

**CORN, GRAIN
SORGHUM & WHEAT
2013
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2012-05**

December 2012

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2013 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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2013 Planning Budgets

Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for a major crop produced by Mississippi farmers. A multidisciplinary approach involving researchers and extension personnel was used to determine production practices and input quantities, and to estimate costs and returns for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs and returns for each budget included in this publication.

Enterprise budgets represent a type of information that can be used by a wide variety of individuals in making decisions in the food and fiber industry. They are used:

- by farmers for planning,
- by extension personnel in providing educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform non-farmers of the costs incurred by farmers in the production of food and fiber crops.

A budget should be prepared with a specific objective in mind. The budgets in this report were prepared to provide general information for several different uses. They provide information concerning general levels of costs and returns which will need to be adjusted for specific situations. Most users should think of these budgets as a first approximation and then make appropriate adjustments using the "Your Farm" column provided on each budget to add, delete, or change costs or incomes to reflect their specific situations.

Methods and Procedures

Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2012. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own 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 2012 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.8000	57.60	_____
Potash (60% K2O)	cwt	29.80	1.3750	40.98	_____
Fert 10-34-0	cwt	35.00	0.5000	17.50	_____
UAN + Sulfur (28%)	cwt	20.90	3.5710	74.63	_____
UAN (32% N)	cwt	21.10	4.3750	92.31	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.34	30.0000	100.20	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	185.0000	51.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4883	5.72	_____
Harvesters	hour	11.71	0.1009	1.18	_____
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	11.70	0.4597	5.38	_____
DIESEL FUEL					
Tractors	gal	3.50	4.6505	16.29	_____
Harvesters	gal	3.50	1.6890	5.91	_____
Roll-Out Pipe Irr.	gal	3.50	10.5901	37.08	_____
REPAIR & MAINTENANCE					
Implements	acre	6.71	1.0000	6.71	_____
Tractors	acre	2.26	1.0000	2.26	_____
Harvesters	acre	3.13	1.0000	3.13	_____
Roll-Out Pipe Irr.	acre	5.80	1.0000	5.80	_____
INTEREST ON OP. CAP.	acre	14.39	1.0000	14.39	_____
TOTAL DIRECT EXPENSES				637.46	_____
FIXED EXPENSES					
Implements	acre	9.66	1.0000	9.66	_____
Tractors	acre	14.44	1.0000	14.44	_____
Harvesters	acre	12.55	1.0000	12.55	_____
Roll-Out Pipe Irr.	acre	48.18	1.0000	48.18	_____
TOTAL FIXED EXPENSES				84.83	_____
TOTAL SPECIFIED EXPENSES				722.29	_____

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.02	185.0000	1113.70	_____

TOTAL INCOME				1113.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	283.02	1.0000	283.02	_____
HERBICIDES	acre	38.06	1.0000	38.06	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	100.20	1.0000	100.20	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	51.80	1.0000	51.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.71	0.5893	6.90	_____
UNALLOCATED LABOR	hour	11.70	0.4597	5.38	_____
DIESEL FUEL	gal	3.50	16.9298	59.28	_____
REPAIR & MAINTENANCE	acre	17.90	1.0000	17.90	_____
INTEREST ON OP. CAP.	acre	14.39	1.0000	14.39	_____

TOTAL DIRECT EXPENSES				637.46	_____
RETURNS ABOVE DIRECT EXPENSES				476.24	_____
TOTAL FIXED EXPENSES				84.83	_____

TOTAL SPECIFIED EXPENSES				722.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				391.41	_____

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

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

Table 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K20)	cwt					1.3750				
Bed-Disk w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					30.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	325 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.58	0.58	1.15	0.45

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.96	23.46		23.46
Spin Spreader	5 ton		1.44	0.46	1.31			0.14	3.35	1.83	5.18
DAP	cwt	57.60						2.45	60.05		60.05
Potash (60% K2O)	cwt	40.98						1.74	42.72		42.72
Bed-Disk w/roller	8R-38		2.54	0.81	1.65			0.21	5.21	3.48	8.69
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68		3.68
Clarity	pt	5.42						0.15	5.57		5.57
Plant & Pre-Rigid	8R-38		2.75	1.44	2.52			0.17	6.88	4.51	11.39
Corn Seed BtRR	thous	100.20						2.48	102.68		102.68
Fert 10-34-0	cwt	17.50						0.43	17.93		17.93
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	74.63						1.59	76.22		76.22
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Atrazine 4L	pt	6.88						0.15	7.03		7.03
Halex GT	pt	22.18						0.47	22.65		22.65
Fert Appl (Liquid)	8R-38		2.66	1.23	2.08			0.11	6.08	3.38	9.46
UAN (32% N)	cwt	92.31						1.63	93.94		93.94
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	7.24						0.10	7.34		7.34
Header - Corn	8R-38		5.91	4.50	2.24			0.04	12.69	14.64	27.33
Grain Cart Corn	700 bu		0.86	0.32	0.55			0.01	1.74	1.13	2.87
Haul Corn/Field	bu	51.80						0.18	51.98		51.98
Stalk Shredder Flex	20'		2.82	2.60	1.84			0.03	7.29	3.89	11.18
Roll-Out Pipe Irr.	acre	7.92	39.33	6.25	4.45			0.82	58.77	50.92	109.69
TOTALS		528.49	59.28	17.90	17.40	0.00	14.39	637.46	84.83	722.29	

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1113.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	98.58	0.00	0.00	0.00	0.00	17.50	74.63	92.31	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	100.20	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	51.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.40	0.00	0.00	0.00	0.00	2.52	0.76	2.31	2.99	0.23	0.56	4.63
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	5.28	0.00	0.00	0.00	0.00	2.75	0.97	2.66	28.32	9.27	0.44	9.59
REPAIR & MAINTENANCE	1.54	0.00	0.00	0.00	0.00	1.44	0.29	1.23	5.05	0.84	0.09	7.42
INTEREST ON OP. CAP.	5.59	0.00	0.00	0.00	0.42	3.08	2.40	1.74	0.78	0.11	0.01	0.26
TOTAL DIRECT EXPENSES	136.89	0.00	0.00	0.00	15.42	127.49	115.11	100.25	57.05	10.45	1.10	73.70
NET INCOME	-136.89	0.00	0.00	0.00	-15.42	-127.49	-115.11	-100.25	-57.05	-10.45	-1.10	1040.00
NET INCOME TO DATE	-136.89	-136.89	-136.89	-136.89	-152.31	-279.80	-394.91	-495.16	-552.21	-562.66	-563.76	476.24

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

* Lease costs are based on hourly usage costs.

