	7.00
Custom Plant Air	cwt	6.25
CUSTOM SPRAY		
App by Air (2 gal)	appl	3.75
App by Air (3 gal)	appl	4.50
App by Air (5 gal)	appl	5.75
App by Air (10 gal)	appl	7.75
Custom Spray	acre	6.50
DRYING		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Peanuts	ton	24.00
Dry Rice	bu	0.40
ERADICATION FEE		
Eradication	acre	1.50
FERTILIZERS		
Amm Nitrate (34% N)	cwt	20.58
Amm Sulfate (21% N)	cwt	18.90
Amm Sulfate dry/mix	lb	0.28
Boron 15G	lb	0.40
Boron Plus	pt	4.00
DAP	cwt	32.46
Fert 10-34-0	cwt	29.25
Fert 11-37-0	cwt	30.25
Fert 30-0-0-5	cwt	18.32
Fert 33-0-0-12s	cwt	21.50
Fert 41-0-0-4	cwt	21.88
Lime	ton	34.00
MAP	cwt	33.33
Phosphorus(46% P2O5)	cwt	28.65
Potash (60% K2O)	cwt	29.19
Sulfur 90%	lb	0.30
Sulfur Plus	pt	2.37
SuperMax AMS	pt	2.47
UAN (32% N)	cwt	18.54
UAN + Sulfur (28%)	cwt	18.54
Urea, Solid (46% N)	cwt	22.29
Zinc Plus	pt	2.62
Zinc Sulfate 31%	lb	0.55
FUNGICIDES		
Abound	pt	31.25
Absolute 500SC	pt	53.42
Allegiance Flowable	pt	50.63
Apron Maxx RTA	oz	0.83
Apron Maxx RTA+Moly	pt	14.84
Apron XL LS	oz	8.51
Artisan	oz	0.85
Bravo Ultrex	lb	6.83
Bravo Weather Stick	pt	3.72
Captan 50 WP	lb	5.05
Cotton Seed Trt.	acre	20.00
Dithane F-45	qt	8.13
Dithane Rainshield	lb	2.25
Enable 2F	oz	1.90
Folicur 3.6	oz	1.08
Gem 25 WG	oz	3.70
Headline EC	oz	2.66
Manzate 75 DF	lb	3.49
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	24.85
Prevail	lb	28.25
Provost	oz	2.16
Quadris	oz	2.24
Quadris Ridomil Gold	oz	3.26
Quilt	pt	16.88
Quilt XCEL	pt	22.06
Ridomil Gold	oz	6.25
Ridomil Gold PC GR	lb	2.35
Rovral 4F	pt	16.88
Stiletto	oz	0.56
Stratego	pt	19.31
Terrachlor 2EC	pt	1.87
Tilt 3.6 EC	oz	1.25
Tilt/ Bravo SE	oz	0.30
Uniform	oz	3.07
Vitavax RTU-Thiram	oz	0.35
GINNING		
Gin & Haul	lb	0.09
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
Mepex	oz	0.08
Mepex Gin Out	oz	0.14
Mepiquat	oz	0.08
Mepiquat Extra	oz	0.09
Pentia	pt	4.44
Stance	oz	1.15
SuperBoll	pt	3.00
HARVEST AIDS		
Adios	oz	1.29
Aim 2EC	oz	6.70
Ammonium Sulfate	lb	0.28
Boll Buster	pt	3.27
CottonQuik	pt	4.25
Def 6	pt	7.34
Def/Folex	pt	7.92
Defol 3	gal	3.00
Defol 5	gal	5.95
Defol 750	pt	1.24
Dropp SC	oz	1.74
ET	pt	46.88
Ethephon 6E	pt	3.55
Finish 6	pt	7.29
First Pick	pt	3.12
Folex 6EC	pt	8.49
Freefall SC	oz	1.41
Ginstar EC	pt	27.36
Gramoxone Inteon	oz	0.30
Prep	pt	3.00
Shed-a-leaf	gal	3.60
Sodium Chlorate 3L	gal	3.00
Sodium Chlorate 5L	gal	5.95
TDZ SC	oz	1.37
Thidiazuron 4lb	oz	1.41
Tribufos 6lb	pt	7.92
HAULING		
Haul Corn/Bin	bu	0.16
Haul Corn/Field	bu	0.24
Haul Cotton	lb	0.02
Haul Peanuts	ton	14.50
Haul Rice/Bin	bu	0.32
Haul Rice/Field	bu	0.26
Haul Sorghum/Bin	bu	0.16

