SOYBEANS
2015
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2014-02

October 2014

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses**." Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2015 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses**."

Acknowledgments

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

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

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

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Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

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

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2014. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

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

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

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

Estimates of Fixed Costs

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

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

where:

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

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

$$+ (SV \; x \; IIR)$$

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

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

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2014 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, and 10. 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
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

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

TOTAL DIRECT EXPENSES				281.45	_____
FIXED EXPENSES					
Implements	acre	9.30	1.0000	9.30	_____
Tractors	acre	11.85	1.0000	11.85	_____
Harvesters	acre	11.86	1.0000	11.86	_____

TOTAL FIXED EXPENSES				33.01	_____

TOTAL SPECIFIED EXPENSES				314.46	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 1.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	42.0000	405.72	_____
TOTAL INCOME				405.72	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	17.50	1.0000	17.50	_____
HERBICIDES	acre	43.20	1.0000	43.20	_____
INSECTICIDES	acre	8.16	1.0000	8.16	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.72	1.0000	0.72	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
OPERATOR LABOR	hour	12.55	0.4745	5.95	_____
UNALLOCATED LABOR	hour	12.52	0.4271	5.35	_____
DIESEL FUEL	gal	3.20	5.0354	16.12	_____
REPAIR & MAINTENANCE	acre	9.77	1.0000	9.77	_____
INTEREST ON OP. CAP.	acre	6.74	1.0000	6.74	_____
TOTAL DIRECT EXPENSES				281.45	_____
RETURNS ABOVE DIRECT EXPENSES				124.27	_____
TOTAL FIXED EXPENSES				33.01	_____
TOTAL SPECIFIED EXPENSES				314.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				91.26	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 1.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Headline EC	oz					3.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.47	0.47	0.61	0.42

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 1.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 1.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	405.72
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	6.00	12.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	10.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.38	0.00	12.30	21.52	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	5.42	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	5.79	0.00	0.00	0.00	0.00	0.00	2.22	1.60	0.00	0.00	0.00	2.94
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.11	0.00	0.00	0.00	0.00	0.00	2.12	1.76	0.00	0.00	0.00	5.13
REPAIR & MAINTENANCE	2.87	0.00	0.00	0.00	0.00	0.00	2.09	0.56	0.00	0.00	0.00	4.25
INTEREST ON OP. CAP.	3.42	0.00	0.00	0.00	0.45	0.00	1.90	0.47	0.00	0.21	0.20	0.09
TOTAL DIRECT EXPENSES	81.01	0.00	0.00	0.00	15.83	0.00	88.02	25.91	0.00	19.81	27.12	23.75
NET INCOME	-81.01	0.00	0.00	0.00	-15.83	0.00	-88.02	-25.91	0.00	-19.81	-27.12	381.97
NET INCOME TO DATE	-81.01	-81.01	-81.01	-81.01	-96.84	-96.84	-184.86	-210.77	-210.77	-230.58	-257.70	124.27

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Delta Area, Mississippi, 2015

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

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

Table 2.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.2500	25.50	
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.50	1.0000	24.50	
Potash (60% K2O)	cwt	23.60	1.2000	28.32	
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	
Quadris	oz	2.86	3.0000	8.58	
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	6.0000	13.50	
2,4-D Amine 4	pt	2.44	2.0000	4.88	
Valor SX	oz	6.15	2.0000	12.30	
Prefix	pt	6.26	2.0000	12.52	
INSECTICIDES					
Karate Z	oz	2.85	0.9600	2.74	
Acephate 90SP	lb	7.23	0.7500	5.42	
Intrepid 2F	oz	2.00	1.0000	2.00	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	
ADJUVANTS					
Surfactant	pt	3.60	0.2250	0.81	
HAULING					
Haul Soybeans	bu	0.27	65.0000	17.55	
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	
OPERATOR LABOR					
Tractors	hour	12.55	0.5134	6.45	
Harvesters	hour	12.55	0.1021	1.28	
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	
Implements	hour	9.06	0.0625	0.57	
HAND LABOR					
Implements	hour	9.06	0.1379	1.25	
UNALLOCATED LABOR	hour	12.53	0.4833	6.06	
DIESEL FUEL					
Tractors	gal	3.20	4.8957	15.68	
Harvesters	gal	3.20	1.3935	4.46	
Roll-Out Pipe Irr.	gal	3.20	7.3316	23.46	
REPAIR & MAINTENANCE					
Implements	acre	5.35	1.0000	5.35	
Tractors	acre	2.60	1.0000	2.60	
Harvesters	acre	3.10	1.0000	3.10	
Roll-Out Pipe Irr.	acre	6.22	1.0000	6.22	
INTEREST ON OP. CAP.	acre	7.61	1.0000	7.61	
TOTAL DIRECT EXPENSES				339.19	
FIXED EXPENSES					
Implements	acre	11.34	1.0000	11.34	
Tractors	acre	15.76	1.0000	15.76	
Harvesters	acre	11.86	1.0000	11.86	
Roll-Out Pipe Irr.	acre	49.67	1.0000	49.67	
TOTAL FIXED EXPENSES				88.63	
TOTAL SPECIFIED EXPENSES				427.82	