Table 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, 2013

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52
PERCENT	YIELD	UNIT	dollars										
50	92.50	bu	-193 -278	-165 -250	-138 -222	-110 -195	-82 -167	-54 -139	-26 -111	1 -83	28 -55	56 -28	84 -0
60	111.00	bu	-115 -200	-82 -166	-48 -133	-15 -100	18 -66	51 -33	84 0	118 33	151 66	185 100	218 133
70	129.50	bu	-37 -122	1 -83	40 -44	79 -5	118 33	157 72	196 111	235 150	274 189	313 228	352 267
80	148.00	bu	41 -43	85 0	130 45	174 89	219 134	263 179	308 223	352 268	397 312	442 357	486 401
90	166.50	bu	119 34	169 84	219 134	269 185	319 235	370 285	420 335	470 385	520 435	570 485	620 535
100	185.00	bu	197 112	253 168	309 224	364 280	420 335	476 391	531 447	587 502	643 558	698 614	754 669
110	203.50	bu	276 191	337 252	398 313	459 375	521 436	582 497	643 558	704 620	766 681	827 742	888 803
120	222.00	bu	354 269	421 336	488 403	554 470	621 536	688 603	755 670	822 737	889 804	955 871	1022 937
130	240.50	bu	432 347	505 420	577 492	649 565	722 637	794 709	867 782	939 854	1011 927	1084 999	1156 1071
140	259.00	bu	511 426	589 504	667 582	745 660	822 738	900 816	978 894	1056 972	1134 1049	1212 1127	1290 1205
150	277.50	bu	589 504	672 588	756 671	840 755	923 838	1007 922	1090 1005	1174 1089	1257 1172	1341 1256	1424 1339

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 2.A Estimated costs per acre
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"
 135 bu yield goal, Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
Fert 10-34-0	cwt	35.00	0.5000	17.50	_____
UAN + Sulfur (28%)	cwt	20.90	2.1430	44.79	_____
UAN (32% N)	cwt	21.10	3.2815	69.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.34	26.0000	86.84	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4098	4.80	_____
Harvesters	hour	11.71	0.1009	1.18	_____
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	_____
UNALLOCATED LABOR	hour	11.70	0.4597	5.38	_____
DIESEL FUEL					
Tractors	gal	3.50	4.0079	14.04	_____
Harvesters	gal	3.50	1.3770	4.82	_____
REPAIR & MAINTENANCE					
Implements	acre	6.54	1.0000	6.54	_____
Tractors	acre	1.98	1.0000	1.98	_____
Harvesters	acre	2.72	1.0000	2.72	_____
INTEREST ON OP. CAP.	acre	10.49	1.0000	10.49	_____
TOTAL DIRECT EXPENSES				454.77	_____
FIXED EXPENSES					
Implements	acre	8.74	1.0000	8.74	_____
Tractors	acre	12.62	1.0000	12.62	_____
Harvesters	acre	10.91	1.0000	10.91	_____
TOTAL FIXED EXPENSES				32.27	_____
TOTAL SPECIFIED EXPENSES				487.04	_____

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

Table 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, 2013

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

TOTAL INCOME				812.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	191.04	1.0000	191.04	_____
HERBICIDES	acre	38.06	1.0000	38.06	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	86.84	1.0000	86.84	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	37.80	1.0000	37.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
OPERATOR LABOR	hour	11.71	0.5107	5.98	_____
UNALLOCATED LABOR	hour	11.70	0.4597	5.38	_____
DIESEL FUEL	gal	3.50	5.3850	18.86	_____
REPAIR & MAINTENANCE	acre	11.24	1.0000	11.24	_____
INTEREST ON OP. CAP.	acre	10.49	1.0000	10.49	_____

TOTAL DIRECT EXPENSES				454.77	_____
RETURNS ABOVE DIRECT EXPENSES				357.93	_____
TOTAL FIXED EXPENSES				32.27	_____

TOTAL SPECIFIED EXPENSES				487.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				325.66	_____

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed-Disk w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					26.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.51	0.51	0.68	0.45

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.96	23.46		23.46
Spin Spreader	5 ton		1.44	0.46	1.31			0.14	3.35	1.83	5.18
DAP	cwt	34.78						1.48	36.26		36.26
Potash (60% K2O)	cwt	24.73						1.05	25.78		25.78
Bed-Disk w/roller	8R-38		2.54	0.81	1.65			0.21	5.21	3.48	8.69
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68		3.68
Clarity	pt	5.42						0.15	5.57		5.57
Plant & Pre-Rigid	8R-38		2.75	1.44	2.52			0.17	6.88	4.51	11.39
Corn Seed BtRR	thous	86.84						2.15	88.99		88.99
Fert 10-34-0	cwt	17.50						0.43	17.93		17.93
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	44.79						0.95	45.74		45.74
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Atrazine 4L	pt	6.88						0.15	7.03		7.03
Halex GT	pt	22.18						0.47	22.65		22.65
Fert Appl (Liquid)	8R-38		2.66	1.23	2.08			0.11	6.08	3.38	9.46
UAN (32% N)	cwt	69.24						1.23	70.47		70.47
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	7.24						0.10	7.34		7.34
Header - Corn	8R-38		4.82	4.09	2.24			0.04	11.19	13.00	24.19
Grain Cart Corn	700 bu		0.86	0.32	0.55			0.01	1.74	1.13	2.87
Haul Corn/Field	bu	37.80						0.13	37.93		37.93
Stalk Shredder Flex	20'		2.82	2.60	1.84			0.03	7.29	3.89	11.18
TOTALS		401.23	18.86	11.24	12.95	0.00	10.49	454.77	32.27	487.04	

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	812.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	17.50	44.79	69.24	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	86.84	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	37.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.96	0.00	0.00	0.00	0.00	2.52	0.76	2.08	0.00	0.00	0.00	4.63
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	3.98	0.00	0.00	0.00	0.00	2.75	0.97	2.66	0.00	0.00	0.00	8.50
REPAIR & MAINTENANCE	1.27	0.00	0.00	0.00	0.00	1.44	0.29	1.23	0.00	0.00	0.00	7.01
INTEREST ON OP. CAP.	3.84	0.00	0.00	0.00	0.42	2.75	1.76	1.34	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	94.06	0.00	0.00	0.00	15.42	113.80	84.63	76.55	12.16	0.00	0.00	58.15
NET INCOME	-94.06	0.00	0.00	0.00	-15.42	-113.80	-84.63	-76.55	-12.16	0.00	0.00	754.55
NET INCOME TO DATE	-94.06	-94.06	-94.06	-94.06	-109.48	-223.28	-307.91	-384.46	-396.62	-396.62	-396.62	357.93

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

* Lease costs are based on hourly usage costs.

Table 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, 2013

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52		
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-131 -163	-110 -142	-90 -122	-70 -102	-49 -82	-29 -61	-9 -41	11 -21	31 -0	51 19	72 39
60	81.00	bu	-73 -106	-49 -81	-25 -57	-0 -33	23 -8	48 15	72 40	96 64	121 88	145 113	169 137
70	94.50	bu	-16 -48	11 -20	40 7	68 36	97 64	125 93	153 121	182 150	210 178	239 207	267 235
80	108.00	bu	40 8	72 40	105 73	137 105	170 138	202 170	235 203	267 235	300 268	333 300	365 333
90	121.50	bu	97 65	134 101	170 138	207 175	243 211	280 248	317 284	353 321	390 357	426 394	463 431
100	135.00	bu	154 122	195 163	236 203	276 244	317 285	357 325	398 366	439 406	479 447	520 488	561 528
110	148.50	bu	211 179	256 224	301 269	346 313	390 358	435 403	480 447	524 492	569 537	614 581	658 626
120	162.00	bu	269 236	317 285	366 334	415 383	464 431	512 480	561 529	610 578	659 626	707 675	756 724
130	175.50	bu	326 293	379 346	431 399	484 452	537 505	590 558	643 610	696 663	748 716	801 769	854 822
140	189.00	bu	383 351	440 408	497 464	554 521	610 578	667 635	724 692	781 749	838 806	895 863	952 920
150	202.50	bu	440 408	501 469	562 530	623 591	684 652	745 713	806 773	867 834	928 895	989 956	1050 1017