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Sorghum/Field	bu	0.24	Fusilade DX	oz	1.13
Haul Soybeans/Bin	bu	0.16	Fusion	pt	24.31
Haul Soybeans/Field	bu	0.24	Glyfos	pt	1.66
Haul Wheat/Bin	bu	0.16	Glyfos Xtra	pt	1.56
Haul Wheat/Field	bu	0.24	Glyphosate 3lbs a.e.	pt	1.75
HERBICIDES			Glyphosate 3lbs a.e.	oz	0.11
2,4-D Amine 4	pt	2.01	Glystar	pt	1.66
2,4-D LV 4Ester	pt	2.31	Glystar Plus	pt	1.56
2,4-D Weedar 64	pt	1.99	Goal 2XL	pt	9.31
2,4-DB 200	pt	4.34	Gramoxone Inteon	oz	0.25
AAtrex 4L	pt	2.12	Grandstand R	qt	24.63
AAtrex NINE-O	lb	4.60	Guardsman Max	pt	6.66
Accent Q	oz	28.05	Halex GT	pt	5.00
Accent SP	oz	36.25	Harmony Extra SG	oz	12.50
Aim 2EC	oz	10.38	Harmony Extra XP	oz	14.40
Assure II	oz	0.84	Harmony GT	oz	19.35
Atrazine 4L	pt	2.04	Harness	pt	11.88
Atrazine 90DF	lb	4.25	Harness XTRA	pt	7.31
Axial	pt	14.94	Hoelon 3EC	pt	11.03
Axiom 68DF	lb	26.95	Hornet WDG	lb	65.62
Banvel	pt	4.94	Ignite 280	oz	0.40
Basagran	pt	11.69	Impact	oz	18.25
Basis	oz	17.50	Karmex XP	lb	6.50
Beacon 75% WSP	oz	34.87	Lariat	qt	5.71
Beyond	oz	4.20	Layby Pro	qt	12.75
Bicep II Magnum	qt	11.01	Lexar	pt	5.72
Bicep Lite Magnum	pt	7.07	Lightning	oz	14.25
Blazer Ultra	pt	8.94	Linex 4L	pt	8.87
Bolero 8EC	pt	6.50	Londax 60DF	oz	14.50
Boundary 6.5 EC	pt	8.72	Lorox 50DF	lb	18.83
Buccaneer Plus	pt	1.81	Makaze	pt	1.50
Buctril 4EC	pt	17.06	MSMA 6.6	pt	2.69
Bullet	pt	2.97	MSMA6 Plus	pt	2.81
Butoxone	pt	4.12	Newpath 2SL	oz	3.29
Butyrac 200 (2,4-DB)	pt	3.84	Option	oz	9.95
Cadre	oz	3.16	Ordram 15-GM	lb	1.34
Callisto 4SC	oz	4.77	Osprey	oz	3.05
Canopy 75%	oz	3.13	Outlook	pt	20.63
Canopy EX	oz	6.50	Parrlay	pt	8.13
Caparol 4L	pt	3.59	Peak Accu Pak	oz	13.75
Celebrity Plus	lb	84.50	Permit 75 DF	oz	17.88
Clarity	pt	10.31	Poast 1.53	pt	10.22
Classic	oz	15.28	Poast Plus	pt	7.84
Clearpath	lb	50.00	Prefix	pt	6.14
Clincher SF	oz	1.97	Propimax EC	pt	
Cobra 2EC	oz	1.30	Prowl 3.3 EC	pt	4.29
Command 3ME	pt	14.75	Prowl H20	pt	5.13
Cornerstone Plus	pt	1.50	Pursuit 2S	oz	4.73
Cotoran 4L	pt	4.69	Python WDG	oz	12.44
Cotton Pro	pt	3.44	Raptor	oz	4.62
Credit Extra	pt	1.69	Reflex 2LC	pt	15.44
Direx 4L	pt	3.00	Regiment 80WP	oz	36.63
Diuron 4L	pt	3.28	Remedy Ultra	pt	11.86
Diuron 80 DF	lb	5.25	Resolve SG	oz	7.20
Diuron 80%	lb	5.25	Resource .86EC	pt	24.30
Dual II Magnum	pt	12.25	Ricebeaux	pt	5.04
Dual Magnum	pt	12.25	RicePro	pt	4.94
Duet	pt	4.45	Riceshot	pt	3.34
Envoke	oz	83.08	Ricestar HT	pt	20.59
Equip	oz	10.65	Rifel	pt	4.38
Evik DF 80W	lb	9.75	Roundup Power Max	oz	0.14
Exceed	oz	10.71	Roundup PowerMax	pt	2.28
Expert	pt	3.69	Roundup WeatherMax	oz	0.21
Facet 75DF	lb	45.50	Roundup WeatherMax	pt	3.28
Finesse	oz	14.75	Salvo	pt	3.56
First Rate	oz	38.60	Scepter 70 DG	oz	3.91
Flexstar HL	pt	15.63	Select Max	pt	11.80
Fluometuron 4lb	pt	4.50	Sequence	pt	5.53
Frontier 6.0	oz	0.63			(continued)
Fultime	pt	4.56			