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 2.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	65.0000	627.90	
TOTAL INCOME				627.90	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	25.50	1.0000	25.50	
HARVEST AIDS	acre	8.78	1.0000	8.78	
FERTILIZERS	acre	52.82	1.0000	52.82	
FUNGICIDES	acre	15.22	1.0000	15.22	
HERBICIDES	acre	43.20	1.0000	43.20	
INSECTICIDES	acre	10.16	1.0000	10.16	
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	
SEED/PLANTS	acre	59.50	1.0000	59.50	
ADJUVANTS	acre	0.81	1.0000	0.81	
HAULING	acre	17.55	1.0000	17.55	
CUSTOM LIME	acre	9.00	1.0000	9.00	
INOCULANT	acre	1.25	1.0000	1.25	
HAND LABOR	hour	9.06	0.1379	1.25	
IRRIGATE LABOR	hour	9.06	0.3625	3.30	
OPERATOR LABOR	hour	12.55	0.6155	7.73	
UNALLOCATED LABOR	hour	12.53	0.4833	6.06	
DIESEL FUEL	gal	3.20	13.6209	43.60	
REPAIR & MAINTENANCE	acre	17.27	1.0000	17.27	
INTEREST ON OP. CAP.	acre	7.61	1.0000	7.61	
TOTAL DIRECT EXPENSES				339.19	
RETURNS ABOVE DIRECT EXPENSES				288.71	
TOTAL FIXED EXPENSES				88.63	
TOTAL SPECIFIED EXPENSES				427.82	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				200.08	

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 2.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed-Roll-Fold.	12R-30	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Apr		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Quadris	oz					3.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			0.25	Aug	0.2500				
Intrepid 2F	oz					1.0000				
Surfactant	pt					0.0250				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					65.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.61	0.61	1.11	0.48

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 2.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests**. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 2.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2015

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

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

Table 3.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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

TOTAL DIRECT EXPENSES				276.71	_____
FIXED EXPENSES					
Implements	acre	9.79	1.0000	9.79	_____
Tractors	acre	12.50	1.0000	12.50	_____
Harvesters	acre	11.86	1.0000	11.86	_____

TOTAL FIXED EXPENSES				34.15	_____

TOTAL SPECIFIED EXPENSES				310.86	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 3.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	30.0000	289.80	
TOTAL INCOME				289.80	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.00	1.0000	21.00	
HARVEST AIDS	acre	8.78	1.0000	8.78	
FERTILIZERS	acre	52.82	1.0000	52.82	
FUNGICIDES	acre	19.51	1.0000	19.51	
HERBICIDES	acre	33.82	1.0000	33.82	
INSECTICIDES	acre	15.52	1.0000	15.52	
SEED/PLANTS	acre	59.50	1.0000	59.50	
ADJUVANTS	acre	0.99	1.0000	0.99	
HAULING	acre	8.10	1.0000	8.10	
CUSTOM LIME	acre	9.00	1.0000	9.00	
INOCULANT	acre	1.25	1.0000	1.25	
HAND LABOR	hour	9.06	0.1379	1.25	
OPERATOR LABOR	hour	12.55	0.4950	6.21	
UNALLOCATED LABOR	hour	12.52	0.4455	5.58	
DIESEL FUEL	gal	3.20	5.2355	16.76	
REPAIR & MAINTENANCE	acre	10.12	1.0000	10.12	
INTEREST ON OP. CAP.	acre	6.50	1.0000	6.50	
TOTAL DIRECT EXPENSES				276.71	
RETURNS ABOVE DIRECT EXPENSES				13.09	
TOTAL FIXED EXPENSES				34.15	
TOTAL SPECIFIED EXPENSES				310.86	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-21.06	

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 3.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Nov		0.04	0.04	0.04	0.03
Disk Harrow	24'	MFWD 190	0.081	0.25	Nov		0.02	0.02	0.02	0.01
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			0.75	Jul	0.7500				
Quadris	oz					4.5000				
Karate Z	oz					1.4400				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			0.75	Aug	0.7500				
Intrepid 2F	oz					3.0000				
Surfactant	pt					0.0750				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					30.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.49	0.49	0.63	0.44

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 3.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 3.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
Soybeans, May-planted, RR, 12R 30"
Delta Area, Mississippi, 2015