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

Table 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.8000	57.60	_____
Potash (60% K2O)	cwt	29.80	1.3750	40.98	_____
UAN + Sulfur (28%)	cwt	20.90	3.5710	74.63	_____
UAN (32% N)	cwt	21.10	4.3750	92.31	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.11	30.0000	93.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	185.0000	51.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.7718	9.04	_____
Harvesters	hour	11.71	0.1009	1.18	_____
Self-Propelled	hour	11.71	0.0176	0.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	11.71	0.7306	8.56	_____
DIESEL FUEL					
Tractors	gal	3.50	7.4227	25.98	_____
Harvesters	gal	3.50	1.3770	4.82	_____
Self-Propelled	gal	3.50	0.1586	0.56	_____
Roll-Out Pipe Irr.	gal	3.50	10.5901	37.08	_____
REPAIR & MAINTENANCE					
Implements	acre	7.68	1.0000	7.68	_____
Tractors	acre	3.61	1.0000	3.61	_____
Harvesters	acre	2.72	1.0000	2.72	_____
Self-Propelled	acre	0.15	1.0000	0.15	_____
Roll-Out Pipe Irr.	acre	5.80	1.0000	5.80	_____
INTEREST ON OP. CAP.	acre	14.47	1.0000	14.47	_____

TOTAL DIRECT EXPENSES				630.97	_____
FIXED EXPENSES					
Implements	acre	12.52	1.0000	12.52	_____
Tractors	acre	23.17	1.0000	23.17	_____
Harvesters	acre	10.91	1.0000	10.91	_____
Self-Propelled	acre	1.01	1.0000	1.01	_____
Roll-Out Pipe Irr.	acre	48.18	1.0000	48.18	_____

TOTAL FIXED EXPENSES				95.79	_____

TOTAL SPECIFIED EXPENSES				726.76	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.02	185.0000	1113.70	_____

TOTAL INCOME				1113.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	265.52	1.0000	265.52	_____
HERBICIDES	acre	38.06	1.0000	38.06	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	93.30	1.0000	93.30	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	51.80	1.0000	51.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1642	1.49	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.71	0.8904	10.43	_____
UNALLOCATED LABOR	hour	11.71	0.7306	8.56	_____
DIESEL FUEL	gal	3.50	19.5486	68.44	_____
REPAIR & MAINTENANCE	acre	19.96	1.0000	19.96	_____
INTEREST ON OP. CAP.	acre	14.47	1.0000	14.47	_____

TOTAL DIRECT EXPENSES				630.97	_____
RETURNS ABOVE DIRECT EXPENSES				482.73	_____
TOTAL FIXED EXPENSES				95.79	_____

TOTAL SPECIFIED EXPENSES				726.76	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				386.94	_____

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K2O)	cwt					1.3750				
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					30.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
Cultivate	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.06
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.89	0.87	1.44	0.73

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		3.50	0.61	2.28			0.27	6.66	3.44	10.10
Disk Harrow	24'		2.80	1.18	1.82			0.25	6.05	4.23	10.28
Lime (Spread)	ton	22.50						0.96	23.46		23.46
Spin Spreader	5 ton		1.44	0.46	1.31			0.14	3.35	1.83	5.18
DAP	cwt	57.60						2.45	60.05		60.05
Potash (60% K2O)	cwt	40.98						1.74	42.72		42.72
Bed-Disk (Hipper)Rd	8R-38		2.54	0.64	1.65			0.21	5.04	3.03	8.07
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68		3.68
Clarity	pt	5.42						0.15	5.57		5.57
Row Cond Rigid	26'		2.04	0.48	1.33			0.10	3.95	2.64	6.59
Plant - Rigid	8R-38		2.55	1.18	2.34			0.15	6.22	3.90	10.12
Corn Seed RR2	thous	93.30						2.31	95.61		95.61
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	74.63						1.59	76.22		76.22
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.48			0.03	1.22	1.01	2.23
Atrazine 4L	pt	6.88						0.15	7.03		7.03
Halex GT	pt	22.18						0.47	22.65		22.65
Fert Appl (Liquid)	8R-38		2.66	1.23	2.08			0.11	6.08	3.38	9.46
UAN (32% N)	cwt	92.31						1.63	93.94		93.94
Cultivate	8R-38		2.52	0.77	1.64			0.09	5.02	3.39	8.41
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	7.24						0.10	7.34		7.34
Header - Corn	8R-38		4.82	4.09	2.24			0.04	11.19	13.00	24.19
Grain Cart Corn	700 bu		0.86	0.32	0.55			0.01	1.74	1.13	2.87
Haul Corn/Field	bu	51.80						0.18	51.98		51.98
Stalk Shredder Flex	20'		2.82	2.60	1.84			0.03	7.29	3.89	11.18
Roll-Out Pipe Irr.	acre	7.92	39.33	6.25	4.45			0.82	58.77	50.92	109.69
TOTALS		504.09	68.44	19.96	24.01	0.00	14.47	630.97	95.79	726.76	

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1113.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	98.58	0.00	0.00	0.00	0.00	0.00	74.63	92.31	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	93.30	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	51.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.50	0.00	0.00	0.00	0.00	3.67	0.48	3.95	2.99	0.23	0.56	4.63
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	11.58	0.00	0.00	0.00	0.00	4.59	0.56	5.18	28.32	9.27	0.44	8.50
REPAIR & MAINTENANCE	3.16	0.00	0.00	0.00	0.00	1.66	0.15	2.00	5.05	0.84	0.09	7.01
INTEREST ON OP. CAP.	6.11	0.00	0.00	0.00	0.42	2.56	2.39	1.83	0.78	0.11	0.01	0.26
TOTAL DIRECT EXPENSES	149.43	0.00	0.00	0.00	15.42	105.78	114.27	105.27	57.05	10.45	1.10	72.20
NET INCOME	-149.43	0.00	0.00	0.00	-15.42	-105.78	-114.27	-105.27	-57.05	-10.45	-1.10	1041.50
NET INCOME TO DATE	-149.43	-149.43	-149.43	-149.43	-164.85	-270.63	-384.90	-490.17	-547.22	-557.67	-558.77	482.73

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

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 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, 2013

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Corn	4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52		
PERCENT	YIELD	UNIT	-----dollars-----										
50	92.50	bu	-187 -283	-159 -255	-131 -227	-103 -199	-75 -171	-48 -143	-20 -116	7 -88	35 -60	63 -32	91 -4
60	111.00	bu	-109 -204	-75 -171	-42 -137	-8 -104	24 -71	58 -37	91 -4	124 29	158 62	191 95	225 129
70	129.50	bu	-30 -126	8 -87	47 -48	86 -9	125 29	164 68	203 107	242 146	281 185	320 224	359 263
80	148.00	bu	47 -48	92 -3	136 40	181 85	225 130	270 174	314 219	359 263	404 308	448 352	493 397
90	166.50	bu	125 30	176 80	226 130	276 180	326 230	376 280	426 330	476 381	526 431	577 481	627 531
100	185.00	bu	204 108	259 164	315 219	371 275	427 331	482 386	538 442	594 498	649 553	705 609	761 665
110	203.50	bu	282 186	343 248	405 309	466 370	527 431	588 493	650 554	711 615	772 676	833 738	895 799
120	222.00	bu	360 265	427 331	494 398	561 465	628 532	695 599	761 666	828 732	895 799	962 866	1029 933
130	240.50	bu	439 343	511 415	584 488	656 560	728 633	801 705	873 777	946 850	1018 922	1090 995	1163 1067
140	259.00	bu	517 421	595 499	673 577	751 655	829 733	907 811	985 889	1063 967	1141 1045	1219 1123	1297 1201
150	277.50	bu	595 500	679 583	763 667	846 750	930 834	1013 917	1097 1001	1180 1084	1264 1168	1347 1251	1431 1335