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Simazine 4L	pt	3.14	Imidan 70 WSB	oz	0.66
Stalwart	pt	6.25	Incidental Pest Trt	acre	12.00
Stam 80 EDF	lb	6.25	Intrepid 2F	oz	1.79
Stam M4	qt	6.69	Intruder 70WSP	oz	9.03
Staple LX	oz	7.35	Karate Z	oz	2.73
Steadfast	oz	23.95	Kelthane MF 4EC	pt	5.03
Sterling Blue	pt	9.81	Lannate LV	pt	9.56
Storm	*pt*	*11.56*	Lannate SP	oz	1.68
Strada WG	oz	6.30	Larvin 3.2	oz	0.60
Strongarm	oz	47.50	Leverage 2.7	oz	1.33
Superwham	qt	8.26	Lorsban 15G	lb	1.85
Suprend	lb	11.50	Lorsban 4E	pt	5.00
Surpass EC	qt	23.00	Malathion 5E	pt	4.44
Synchrony XP	oz	9.98	Malathion 8E	pt	5.50
Touchdown Total	qt	4.25	Methyl Parathion 4	pt	5.44
Treflan HFP	pt	3.12	Monitor 4	pt	16.33
Treflan TR-10	lb	0.92	Mustang Max	oz	1.43
Trifluralin 4EC	pt	3.19	Oberon 4 SC	pt	71.22
Ultra Blazer	pt	10.23	Orthene 90S	lb	3.25
Valor SX	oz	4.58	Penncap-M	pt	4.59
Valor XLT	oz	3.73	Phorate	lb	2.69
Whip 360	pt	25.08	Pounce 25WP	lb	10.63
Zorial Rapid 80DF	lb	13.95	Prolex	oz	2.62
INOCULANT			Provado 1.6F	oz	1.94
Nitrastick S	lbseed	0.02	Respect .8EC	pt	29.04
Optimize LIFT	oz	0.58	Sevin 4F	pt	5.22
INSECT SCOUTING			Sevin 80S	lb	7.35
Insect Scouting	acre	7.00	Sevin XLR Plus	qt	11.13
INSECTICIDES			Sniper	oz	0.70
Acephate 90%	lb	6.63	Steward	pt	28.13
Acephate 90SP	lb	6.63	Temik 15G Grit	lb	4.00
Acramite-4SC	oz	1.37	Temik 15G Gypsum	lb	3.90
Ambush 2E	oz	0.27	Thimet 20-G Lock N L	lb	3.10
Asana .66 XL	oz	0.71	Thionex 3 EC	pt	3.47
Aztec 2.1% G	lb	2.65	Thionex 50W	lb	8.20
Baythroid XL	oz	2.19	Tombstone Helios	pt	36.30
Bidrin 8WM	oz	0.91	Tracer 4SC	oz	8.20
Bidrin XP	oz	0.78	Trimax Pro	oz	2.30
Bifenture 2EC	pt	12.50	Tundra	oz	0.80
Brigade EC	pt	12.50	Vydate C-LV	oz	0.70
Brigade WSB	lb	21.00	Warrior Z	oz	1.80