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

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

Table 4.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	4.0000	24.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 3L	gal	3.50	1.0000	3.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.50	1.0000	24.50	_____
Potash (60% K2O)	cwt	23.60	1.2000	28.32	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	6.0000	17.16	_____
HERBICIDES					
Valor SX	oz	6.15	2.0000	12.30	_____
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Prefix	pt	6.26	2.0000	12.52	_____
INSECTICIDES					
Karate Z	oz	2.85	1.9200	5.47	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	4.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.3000	1.08	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2000	9.00	_____
INOCULANT					
Nitrastick S	lbseed	0.02	50.0000	1.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.6162	7.74	_____
Harvesters	hour	12.55	0.1021	1.28	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.1379	1.25	_____
UNALLOCATED LABOR	hour	12.52	0.4639	5.81	_____
DIESEL FUEL					
Tractors	gal	3.20	5.6297	18.02	_____
Harvesters	gal	3.20	1.3935	4.46	_____
Contour Flood Irr.	gal	3.20	10.9974	35.19	_____
REPAIR & MAINTENANCE					
Implements	acre	5.87	1.0000	5.87	_____
Tractors	acre	2.98	1.0000	2.98	_____
Harvesters	acre	3.10	1.0000	3.10	_____
Contour Flood Irr.	acre	12.44	1.0000	12.44	_____
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	_____

TOTAL DIRECT EXPENSES				358.11	_____
FIXED EXPENSES					
Implements	acre	12.25	1.0000	12.25	_____
Tractors	acre	18.03	1.0000	18.03	_____
Harvesters	acre	11.86	1.0000	11.86	_____
Contour Flood Irr.	acre	36.79	1.0000	36.79	_____

TOTAL FIXED EXPENSES				78.93	_____

TOTAL SPECIFIED EXPENSES				437.04	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 4.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	53.0000	511.98	_____
TOTAL INCOME				511.98	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	8.78	1.0000	8.78	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	23.80	1.0000	23.80	_____
HERBICIDES	acre	33.82	1.0000	33.82	_____
INSECTICIDES	acre	18.89	1.0000	18.89	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	1.08	1.0000	1.08	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1379	1.25	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	12.55	0.7183	9.02	_____
UNALLOCATED LABOR	hour	12.52	0.4639	5.81	_____
DIESEL FUEL	gal	3.20	18.0207	57.67	_____
REPAIR & MAINTENANCE	acre	24.39	1.0000	24.39	_____
INTEREST ON OP. CAP.	acre	7.65	1.0000	7.65	_____
TOTAL DIRECT EXPENSES				358.11	_____
RETURNS ABOVE DIRECT EXPENSES				153.87	_____
TOTAL FIXED EXPENSES				78.93	_____
TOTAL SPECIFIED EXPENSES				437.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				74.94	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 4.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Disk Harrow	24'	MFWD 190	0.081	1.00	Nov		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Quadris	oz					6.0000				
Karate Z	oz					1.9200				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Paraquat	oz					16.0000				
Sodium Chlorate 3L	gal					1.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					53.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.71	0.71	1.16	0.46

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 4.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests**. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 4.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	511.98
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	12.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78	0.00
FERTILIZERS	52.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	17.16	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	29.32	4.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.47	13.42	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.72	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
LABOR	3.34	0.00	0.00	0.00	0.00	1.95	4.95	2.52	1.52	1.52	0.16	2.94
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.88	0.00	0.00	0.00	0.00	2.56	4.95	14.50	13.17	13.17	0.31	5.13
REPAIR & MAINTENANCE	1.88	0.00	0.00	0.00	0.00	1.40	3.10	8.07	2.81	2.81	0.07	4.25
INTEREST ON OP. CAP.	3.13	0.00	0.00	0.00	0.00	0.15	2.42	0.57	0.67	0.49	0.12	0.10
TOTAL DIRECT EXPENSES	74.05	0.00	0.00	0.00	0.00	6.06	112.13	32.41	46.80	43.77	16.16	26.73
NET INCOME	-74.05	0.00	0.00	0.00	0.00	-6.06	-112.13	-32.41	-46.80	-43.77	-16.16	485.25
NET INCOME TO DATE	-74.05	-74.05	-74.05	-74.05	-74.05	-80.11	-192.24	-224.65	-271.45	-315.22	-331.38	153.87

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
Soybeans, May-planted, RR, 12R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2015

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

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

Table 5.A Estimated costs per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 5.B Summary of estimated costs and returns per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	45.0000	434.70	_____
TOTAL INCOME				434.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	23.80	1.0000	23.80	_____
HERBICIDES	acre	42.91	1.0000	42.91	_____
INSECTICIDES	acre	23.38	1.0000	23.38	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.36	1.0000	0.36	_____
HAULING	acre	12.15	1.0000	12.15	_____
CUSTOM LIME	acre	9.00	1.0000	9.00	_____
INOCULANT	acre	1.25	1.0000	1.25	_____
HAND LABOR	hour	9.06	0.1309	1.18	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	12.55	0.2755	3.46	_____
UNALLOCATED LABOR	hour	12.49	0.2369	2.96	_____
DIESEL FUEL	gal	3.20	19.4945	62.39	_____
REPAIR & MAINTENANCE	acre	16.76	1.0000	16.76	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
TOTAL DIRECT EXPENSES				337.15	_____
RETURNS ABOVE DIRECT EXPENSES				97.55	_____
TOTAL FIXED EXPENSES				55.41	_____
TOTAL SPECIFIED EXPENSES				392.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				42.14	_____