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

Table 4.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 8-row 38"
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
UAN + Sulfur (28%)	cwt	20.90	2.1430	44.79	_____
UAN (32% N)	cwt	21.10	3.2815	69.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.11	26.0000	80.86	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.6196	7.26	_____
Harvesters	hour	11.71	0.1009	1.18	_____
Self-Propelled	hour	11.71	0.0176	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	11.71	0.6643	7.78	_____
DIESEL FUEL					
Tractors	gal	3.50	6.0597	21.21	_____
Harvesters	gal	3.50	1.3770	4.82	_____
Self-Propelled	gal	3.50	0.1586	0.56	_____
REPAIR & MAINTENANCE					
Implements	acre	7.09	1.0000	7.09	_____
Tractors	acre	2.98	1.0000	2.98	_____
Harvesters	acre	2.72	1.0000	2.72	_____
Self-Propelled	acre	0.15	1.0000	0.15	_____
INTEREST ON OP. CAP.	acre	10.50	1.0000	10.50	_____
TOTAL DIRECT EXPENSES				445.70	_____
FIXED EXPENSES					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	19.08	1.0000	19.08	_____
Harvesters	acre	10.91	1.0000	10.91	_____
Self-Propelled	acre	1.01	1.0000	1.01	_____
TOTAL FIXED EXPENSES				41.48	_____
TOTAL SPECIFIED EXPENSES				487.18	_____

Note: Cost of production estimates are based on 2012 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, 2013

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

TOTAL INCOME				812.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	10.75	1.0000	10.75	_____
FERTILIZERS	acre	173.54	1.0000	173.54	_____
HERBICIDES	acre	38.06	1.0000	38.06	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	80.86	1.0000	80.86	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
HAULING	acre	37.80	1.0000	37.80	_____
CUSTOM LIME	acre	22.50	1.0000	22.50	_____
HAND LABOR	hour	9.06	0.1642	1.49	_____
OPERATOR LABOR	hour	11.71	0.7382	8.65	_____
UNALLOCATED LABOR	hour	11.71	0.6643	7.78	_____
DIESEL FUEL	gal	3.50	7.5954	26.59	_____
REPAIR & MAINTENANCE	acre	12.94	1.0000	12.94	_____
INTEREST ON OP. CAP.	acre	10.50	1.0000	10.50	_____

TOTAL DIRECT EXPENSES				445.70	_____
RETURNS ABOVE DIRECT EXPENSES				367.00	_____
TOTAL FIXED EXPENSES				41.48	_____

TOTAL SPECIFIED EXPENSES				487.18	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				325.52	_____

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR2	thous					26.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.73	0.72	0.90	0.66

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		3.50	0.61	2.28		0.27	6.66	3.44	10.10
Disk Harrow	24'		2.80	1.18	1.82		0.25	6.05	4.23	10.28
Lime (Spread)	ton	22.50					0.96	23.46		23.46
Spin Spreader	5 ton		1.44	0.46	1.31		0.14	3.35	1.83	5.18
DAP	cwt	34.78					1.48	36.26		36.26
Potash (60% K20)	cwt	24.73					1.05	25.78		25.78
Bed-Disk (Hipper)Rd	8R-38		2.54	0.64	1.65		0.21	5.04	3.03	8.07
App by Air (5 gal)	appl	6.00					0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58					0.10	3.68		3.68
Clarity	pt	5.42					0.15	5.57		5.57
Row Cond Rigid	26'		2.04	0.48	1.33		0.10	3.95	2.64	6.59
Plant - Rigid	8R-38		2.55	1.18	2.34		0.15	6.22	3.90	10.12
Corn Seed RR2	thous	80.86					2.00	82.86		82.86
Custom Apply Fert	acre	7.00					0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	44.79					0.95	45.74		45.74
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.48		0.03	1.22	1.01	2.23
Atrazine 4L	pt	6.88					0.15	7.03		7.03
Halex GT	pt	22.18					0.47	22.65		22.65
Fert Appl (Liquid)	8R-38		2.66	1.23	2.08		0.11	6.08	3.38	9.46
UAN (32% N)	cwt	69.24					1.23	70.47		70.47
App by Air (3 gal)	appl	4.75					0.07	4.82		4.82
Intrepid 2F	oz	7.24					0.10	7.34		7.34
Header - Corn	8R-38		4.82	4.09	2.24		0.04	11.19	13.00	24.19
Grain Cart Corn	700 bu		0.86	0.32	0.55		0.01	1.74	1.13	2.87
Haul Corn/Field	bu	37.80					0.13	37.93		37.93
Stalk Shredder Flex	20'		2.82	2.60	1.84		0.03	7.29	3.89	11.18
TOTALS		377.75	26.59	12.94	17.92	0.00	10.50	445.70	41.48	487.18

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	812.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	0.00	44.79	69.24	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	80.86	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.06	0.00	0.00	0.00	0.00	3.67	0.48	2.08	0.00	0.00	0.00	4.63
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.28	0.00	0.00	0.00	0.00	4.59	0.56	2.66	0.00	0.00	0.00	8.50
REPAIR & MAINTENANCE	2.89	0.00	0.00	0.00	0.00	1.66	0.15	1.23	0.00	0.00	0.00	7.01
INTEREST ON OP. CAP.	4.36	0.00	0.00	0.00	0.42	2.25	1.75	1.34	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	106.60	0.00	0.00	0.00	15.42	93.03	83.79	76.55	12.16	0.00	0.00	58.15
NET INCOME	-106.60	0.00	0.00	0.00	-15.42	-93.03	-83.79	-76.55	-12.16	0.00	0.00	754.55
NET INCOME TO DATE	-106.60	-106.60	-106.60	-106.60	-122.02	-215.05	-298.84	-375.39	-387.55	-387.55	-387.55	367.00

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

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 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, 2013

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	4.51	4.81	5.11	5.41	5.71	6.02	6.32	6.62	6.92	7.22	7.52		
PERCENT	YIELD	UNIT	dollars										
50	67.50	bu	-121 -163	-101 -143	-81 -122	-61 -102	-40 -82	-20 -61	-0 -41	20 -21	40 -0	60 19	81 39
60	81.00	bu	-64 -106	-40 -81	-16 -57	8 -33	32 -8	57 15	81 39	105 64	130 88	154 113	178 137
70	94.50	bu	-7 -49	20 -20	49 7	77 36	106 64	134 93	163 121	191 149	219 178	248 206	276 235
80	108.00	bu	49 8	82 40	114 73	147 105	179 138	212 170	244 203	277 235	309 268	342 300	374 333
90	121.50	bu	106 65	143 101	179 138	216 174	252 211	289 248	326 284	362 321	399 357	435 394	472 430
100	135.00	bu	163 122	204 162	245 203	285 244	326 284	367 325	407 366	448 406	488 447	529 488	570 528
110	148.50	bu	220 179	265 224	310 268	355 313	399 358	444 402	489 447	533 492	578 537	623 581	667 626
120	162.00	bu	278 236	326 285	375 334	424 382	473 431	521 480	570 529	619 577	668 626	717 675	765 724
130	175.50	bu	335 293	388 346	440 399	493 452	546 505	599 557	652 610	705 663	757 716	810 769	863 822
140	189.00	bu	392 350	449 407	506 464	563 521	620 578	676 635	733 692	790 749	847 806	904 862	961 919
150	202.50	bu	449 408	510 469	571 530	632 591	693 651	754 712	815 773	876 834	937 895	998 956	1059 1017