Capture 2EC	oz	1.76	Wrangler	oz	1.70
Capture LFR	oz	1.80	Zeal	oz	14.50
Carbaryl 4L	pt	4.34	Zephyr	oz	2.20
Carbine 50WG	oz	5.11	IRRIGATION SUPPLIES		
Centric 40WG	oz	3.58	Roll-Out Pipe	ft	0.20
Comite ll	pt	6.00	SEED/PLANTS		
Confirm 2F	oz	1.68	Corn Seed BtRR	thous	2.93
Counter 15G	lb	2.50	Corn Seed RR2	thous	2.78
Cruiser 5FS	oz	13.25	Corn Seed VT3	thous	2.97
Curacron 8E	pt	10.78	Corn Seed VT3Pro	thous	3.23
Cypermethrin	oz	0.47	Cotton Seed B2RF	thous	0.62
Delta Gold	pt	40.47	Cotton Seed LL	thous	1.05
Denim 0.16 EC	pt	27.19	Cotton Seed LLB2	thous	1.10
Di-Syston 15G	lb	3.48	Cotton Seed RF	thous	0.57
Di-Syston 8	pt	14.32	Cotton Seed W	thous	0.49
Diamond .83EC	pt	16.74	Cotton Seed WRF	thous	0.63
Dimethoate 4E	pt	5.50	Peanut Seed	lb	1.25
Dimilin 2L	oz	1.76	Rice Clearfield	lb	0.94
Dipel DF	lb	12.25	Rice Clearfield Hyb	lb	5.70
Dipel ES	pt	4.56	Rice Conv. Hybrid	lb	1.00
Discipline 2 EC	oz	0.78	Rice Seed (Levees)	lb	0.45
Endigo ZC	pt	26.25	Rice Seed CF(Levees)	lb	0.94
Fanfare 2EC	oz	0.78	Rice Seed CFH(Levee)	lb	5.70
Force 3G	lb	4.85	Rice Seed Conv.	lb	0.45
Furadan 4F	pt	9.81	Sorghum Concept	lb	1.82
Furadan 4FLFR	pt	9.70	Soybean Seed LL	lb	0.99
Gaucho 600	oz	5.75	Soybean Seed RR2	lb	0.98
Hero	pt	21.88	Wheat Seed Private	lb	0.32
Holster	pt	0.80			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
			LLB2 Cot Tech Fee	thous	0.76
SURVEY & MARK LEVEES			RF Cot Tech Fee	thous	1.04
Survey & Mark Levees	acre	4.50	RF Cot Tech Fee	cap/ac	48.25
Survey & Mark Levees	acre	4.50	WRF Cot Tech Fee	thous	1.45
TECHNOLOGY FEE			WS Cot Tech Fee	thous	0.41
B2 Cot Tech Fee	thous	0.76	WS Cotton Tech Fee	cap/ac	24.00
B2 Cot Tech Fee	cap/ac	35.25			
B2RF Cot Tech Fee	thous	1.49			
B2RF Cot Tech Fee	cap/ac	69.25			