Note: Cost of production estimates are based on 2014 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 5.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.0000				
Potash (60% K2O)	cwt					1.2000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Nitrastick S	lbseed					50.0000				
Valor SX	oz					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Paraquat	oz					48.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Quadris	oz					6.0000				
Karate Z	oz					1.7000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
Baythroid XL	oz					2.1300				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					45.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.27	0.27	0.45	0.23

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 5.D Estimated costs for field operations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

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

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests**. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.

Table 5.E Estimated monthly income and expense flows per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	434.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
FERTILIZERS	52.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	17.16	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.66	2.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.38	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.15
CUSTOM LIME	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
LABOR	1.36	0.00	0.00	0.00	0.00	0.00	0.34	3.01	0.44	0.04	0.00	2.88
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.32	0.00	0.00	0.00	0.00	0.00	0.00	18.75	21.44	15.75	0.00	5.13
REPAIR & MAINTENANCE	0.48	0.00	0.00	0.00	0.00	0.00	0.00	10.70	0.82	0.51	0.00	4.25
INTEREST ON OP. CAP.	2.87	0.00	0.00	0.00	0.00	0.00	0.01	2.59	0.36	0.84	0.00	0.09
TOTAL DIRECT EXPENSES	67.85	0.00	0.00	0.00	0.00	0.00	0.35	143.10	25.31	76.04	0.00	24.50
NET INCOME	-67.85	0.00	0.00	0.00	0.00	0.00	-0.35	-143.10	-25.31	-76.04	0.00	410.20
NET INCOME TO DATE	-67.85	-67.85	-67.85	-67.85	-67.85	-67.85	-68.20	-211.30	-236.61	-312.65	-312.65	97.55

Note: Cost of production estimates are based on 2014 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
Soybeans after wheat, RR, 12R 30"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2015

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

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

Table 6.A Estimated costs per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.0000	12.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.50	0.6600	16.17	_____
Potash (60% K2O)	cwt	23.60	1.0000	23.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Headline EC	oz	3.62	3.0000	10.86	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	6.0000	13.50	_____
2,4-D Amine 4	pt	2.44	2.0000	4.88	_____
Valor SX	oz	6.15	2.0000	12.30	_____
Dual Magnum	pt	13.49	1.0000	13.49	_____
Tricor DF	lb	15.28	0.3000	4.58	_____
INSECTICIDES					
Acephate 90SP	lb	7.23	0.7500	5.42	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.2000	0.72	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2500	11.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.3690	4.63	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1543	1.40	_____
UNALLOCATED LABOR	hour	12.54	0.4240	5.32	_____
DIESEL FUEL					
Tractors	gal	3.20	3.6087	11.55	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	4.59	1.0000	4.59	_____
Tractors	acre	1.93	1.0000	1.93	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	6.07	1.0000	6.07	_____

TOTAL DIRECT EXPENSES				256.13	_____
FIXED EXPENSES					
Implements	acre	8.88	1.0000	8.88	_____
Tractors	acre	11.75	1.0000	11.75	_____
Harvesters	acre	11.86	1.0000	11.86	_____

TOTAL FIXED EXPENSES				32.49	_____

TOTAL SPECIFIED EXPENSES				288.62	_____

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

Table 6.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	43.0000	415.38	_____
TOTAL INCOME				415.38	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	12.00	1.0000	12.00	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	39.77	1.0000	39.77	_____
FUNGICIDES	acre	17.50	1.0000	17.50	_____
HERBICIDES	acre	48.75	1.0000	48.75	_____
INSECTICIDES	acre	5.42	1.0000	5.42	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.72	1.0000	0.72	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	11.25	1.0000	11.25	_____
HAND LABOR	hour	9.06	0.1543	1.40	_____
OPERATOR LABOR	hour	12.55	0.4711	5.91	_____
UNALLOCATED LABOR	hour	12.54	0.4240	5.32	_____
DIESEL FUEL	gal	3.20	5.0023	16.01	_____
REPAIR & MAINTENANCE	acre	9.62	1.0000	9.62	_____
INTEREST ON OP. CAP.	acre	6.07	1.0000	6.07	_____
TOTAL DIRECT EXPENSES				256.13	_____
RETURNS ABOVE DIRECT EXPENSES				159.25	_____
TOTAL FIXED EXPENSES				32.49	_____
TOTAL SPECIFIED EXPENSES				288.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				126.76	_____