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

Table 5.A Estimated costs per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
UAN + Sulfur (28%)	cwt	20.90	2.1430	44.79	_____
UAN (32% N)	cwt	21.10	3.2815	69.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
Steadfast	oz	23.95	0.3750	8.98	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.11	28.0000	87.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5682	6.65	_____
Harvesters	hour	11.71	0.1277	1.50	_____
Self-Propelled	hour	11.71	0.0176	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.1995	1.80	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR	hour	11.73	0.6422	7.54	_____
DIESEL FUEL					
Tractors	gal	3.50	4.9725	17.41	_____
Harvesters	gal	3.50	1.7419	6.10	_____
Self-Propelled	gal	3.50	0.1586	0.56	_____
REPAIR & MAINTENANCE					
Implements	acre	7.96	1.0000	7.96	_____
Tractors	acre	2.55	1.0000	2.55	_____
Harvesters	acre	3.45	1.0000	3.45	_____
Self-Propelled	acre	0.15	1.0000	0.15	_____
INTEREST ON OP. CAP.	acre	10.58	1.0000	10.58	_____
TOTAL DIRECT EXPENSES				459.49	_____
FIXED EXPENSES					
Implements	acre	11.56	1.0000	11.56	_____
Tractors	acre	16.36	1.0000	16.36	_____
Harvesters	acre	13.80	1.0000	13.80	_____
Self-Propelled	acre	1.01	1.0000	1.01	_____
TOTAL FIXED EXPENSES				42.73	_____
TOTAL SPECIFIED EXPENSES				502.22	_____

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

Table 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, 2013

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

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

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

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

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

Fertilization decisions should be based on soil tests.

Table 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Disk Heavy	20'	MFWD 170	0.097	1.00	Oct		0.09	0.09	0.09	0.08
Bed-Disk w/roller	8R-30	MFWD 170	0.093	1.00	Oct		0.09	0.09	0.09	0.08
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Mar		0.09	0.09	0.18	0.08
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-30	MFWD 170	0.098	1.00	May		0.09	0.09	0.14	0.08
UAN (32% N)	cwt					3.2815				
Spray (Broadcast)	60'	MFWD 170	0.028	1.00	May		0.02	0.02	0.04	0.02
Steadfast	oz					0.3750				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 170	0.031	1.00	Sep		0.03	0.03	0.03	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder Flex	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.71	0.69	0.92	0.64

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

Table 5.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR seed , 8-row 30",
 135 bu yield goal, All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.96	23.46		23.46
Spin Spreader	5 ton		1.29	0.45	1.31			0.13	3.18	1.74	4.92
DAP	cwt	34.78						1.48	36.26		36.26
Potash (60% K20)	cwt	24.73						1.05	25.78		25.78
Disk Heavy	20'		2.98	1.37	2.17			0.28	6.80	4.80	11.60
Bed-Disk w/roller	8R-30		2.87	0.91	2.09			0.25	6.12	4.02	10.14
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Glyphosate 3lbs a.e	pt	3.58						0.10	3.68		3.68
Clarity	pt	5.42						0.15	5.57		5.57
Plant - Rigid	8R-30		2.89	1.55	2.94			0.18	7.56	4.91	12.47
Corn Seed RR2	thous	87.08						2.16	89.24		89.24
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
UAN + Sulfur (28%)	cwt	44.79						0.95	45.74		45.74
Sprayer 600-750gal	60' 175hp		0.56	0.15	0.48			0.03	1.22	1.01	2.23
Atrazine 4L	pt	6.88						0.15	7.03		7.03
Halex GT	pt	22.18						0.47	22.65		22.65
Fert Appl (Liquid)	8R-30		3.01	1.34	2.63			0.12	7.10	3.86	10.96
UAN (32% N)	cwt	69.24						1.23	70.47		70.47
Spray (Broadcast)	60'		0.86	0.28	0.76			0.03	1.93	0.99	2.92
Steadfast	oz	8.98						0.16	9.14		9.14
App by Air (3 gal)	appl	4.75						0.07	4.82		4.82
Intrepid 2F	oz	7.24						0.10	7.34		7.34
Header - Corn	8R-30		6.10	5.13	2.85			0.05	14.13	16.37	30.50
Grain Cart Corn	500 bu		0.98	0.36	0.71			0.01	2.06	1.30	3.36
Haul Corn/Field	bu	37.80						0.13	37.93		37.93
Stalk Shredder Flex	20'		2.53	2.57	1.84			0.02	6.96	3.73	10.69
TOTALS		392.95	24.07	14.11	17.78	0.00	10.58	459.49	42.73	502.22	

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

Table 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	812.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	59.51	0.00	0.00	0.00	0.00	0.00	44.79	69.24	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	8.98	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	87.08	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.57	0.00	0.00	0.00	0.00	2.94	0.48	3.39	0.00	0.00	0.00	5.40
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.14	0.00	0.00	0.00	0.00	2.89	0.56	3.87	0.00	0.00	0.00	9.61
REPAIR & MAINTENANCE	2.73	0.00	0.00	0.00	0.00	1.55	0.15	1.62	0.00	0.00	0.00	8.06
INTEREST ON OP. CAP.	4.15	0.00	0.00	0.00	0.42	2.34	1.75	1.54	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	101.60	0.00	0.00	0.00	15.42	96.80	83.79	88.64	12.16	0.00	0.00	61.08
NET INCOME	-101.60	0.00	0.00	0.00	-15.42	-96.80	-83.79	-88.64	-12.16	0.00	0.00	751.62
NET INCOME TO DATE	-101.60	-101.60	-101.60	-101.60	-117.02	-213.82	-297.61	-386.25	-398.41	-398.41	-398.41	353.21

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

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 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, 2013

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

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

Table 6.A Estimated costs per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
App by Air (3 gal)	appl	4.75	1.0000	4.75	_____
FERTILIZERS					
DAP	cwt	32.00	1.0870	34.78	_____
Potash (60% K2O)	cwt	29.80	0.8300	24.73	_____
Fert 10-34-0	cwt	35.00	0.5000	17.50	_____
UAN (32% N)	cwt	21.10	5.0000	105.50	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	2.0000	3.58	_____
Clarity	pt	10.83	0.5000	5.42	_____
Atrazine 4L	pt	1.72	4.0000	6.88	_____
Halex GT	pt	6.16	3.6000	22.18	_____
INSECTICIDES					
Intrepid 2F	oz	1.81	4.0000	7.24	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.34	28.0000	93.52	_____
HAULING					
Haul Corn/Field	bu	0.28	135.0000	37.80	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4231	4.95	_____
Harvesters	hour	11.71	0.1277	1.50	_____
HAND LABOR					
Implements	hour	9.06	0.2283	2.06	_____
UNALLOCATED LABOR	hour	11.71	0.4957	5.81	_____
DIESEL FUEL					
Tractors	gal	3.50	3.2673	11.43	_____
Harvesters	gal	3.50	1.7419	6.10	_____
REPAIR & MAINTENANCE					
Implements	acre	7.07	1.0000	7.07	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	3.45	1.0000	3.45	_____
INTEREST ON OP. CAP.	acre	9.33	1.0000	9.33	_____
TOTAL DIRECT EXPENSES				445.81	_____
FIXED EXPENSES					
Implements	acre	9.26	1.0000	9.26	_____
Tractors	acre	10.60	1.0000	10.60	_____
Harvesters	acre	13.80	1.0000	13.80	_____
TOTAL FIXED EXPENSES				33.66	_____
TOTAL SPECIFIED EXPENSES				479.47	_____