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2012

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	3.40
Gasoline	gal	3.50
LP Gas	gal	2.60
INTEREST RATES		
Short-term	%	4.25
Intermediate-term	%	5.25

Appendix Table 6. Labor types, wage rates and unallocated labor multipliers for crop enterprises, Mississippi, 2012

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.60
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, 2012

	Unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '12	5.93	-0.2894	5.64	2.09	5.64
Cotton Lint	lb	Dec '12	0.939	-0.0263	0.913	.524	0.913
Cottonseed	lb						0.076[f]
Grain Sorghum	bu				5.36	6.31	5.36
Peanuts	ton				750.00	355.00	750.00
Soybeans	bu	Nov '12	12.17	-0.3120	11.86	5.20	11.86
Rice	bu	Sep '12	7.47	-0.8030	6.67	2.96	6.67
Wheat	bu	Jul '12	6.99	-0.7008	6.29	2.29	6.29

[a] Average of the futures contract month closings in October.

[b] The basis is computed by subtracting the 2001-2011 average near futures contract month closings in October from the daily spot cash prices reported in October. Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

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

[d] Average Mississippi loan rate for the 2011 crop year for soybeans, corn, grain sorghum, and wheat. 2011 Mississippi base loan rate for the Delta area for cotton. 2011 Mississippi loan rate for long grain rice. 2011 national average loan rate for peanuts.

[e] Price used in the 2012 MAFES Planning Budgets.

[f] Cottonseed price is the marketing year average price averaged over the years 2006-2010, Agricultural Prices Summary, USDA.

Appendix Table 8. Estimated costs for field operations, per acre
Irrigation with a 1/4-mile center pivot system
135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Maintenance										
IRRIGATE LABOR	hour				1.07		0.02	1.09		1.09
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20		0.20
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Pivot, 1/4 CP	each			12.00			0.21	12.21	49.17	61.38
Well & Pump, 1/4 CP	each			2.89			0.05	2.94	8.76	11.70
Engine, 1/4 CP, 65	each								6.80	6.80
June Irr. 3app@.75"	ac-in		11.43	0.93			0.22	12.58		12.58
July Irr. 4app@.75"	ac-in		15.23	1.24			0.23	16.70		16.70
Aug Irr. 3app@.75"	ac-in		11.43	0.93			0.13	12.49		12.49
TOTALS		0.00	38.09	17.99	1.84	0.00	0.87	58.79	64.73	123.52

Note: Cost of production estimates are based on 2011 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
Corn irrigated with roll-out pipe
160-acre system, 13 ac-in., Delta Area, Mississippi, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
			dollars							
Land Plane	50'x16'		1.26	0.25	0.44		0.08	2.03	1.30	3.33
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.21	0.05	0.11		0.01	0.38	0.19	0.57
Roll-Out Pipe	ft	6.60					0.09	6.69		6.69
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.28	0.06	0.37		0.01	0.72	0.50	1.22
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.43	0.10	0.56		0.01	1.10	0.75	1.85
Land Forming ($75)	each								7.09	7.09
Well & Pump, Furrow	each			2.44			0.03	2.47	7.39	9.86
Main Line Pipe	each								5.16	5.16
Engine, RPF, Corn	each								7.27	7.27
1st June Irrigation	ac-in		9.00	0.83			0.14	9.97		9.97
2nd June Irrigation	ac-in		9.00	0.83			0.14	9.97		9.97
3rd June Irrigation	ac-in		9.00	0.83			0.14	9.97		9.97
1st July Irrigation	ac-in		9.00	0.83			0.10	9.93		9.93
TOTALS		6.60	38.18	6.22	4.44	0.00	0.78	56.22	29.65	85.87

Note: Cost of production estimates are based on 2011 input prices.

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