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

Table 6.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.25	Oct	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Folding	12R-30	MFWD 190	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Dual Magnum	pt					1.0000				
Tricor DF	lb					0.3000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Headline EC	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Paraquat	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.47	0.47	0.62	0.42

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

Table 6.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Lime (Spread)	ton	11.25					0.50	11.75		11.75
Spin Spreader	5 ton		1.32	0.48	1.39		0.14	3.33	1.84	5.17
Phosphorus(46% P2O5)	cwt	16.17					0.71	16.88		16.88
Potash (60% K2O)	cwt	23.60					1.04	24.64		24.64
Disk Harrow	24'		2.56	1.40	1.95		0.26	6.17	4.58	10.75
Field Cultivate Fld	24'		1.95	0.73	1.48		0.18	4.34	3.64	7.98
App by Air (5 gal)	appl	6.00					0.15	6.15		6.15
Glyphosate 3lbs a.e	pt	4.50					0.12	4.62		4.62
2,4-D Amine 4	pt	4.88					0.13	5.01		5.01
Valor SX	oz	12.30					0.32	12.62		12.62
Plant - Folding	12R-30		1.97	1.78	2.07		0.13	5.95	4.67	10.62
Soybean Seed RR2	lb	59.50					1.31	60.81		60.81
CruiserMaxx	oz	6.64					0.15	6.79		6.79
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.08	4.58		4.58
Dual Magnum	pt	13.49					0.25	13.74		13.74
Tricor DF	lb	4.58					0.08	4.66		4.66
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.08	4.58		4.58
Spray (Broadcast)	60'		0.44	0.14	0.40		0.01	0.99	0.53	1.52
Headline EC	oz	10.86					0.12	10.98		10.98
Spray (Broadcast)	60'		0.88	0.28	0.80		0.01	1.97	1.05	3.02
Acephate 90SP	lb	5.42					0.04	5.46		5.46
App by Air (5 gal)	appl	6.00					0.04	6.04		6.04
Paraquat	oz	5.28					0.04	5.32		5.32
Surfactant	pt	0.72					0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43		0.04	10.87	13.07	23.94
Haul Soybeans	bu	11.61					0.04	11.65		11.65
Grain Cart Soybean	700 bu		0.67	0.31	0.51		0.01	1.50	1.01	2.51
TOTALS		211.80	16.01	9.62	12.63	0.00	6.07	256.13	32.49	288.62

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

Table 6.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	415.38
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	39.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	10.86	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	21.68	0.00	27.07	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.82	0.00	0.00	0.00	0.00	0.00	2.07	1.60	0.00	0.40	0.80	2.94
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.83	0.00	0.00	0.00	0.00	0.00	1.97	1.76	0.00	0.44	0.88	5.13
REPAIR & MAINTENANCE	2.61	0.00	0.00	0.00	0.00	0.00	1.78	0.56	0.00	0.14	0.28	4.25
INTEREST ON OP. CAP.	2.83	0.00	0.00	0.00	0.00	0.72	1.59	0.57	0.00	0.13	0.14	0.09
TOTAL DIRECT EXPENSES	67.11	0.00	0.00	0.00	0.00	28.40	73.55	31.56	0.00	11.97	19.52	24.02
NET INCOME	-67.11	0.00	0.00	0.00	0.00	-28.40	-73.55	-31.56	0.00	-11.97	-19.52	391.36
NET INCOME TO DATE	-67.11	-67.11	-67.11	-67.11	-67.11	-95.51	-169.06	-200.62	-200.62	-212.59	-232.11	159.25

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-94	-84	-73	-63	-53	-42	-32	-21	-11	-1	9
			-127	-116	-106	-95	-85	-75	-64	-54	-43	-33	-23
60	25.80	bu	-64	-52	-39	-27	-14	-2	10	22	35	47	60
			-97	-84	-72	-59	-47	-34	-22	-9	2	15	27
70	30.10	bu	-34	-20	-5	9	23	38	52	67	81	96	110
			-67	-52	-37	-23	-8	5	20	34	49	63	78
80	34.40	bu	-4	12	28	45	61	78	95	111	128	144	161
			-37	-20	-3	12	29	46	62	79	95	112	129
90	38.70	bu	25	44	62	81	100	118	137	156	174	193	212
			-7	11	30	49	67	86	105	123	142	161	179
100	43.00	bu	55	76	96	117	138	159	180	200	221	242	263
			22	43	64	85	105	126	147	168	189	209	230
110	47.30	bu	85	108	131	153	176	199	222	245	268	291	313
			52	75	98	121	144	167	189	212	235	258	281
120	51.60	bu	115	140	165	190	215	239	264	289	314	339	364
			82	107	132	157	182	207	232	257	282	307	332
130	55.90	bu	145	172	199	226	253	280	307	334	361	388	415
			112	139	166	193	220	247	274	301	328	355	382
140	60.20	bu	175	204	233	262	291	320	349	378	407	437	466
			142	171	201	230	259	288	317	346	375	404	433
150	64.50	bu	205	236	267	298	329	361	392	423	454	485	516
			172	204	235	266	297	328	359	390	422	453	484