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

Table 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, 2013

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

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

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

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

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Oct	0.5000				
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
Clarity	pt					0.5000				
Spin Spreader	5 ton	2WD 150	0.042	1.00	Mar		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
NT Plant&Pre-Rigid	8R-30	2WD 150	0.105	1.00	Mar		0.10	0.10	0.21	0.09
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	cwt					0.5000				
Spray (Broadcast)	27'	2WD 150	0.062	1.00	Apr		0.06	0.06	0.09	0.05
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-30	2WD 150	0.098	1.00	Apr		0.09	0.09	0.14	0.08
UAN (32% N)	cwt					5.0000				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	2WD 150	0.031	1.00	Sep		0.03	0.03	0.03	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder Flex	20'	2WD 150	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.55	0.55	0.77	0.49

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 6.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 8-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Lime (Spread)	ton	22.50					0.96	23.46	23.46	
App by Air (5 gal)	appl	6.00					0.17	6.17	6.17	
Glyphosate 3lbs a.e	pt	3.58					0.10	3.68	3.68	
Clarity	pt	5.42					0.15	5.57	5.57	
Spin Spreader	5 ton		1.14	0.43	1.31		0.07	2.95	4.53	
DAP	cwt	34.78					0.86	35.64	35.64	
Potash (60% K2O)	cwt	24.73					0.61	25.34	25.34	
NT Plant&Pre-Rigid	8R-30		2.86	2.08	3.31		0.20	8.45	14.31	
Corn Seed BtRR	thous	93.52					2.32	95.84	95.84	
Fert 10-34-0	cwt	17.50					0.43	17.93	17.93	
Spray (Broadcast)	27'		1.69	0.42	1.67		0.08	3.86	5.62	
Atrazine 4L	pt	6.88					0.15	7.03	7.03	
Halex GT	pt	22.18					0.47	22.65	22.65	
Fert Appl (Liquid)	8R-30		2.65	1.30	2.63		0.14	6.72	10.21	
UAN (32% N)	cwt	105.50					2.24	107.74	107.74	
App by Air (3 gal)	appl	4.75					0.07	4.82	4.82	
Intrepid 2F	oz	7.24					0.10	7.34	7.34	
Header - Corn	8R-30		6.10	5.13	2.85		0.05	14.13	16.37	
Grain Cart Corn	500 bu		0.86	0.35	0.71		0.01	1.93	3.11	
Haul Corn/Field	bu	37.80					0.13	37.93	37.93	
Stalk Shredder Flex	20'		2.23	2.54	1.84		0.02	6.63	10.05	
TOTALS		392.38	17.53	12.25	14.32	0.00	9.33	445.81	33.66	479.47

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

Table 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, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	812.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	77.01	105.50	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.00	0.00	29.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	93.52	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.80
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	4.62	4.30	0.00	0.00	0.00	0.00	5.40
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	4.00	4.34	0.00	0.00	0.00	0.00	9.19
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	2.51	1.72	0.00	0.00	0.00	0.00	8.02
INTEREST ON OP. CAP.	0.96	0.00	0.00	0.00	0.42	4.49	3.08	0.00	0.17	0.00	0.00	0.21
TOTAL DIRECT EXPENSES	23.46	0.00	0.00	0.00	15.42	186.15	148.00	0.00	12.16	0.00	0.00	60.62
NET INCOME	-23.46	0.00	0.00	0.00	-15.42	-186.15	-148.00	0.00	-12.16	0.00	0.00	752.08
NET INCOME TO DATE	-23.46	-23.46	-23.46	-23.46	-38.88	-225.03	-373.03	-373.03	-385.19	-385.19	-385.19	366.89

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

Fertilization decisions should be based on soil tests.

Intrepid application is necessary only on refuge acres.

* Lease costs are based on hourly usage costs.

Table 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, 2013

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

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

Table 7.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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

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

Table 7.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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

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

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

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

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

Table 7.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Apr		0.04	0.04	0.08	0.03
DAP	cwt					0.7600				
Potash (60% K20)	cwt					0.5800				
Disk Harrow	24'	MFWD 170	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Folding	12R-30	MFWD 170	0.062	1.00	May		0.06	0.06	0.12	0.05
Sorghum Concept	lb					6.0000				
Custom Spray	acre			1.00	May	1.0000				
Bicep II Magnum	qt					3.0000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN (32% N)	cwt					3.0690				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum/Field	bu					100.0000				
TOTALS							0.41	0.41	0.55	0.37

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

Table 7.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.96	23.46		23.46
Spin Spreader	5 ton		1.29	0.45	1.31			0.06	3.11	1.74	4.85
DAP	cwt	24.32						0.52	24.84		24.84
Potash (60% K20)	cwt	17.28						0.37	17.65		17.65
Disk Harrow	24'		2.51	1.16	1.82			0.12	5.61	4.07	9.68
Field Cultivate Fld	32'		1.43	0.58	1.04			0.06	3.11	2.94	6.05
Plant - Folding	12R-30		1.93	1.52	1.97			0.10	5.52	4.23	9.75
Sorghum Concept	lb	12.18						0.22	12.40		12.40
Custom Spray	acre	6.50						0.12	6.62		6.62
Bicep II Magnum	qt	35.46						0.63	36.09		36.09
Fert Appl (Liquid)	12R-30		2.41	1.27	2.11			0.10	5.89	3.31	9.20
UAN (32% N)	cwt	64.76						1.15	65.91		65.91
Header Wheat/Sorghum	25' Rigid		4.88	3.41	2.28			0.04	10.61	12.04	22.65
Haul Sorghum/Field	bu	28.00						0.10	28.10		28.10
TOTALS		211.00	14.45	8.39	10.53	0.00	4.55	248.92	28.33	277.25	

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

Table 7.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	572.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	41.60	64.76	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.46	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.18	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00
CUSTOM LIME	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.17	4.08	0.00	0.00	0.00	2.28
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	5.23	4.34	0.00	0.00	0.00	4.88
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.19	2.79	0.00	0.00	0.00	3.41
INTEREST ON OP. CAP.	0.96	0.00	0.00	0.00	0.00	0.00	1.13	2.32	0.00	0.00	0.00	0.14
TOTAL DIRECT EXPENSES	23.46	0.00	0.00	0.00	0.00	0.00	54.32	132.43	0.00	0.00	0.00	38.71
NET INCOME	-23.46	0.00	0.00	0.00	0.00	0.00	-54.32	-132.43	0.00	0.00	0.00	533.29
NET INCOME TO DATE	-23.46	-23.46	-23.46	-23.46	-23.46	-23.46	-77.78	-210.21	-210.21	-210.21	-210.21	323.08