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

Table 7.A Estimated costs per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	1.0000	6.00	_____
HARVEST AIDS					
Paraquat	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.50	0.6600	16.17	_____
Potash (60% K2O)	cwt	23.60	1.0000	23.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	3.0000	8.58	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Tricor DF	lb	15.28	0.3000	4.58	_____
Dual Magnum	pt	13.49	1.0000	13.49	_____
INSECTICIDES					
Dimilin 2L	oz	2.01	1.0000	2.01	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	2.0000	4.00	_____
Baythroid XL	oz	2.40	1.0650	2.56	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
ADJUVANTS					
Surfactant	pt	3.60	0.2500	0.90	_____
HAULING					
Haul Soybeans	bu	0.27	30.0000	8.10	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	0.2500	11.25	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.3879	4.87	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1662	1.50	_____
UNALLOCATED LABOR	hour	12.53	0.4410	5.53	_____
DIESEL FUEL					
Tractors	gal	3.20	3.7939	12.14	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	4.95	1.0000	4.95	_____
Tractors	acre	2.02	1.0000	2.02	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	4.61	1.0000	4.61	_____

TOTAL DIRECT EXPENSES				231.54	_____
FIXED EXPENSES					
Implements	acre	9.50	1.0000	9.50	_____
Tractors	acre	12.35	1.0000	12.35	_____
Harvesters	acre	11.86	1.0000	11.86	_____

TOTAL FIXED EXPENSES				33.71	_____

TOTAL SPECIFIED EXPENSES				265.25	_____

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

Table 7.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	30.0000	289.80	_____
TOTAL INCOME				289.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.00	1.0000	6.00	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	39.77	1.0000	39.77	_____
FUNGICIDES	acre	15.22	1.0000	15.22	_____
HERBICIDES	acre	27.07	1.0000	27.07	_____
INSECTICIDES	acre	13.99	1.0000	13.99	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
ADJUVANTS	acre	0.90	1.0000	0.90	_____
HAULING	acre	8.10	1.0000	8.10	_____
CUSTOM LIME	acre	11.25	1.0000	11.25	_____
HAND LABOR	hour	9.06	0.1662	1.50	_____
OPERATOR LABOR	hour	12.55	0.4901	6.15	_____
UNALLOCATED LABOR	hour	12.53	0.4410	5.53	_____
DIESEL FUEL	gal	3.20	5.1875	16.60	_____
REPAIR & MAINTENANCE	acre	10.07	1.0000	10.07	_____
INTEREST ON OP. CAP.	acre	4.61	1.0000	4.61	_____
TOTAL DIRECT EXPENSES				231.54	_____
RETURNS ABOVE DIRECT EXPENSES				58.26	_____
TOTAL FIXED EXPENSES				33.71	_____
TOTAL SPECIFIED EXPENSES				265.25	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				24.55	_____

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

Table 7.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Lime (Spread)	ton			0.25	Nov	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Apr		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Tricor DF	lb					0.3000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Intrepid 2F	oz					2.0000				
Baythroid XL	oz					1.0650				
Surfactant	pt					0.0500				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Paraquat	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					30.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.49	0.49	0.65	0.44

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

Table 7.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Lime (Spread)	ton	11.25					0.50	11.75		11.75
Spin Spreader	5 ton		1.32	0.48	1.39		0.08	3.27	1.84	5.11
Phosphorus(46% P2O5)	cwt	16.17					0.42	16.59		16.59
Potash (60% K2O)	cwt	23.60					0.61	24.21		24.21
Disk Harrow	24'		2.56	1.40	1.95		0.15	6.06	4.58	10.64
Field Cultivate Fld	24'		1.95	0.73	1.48		0.09	4.25	3.64	7.89
Plant & Pre-Folding	12R-30		2.12	2.09	2.22		0.14	6.57	5.36	11.93
Soybean Seed RR2	lb	59.50					1.31	60.81		60.81
CruiserMaxx	oz	6.64					0.15	6.79		6.79
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.10	4.60		4.60
Tricor DF	lb	4.58					0.10	4.68		4.68
Dual Magnum	pt	13.49					0.30	13.79		13.79
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Glyphosate 3lbs a.e	pt	4.50					0.08	4.58		4.58
Spray (Broadcast)	60'		0.44	0.14	0.40		0.01	0.99	0.53	1.52
Dimilin 2L	oz	2.01					0.03	2.04		2.04
Quadris	oz	8.58					0.13	8.71		8.71
Spray (Broadcast)	60'		0.88	0.28	0.80		0.02	1.98	1.05	3.03
Acephate 90SP	lb	5.42					0.06	5.48		5.48
Spray (Broadcast)	60'		0.44	0.14	0.40		0.01	0.99	0.53	1.52
Intrepid 2F	oz	4.00					0.04	4.04		4.04
Baythroid XL	oz	2.56					0.03	2.59		2.59
Surfactant	pt	0.18						0.18		0.18
App by Air (5 gal)	appl	6.00					0.04	6.04		6.04
Paraquat	oz	5.28					0.04	5.32		5.32
Surfactant	pt	0.72					0.01	0.73		0.73
Header -Soybean	25' Flex		4.46	3.94	2.43		0.04	10.87	13.07	23.94
Haul Soybeans	bu	8.10					0.03	8.13		8.13
Grain Cart Soybean	700 bu		0.67	0.31	0.51		0.01	1.50	1.01	2.51
TOTALS		187.08	16.60	10.07	13.18	0.00	4.61	231.54	33.71	265.25