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

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2013

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

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

Table 8.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.0000	18.00	_____
FERTILIZERS					
DAP	cwt	32.00	1.0000	32.00	_____
Potash (60% K2O)	cwt	29.80	0.7500	22.35	_____
Fert 41-0-0-4	cwt	26.30	2.8000	73.64	_____
FUNGICIDES					
Quilt	pt	19.37	0.8750	16.95	_____
HERBICIDES					
Axiom 68DF	oz	1.73	10.0000	17.30	_____
Axial	oz	0.98	16.4000	16.07	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.37	90.0000	33.30	_____
ADJUVANTS					
Surfactant	pt	3.50	1.6000	5.60	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	2.8000	18.20	_____
HAULING					
Haul Wheat/Field	bu	0.28	70.0000	19.60	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.5000	22.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.2648	3.10	_____
Harvesters	hour	11.71	0.1021	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	11.71	0.2936	3.44	_____
DIESEL FUEL					
Tractors	gal	3.50	2.3178	8.12	_____
Harvesters	gal	3.50	1.3935	4.88	_____
REPAIR & MAINTENANCE					
Implements	acre	3.37	1.0000	3.37	_____
Tractors	acre	1.19	1.0000	1.19	_____
Harvesters	acre	2.76	1.0000	2.76	_____
INTEREST ON OP. CAP.	acre	7.53	1.0000	7.53	_____
TOTAL DIRECT EXPENSES				332.33	_____
FIXED EXPENSES					
Implements	acre	7.37	1.0000	7.37	_____
Tractors	acre	7.62	1.0000	7.62	_____
Harvesters	acre	11.04	1.0000	11.04	_____
TOTAL FIXED EXPENSES				26.03	_____
TOTAL SPECIFIED EXPENSES				358.36	_____

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

Fertilization decisions should be based on soil tests.

Table 8.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

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

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

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

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

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

Table 8.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
						-----hours-----					
Lime (Spread)	ton			0.25	Sep	0.5000					
Disk Harrow	24'	MFWD 170	0.081	1.00	Sep		0.08	0.08	0.08	0.06	
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Sep		0.04	0.04	0.08	0.03	
DAP	cwt					1.0000					
Potash (60% K2O)	cwt					0.7500					
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Sep		0.04	0.04	0.04	0.03	
Grain Drill	20'	MFWD 170	0.094	1.00	Oct		0.09	0.09	0.18	0.07	
Wheat Seed Private	lb					90.0000					
App by Air (5 gal)	appl			1.00	Nov	1.0000					
Axiom 68DF	oz					10.0000					
Surfactant	pt					1.5000					
App by Air (5 gal)	appl			1.00	Jan	1.0000					
Axial	oz					16.4000					
Surfactant	pt					0.1000					
App Fert by Air	cwt			1.00	Feb	1.4000					
Fert 41-0-0-4	cwt					1.4000					
App Fert by Air	cwt			1.00	Mar	1.4000					
Fert 41-0-0-4	cwt					1.4000					
App by Air (5 gal)	appl			1.00	Apr	1.0000					
Quilt	pt					0.8750					
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.10	0.08	
Haul Wheat/Field	bu					70.0000					
TOTALS								0.36	0.36	0.50	0.29

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

Table 8.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	22.50						0.80	23.30		23.30
Disk Harrow	24'		2.51	1.16	1.73			0.19	5.59	4.07	9.66
Spin Spreader	5 ton		1.29	0.45	1.26			0.11	3.11	1.74	4.85
DAP	cwt	32.00						1.13	33.13		33.13
Potash (60% K2O)	cwt	22.35						0.79	23.14		23.14
Field Cultivate Fld	32'		1.43	0.58	0.99			0.11	3.11	2.94	6.05
Grain Drill	20'		2.89	1.72	2.83			0.24	7.68	5.24	12.92
Wheat Seed Private	lb	33.30						1.06	34.36		34.36
App by Air (5 gal)	appl	6.00						0.17	6.17		6.17
Axiom 68DF	oz	17.30						0.49	17.79		17.79
Surfactant	pt	5.25						0.15	5.40		5.40
App by Air (5 gal)	appl	6.00						0.13	6.13		6.13
Axial	oz	16.07						0.34	16.41		16.41
Surfactant	pt	0.35						0.01	0.36		0.36
App Fert by Air	cwt	9.10						0.16	9.26		9.26
Fert 41-0-0-4	cwt	36.82						0.65	37.47		37.47
App Fert by Air	cwt	9.10						0.13	9.23		9.23
Fert 41-0-0-4	cwt	36.82						0.52	37.34		37.34
App by Air (5 gal)	appl	6.00						0.06	6.06		6.06
Quilt	pt	16.95						0.18	17.13		17.13
Header Wheat/Sorghum	25' Rigid		4.88	3.41	2.16			0.04	10.49	12.04	22.53
Haul Wheat/Field	bu	19.60						0.07	19.67		19.67
TOTALS		295.51	13.00	7.32	8.97	0.00		7.53	332.33	26.03	358.36

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

Table 8.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2013

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	547.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	6.00	0.00	0.00	6.00	0.00	0.00
FERTILIZERS	0.00	0.00	54.35	0.00	0.00	0.00	0.00	36.82	36.82	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.95	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	17.30	0.00	16.07	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	5.25	0.00	0.35	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.10	9.10	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.60
CUSTOM LIME	0.00	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	3.98	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	5.23	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88
REPAIR & MAINTENANCE	0.00	0.00	2.19	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.41
INTEREST ON OP. CAP.	0.00	0.00	3.13	1.30	0.81	0.00	0.48	0.81	0.65	0.24	0.00	0.11
TOTAL DIRECT EXPENSES	0.00	0.00	91.38	42.04	29.36	0.00	22.90	46.73	46.57	23.19	0.00	30.16
NET INCOME	0.00	0.00	-91.38	-42.04	-29.36	0.00	-22.90	-46.73	-46.57	-23.19	0.00	517.24
NET INCOME TO DATE	0.00	0.00	-91.38	-133.42	-162.78	-162.78	-185.68	-232.41	-278.98	-302.17	-302.17	215.07