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

Table 7.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	289.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	39.77	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	8.58	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.57	4.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	11.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.72	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
CUSTOM LIME	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	3.34	4.50	0.80	0.40	1.20	0.00	2.94
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	3.88	4.95	0.88	0.44	1.32	0.00	5.13
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	1.88	3.10	0.28	0.14	0.42	0.00	4.25
INTEREST ON OP. CAP.	0.50	0.00	0.00	0.00	0.00	1.26	2.23	0.12	0.17	0.16	0.09	0.08
TOTAL DIRECT EXPENSES	11.75	0.00	0.00	0.00	0.00	50.13	103.49	6.58	11.74	15.26	12.09	20.50
NET INCOME	-11.75	0.00	0.00	0.00	0.00	-50.13	-103.49	-6.58	-11.74	-15.26	-12.09	269.30
NET INCOME TO DATE	-11.75	-11.75	-11.75	-11.75	-11.75	-61.88	-165.37	-171.95	-183.69	-198.95	-211.04	58.26

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 30"
Non-Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	15.00	bu	-118	-111	-104	-97	-89	-82	-75	-68	-60	-53	-46
			-152	-145	-138	-130	-123	-116	-109	-101	-94	-87	-80
60	18.00	bu	-97	-89	-80	-71	-63	-54	-45	-37	-28	-19	-10
			-131	-122	-114	-105	-96	-88	-79	-70	-62	-53	-44
70	21.00	bu	-76	-66	-56	-46	-36	-26	-16	-5	4	14	24
			-110	-100	-90	-80	-70	-59	-49	-39	-29	-19	-9
80	24.00	bu	-56	-44	-32	-21	-9	1	13	25	36	48	59
			-89	-78	-66	-54	-43	-31	-20	-8	2	14	26
90	27.00	bu	-35	-22	-9	4	17	30	43	56	69	82	95
			-68	-55	-42	-29	-16	-3	9	22	35	48	61
100	30.00	bu	-14	0	14	29	43	58	72	87	101	116	130
			-47	-33	-18	-4	10	24	39	53	68	82	97
110	33.00	bu	6	22	38	54	70	86	102	118	134	150	166
			-26	-11	4	20	36	52	68	84	100	116	132
120	36.00	bu	27	45	62	79	97	114	131	149	166	184	201
			-6	11	28	46	63	80	98	115	133	150	167
130	39.00	bu	48	67	86	105	123	142	161	180	199	218	236
			14	33	52	71	90	109	127	146	165	184	203
140	42.00	bu	69	89	110	130	150	170	191	211	231	252	272
			35	56	76	96	116	137	157	177	198	218	238
150	45.00	bu	90	112	133	155	177	199	220	242	264	286	307
			56	78	100	121	143	165	187	208	230	252	274

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

Table 8.A Estimated costs per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.50	0.6600	16.17	_____
Potash (60% K2O)	cwt	23.60	1.0000	23.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.15	1.6000	6.64	_____
Quadris	oz	2.86	3.0000	8.58	_____
HERBICIDES					
Paraquat	oz	0.33	48.0000	15.84	_____
Tricor DF	lb	15.28	0.3000	4.58	_____
Dual Magnum	pt	13.49	1.0000	13.49	_____
Glyphosate 3lbs a.e	pt	2.25	1.0000	2.25	_____
INSECTICIDES					
Dimilin 2L	oz	2.01	1.0000	2.01	_____
Acephate 90SP	lb	7.23	0.7500	5.42	_____
Intrepid 2F	oz	2.00	3.0000	6.00	_____
Baythroid XL	oz	2.40	1.5975	3.83	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.19	50.0000	59.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.2396	3.01	_____
Harvesters	hour	12.55	0.1021	1.28	_____
HAND LABOR					
Implements	hour	9.06	0.1654	1.50	_____
UNALLOCATED LABOR	hour	12.48	0.2939	3.67	_____
DIESEL FUEL					
Tractors	gal	3.20	2.3436	7.50	_____
Harvesters	gal	3.20	1.3935	4.46	_____
REPAIR & MAINTENANCE					
Implements	acre	3.70	1.0000	3.70	_____
Tractors	acre	1.25	1.0000	1.25	_____
Harvesters	acre	3.10	1.0000	3.10	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____