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

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2013

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

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

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2013

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (250-299 hp)	265 hp	259,000	300	8	13.64	11.60	47.74	26.97	86.31	108.04	194.36
Combine (300-349 hp)	325 hp	298,000	300	8	16.73	11.60	58.55	31.04	101.19	124.31	225.51
Combine (350-399 hp)	355 hp	316,000	300	8	18.27	11.60	63.94	32.91	108.46	131.82	240.28
Combine (400-449 hp)	425 hp	339,000	300	8	21.87	11.60	76.56	35.31	123.47	141.42	264.90
Combine (450-499hp)	475 hp	356,000	300	8	24.44	11.60	85.57	37.08	134.25	148.51	282.76
Cotton Stripper	173 hp	170,000	200	8	8.08	11.60	28.28	26.56	66.44	106.37	172.82
Tractor(20-39hp)CB	MFWD 30	28,100	600	8	1.54	11.60	5.40	0.87	17.88	5.37	23.25
Tractor(20-39hp)RB	MFWD 30	17,400	600	8	1.54	11.60	5.40	0.54	17.54	3.32	20.87
Tractor(40-59hp)CB	2WD 50	35,200	600	8	2.57	11.60	9.00	1.10	21.70	6.73	28.44
Tractor(40-59hp)CB	MFWD 50	36,700	600	8	2.57	11.60	9.00	1.14	21.75	7.02	28.77
Tractor(40-59hp)RB	2WD 50	20,500	600	8	2.57	11.60	9.00	0.64	21.24	3.92	25.16
Tractor(40-59hp)RB	MFWD 50	29,000	600	8	2.57	11.60	9.00	0.90	21.51	5.54	27.06
Tractor(60-89hp)CB	2WD 75	45,300	600	8	3.86	11.60	13.51	1.41	26.52	8.66	35.19
Tractor(60-89hp)CB	MFWD 75	49,400	600	8	3.86	11.60	13.51	1.54	26.65	9.44	36.10
Tractor(60-89hp)RB	2WD 75	33,600	600	8	3.86	11.60	13.51	1.05	26.16	6.42	32.58
Tractor(60-89hp)RB	MFWD 75	40,300	600	8	3.86	11.60	13.51	1.25	26.37	7.70	34.07
Tractor(90-119hp)CB	2WD 105	57,700	600	8	5.40	11.60	18.91	1.80	32.31	11.03	43.35
Tractor(90-119hp)CB	MFWD 105	74,700	600	8	5.40	11.60	18.91	2.33	32.85	14.28	47.13
Tractor(90-119hp)RB	2WD 105	45,800	600	8	5.40	11.60	18.91	1.43	31.94	8.76	40.70
Tractor(90-119hp)RB	MFWD 105	51,800	600	8	5.40	11.60	18.91	1.61	32.13	9.90	42.04
Tractor(120-139hp)CB	2WD 130	82,300	600	8	6.69	11.60	23.41	2.57	37.59	15.74	53.33
Tractor(120-139hp)CB	MFWD 130	101,000	600	8	6.69	11.60	23.41	3.15	38.17	19.32	57.49
Tractor(140-159hp)CB	2WD 150	131,000	600	8	7.72	11.60	27.02	4.09	42.71	25.05	67.77
Tractor(140-159hp)CB	MFWD 150	133,000	600	8	7.72	11.60	27.02	4.15	42.77	25.44	68.22
Tractor(160-179hp)CB	MFWD 170	144,000	600	8	8.75	11.60	30.62	4.50	46.72	28.79	75.51
Tractor(180-199hp)CB	MFWD 190	154,000	600	8	9.77	11.60	34.22	4.81	50.64	30.79	81.43
Tractor(200-249hp)CB	MFWD 225	208,000	600	8	11.58	11.60	40.53	6.50	58.63	41.58	100.22
Tractor(200-249hp)CB	Track 225	258,000	600	8	11.58	11.60	40.53	8.06	60.19	51.58	111.78
Tractor(250-349hp)CB	4WD 300	262,000	600	8	15.44	11.60	54.04	8.18	73.83	52.38	126.21
Tractor(250-349hp)CB	MFWD 300	247,000	600	8	15.44	11.60	54.04	7.71	73.36	49.38	122.74
Tractor(250-349hp)CB	Track 300	260,000	600	8	15.44	11.60	54.04	8.12	73.77	51.98	125.75
Tractor(350-449hp)CB	4WD 400	300,000	600	8	20.58	11.60	72.06	9.37	93.03	59.98	153.01
Tractor(350-449hp)CB	Track 400	345,000	600	8	20.58	11.60	72.06	10.78	94.44	68.97	163.42
Tractor(450-550hp)CB	4WD 500	343,000	600	8	25.73	11.60	90.07	10.71	112.39	68.57	180.97
Tractor(450-550hp)CB	Track 500	376,000	600	8	25.73	11.60	90.07	11.75	113.42	75.17	188.60
Utility Vehicle	800 CC	7,400	200	8	0.70	11.60	2.38	1.15	15.13	4.63	19.76
Utility Vehicle-mule	600 CC	7,100	200	8	0.50	11.60	1.70	1.10	14.40	4.44	18.85

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2013

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

Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Stalk Shredder-Flail	18'	MFWD 150	24,900	200	10	0.091	1.06	2.47	1.99	0.38	5.91	1.22	2.33	9.47
Stalk Shredder-Flail	20'	MFWD 150	25,600	200	10	0.082	0.95	2.22	1.84	0.34	5.37	1.13	2.09	8.61
Stalk Shredder-Flail	25'	MFWD 150	34,100	200	10	0.066	0.76	1.78	1.96	0.27	4.79	1.20	1.67	7.68
Strip Till	8R38/12R30	MFWD 225	32,000	150	10	0.061	0.71	2.49	0.85	0.40	4.46	1.41	2.56	8.44
Subsoiler	3 shank	MFWD 190	3,390	100	15	0.204	2.37	6.99	0.23	0.98	10.57	0.58	6.29	17.45
Subsoiler	4 shank	MFWD 225	7,610	100	15	0.153	1.78	6.22	0.38	0.99	9.39	0.98	6.38	16.77
Subsoiler	5 shank	MFWD 225	7,300	100	15	0.122	1.41	4.95	0.29	0.79	7.47	0.75	5.08	13.31
Subsoiler low-till	6 shank	MFWD 225	10,200	100	15	0.102	1.18	4.14	0.34	0.66	6.33	0.87	4.24	11.46
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.88	3.10	0.50	0.49	4.98	1.26	3.18	9.43

Notes:

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

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

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

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

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

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.71
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06
CROP ENTERPRISE	UNALLOCATED LABOR MULTIPLIERS (%)	
Corn		90
Cotton		80
Grain Sorghum		90
Peanuts		80
Rice		90
Soybeans		90
Wheat		80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2013

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

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

^b The basis is computed by subtracting the 2001-2012 average near futures contract month closings in October from the daily spot cash prices reported in October. Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

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

^d Average Mississippi loan rate for the 2012 crop year for soybeans, corn, grain sorghum, and wheat. 2012 Mississippi base loan rate for the Delta area for cotton. 2012 Mississippi loan rate for long grain rice. 2012 national average loan rate for peanuts.

^e Price used in the 2013 MAFES Planning Budgets.

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

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, 2013

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			12.44				0.22	12.66	50.99
Well & Pump, 1/4 CP	each			2.89				0.05	2.94	8.76
Engine, 1/4 CP, 65	each									8.68
June Irr. 3app@.75"	ac-in		11.76	1.19				0.23	13.18	13.18
July Irr. 4app@.75"	ac-in		15.68	1.59				0.24	17.51	17.51
Aug Irr. 3app@.75"	ac-in		11.76	1.19				0.14	13.09	13.09
TOTALS		0.00	39.20	19.30	1.84	0.00	0.91	61.25	68.43	129.68

Note: Cost of production estimates are based on 2012 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, 2013

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		1.30	0.27	0.44			0.09	2.10	1.40	3.50
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.22	0.04	0.11			0.01	0.38	0.17	0.55
Roll-Out Pipe	ft	7.92						0.11	8.03		8.03
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.29	0.05	0.38			0.01	0.73	0.47	1.20
IRRIGATE LABOR	hour				1.81			0.03	1.84		1.84
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.44	0.09	0.56			0.01	1.10	0.70	1.80
Land Forming (\$390)	each									28.37	28.37
Well & Pump, Furrow	each			2.44				0.03	2.47	7.39	9.86
Main Line Pipe	each									5.10	5.10
Engine, RPF, Corn	each									7.32	7.32
1st June Irrigation	ac-in		9.27	0.84				0.14	10.25		10.25
2nd June Irrigation	ac-in		9.27	0.84				0.14	10.25		10.25
3rd June Irrigation	ac-in		9.27	0.84				0.14	10.25		10.25
1st July Irrigation	ac-in		9.27	0.84				0.11	10.22		10.22
TOTALS		7.92	39.33	6.25	4.45	0.00	0.82	58.77	50.92	109.69	

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

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