TOTAL DIRECT EXPENSES				208.45	_____
FIXED EXPENSES					
Implements	acre	6.13	1.0000	6.13	_____
Tractors	acre	7.63	1.0000	7.63	_____
Harvesters	acre	11.86	1.0000	11.86	_____

TOTAL FIXED EXPENSES				25.62	_____

TOTAL SPECIFIED EXPENSES				234.07	_____

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

Table 8.B Summary of estimated costs and returns per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.66	25.0000	241.50	_____
TOTAL INCOME				241.50	_____
DIRECT EXPENSES					
FERTILIZERS	acre	39.77	1.0000	39.77	_____
FUNGICIDES	acre	15.22	1.0000	15.22	_____
HERBICIDES	acre	36.16	1.0000	36.16	_____
INSECTICIDES	acre	17.26	1.0000	17.26	_____
SEED/PLANTS	acre	59.50	1.0000	59.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
HAND LABOR	hour	9.06	0.1654	1.50	_____
OPERATOR LABOR	hour	12.55	0.3418	4.29	_____
UNALLOCATED LABOR	hour	12.48	0.2939	3.67	_____
DIESEL FUEL	gal	3.20	3.7372	11.96	_____
REPAIR & MAINTENANCE	acre	8.05	1.0000	8.05	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____
TOTAL DIRECT EXPENSES				208.45	_____
RETURNS ABOVE DIRECT EXPENSES				33.05	_____
TOTAL FIXED EXPENSES				25.62	_____
TOTAL SPECIFIED EXPENSES				234.07	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				7.43	_____

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

Table 8.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
NT Plant&Pre-Folding	12R-30	MFWD 190	0.070	1.00	Jun		0.07	0.07	0.14	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Paraquat	oz					48.0000				
Tricor DF	lb					0.3000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.75	Aug		0.02	0.02	0.03	0.01
Intrepid 2F	oz					3.0000				
Baythroid XL	oz					1.5975				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.34	0.34	0.50	0.29

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

Table 8.D Estimated costs for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Spin Spreader	5 ton		1.32	0.48	1.36		0.14	3.30	1.84	5.14
Phosphorus(46% P2O5)	cwt	16.17					0.71	16.88		16.88
Potash (60% K2O)	cwt	23.60					1.04	24.64		24.64
NT Plant&Pre-Folding	12R-30		2.21	2.27	2.28		0.12	6.88	5.75	12.63
Soybean Seed RR2	lb	59.50					1.09	60.59		60.59
CruiserMaxx	oz	6.64					0.12	6.76		6.76
Spray (Broadcast)	60'		0.88	0.28	0.78		0.04	1.98	1.05	3.03
Paraquat	oz	15.84					0.29	16.13		16.13
Tricor DF	lb	4.58					0.08	4.66		4.66
Dual Magnum	pt	13.49					0.25	13.74		13.74
Spray (Broadcast)	60'		0.44	0.14	0.39		0.01	0.98	0.53	1.51
Glyphosate 3lbs a.e	pt	2.25					0.03	2.28		2.28
Spray (Broadcast)	60'		0.44	0.14	0.39		0.01	0.98	0.53	1.51
Dimilin 2L	oz	2.01					0.02	2.03		2.03
Quadris	oz	8.58					0.09	8.67		8.67
Spray (Broadcast)	60'		0.88	0.28	0.78		0.02	1.96	1.05	3.01
Acephate 90SP	lb	5.42					0.06	5.48		5.48
Spray (Broadcast)	60'		0.66	0.21	0.60		0.02	1.49	0.79	2.28
Intrepid 2F	oz	6.00					0.07	6.07		6.07
Baythroid XL	oz	3.83					0.04	3.87		3.87
Header -Soybean	25' Flex		4.46	3.94	2.38		0.04	10.82	13.07	23.89
Haul Soybeans	bu	6.75					0.02	6.77		6.77
Grain Cart Soybean	700 bu		0.67	0.31	0.50		0.01	1.49	1.01	2.50
TOTALS		174.66	11.96	8.05	9.46	0.00	4.32	208.45	25.62	234.07

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

Table 8.E Estimated monthly income and expense flows per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	dollars											
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	241.50
DIRECT EXPENSES												
FERTILIZERS	39.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	8.58	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.91	2.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.26	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
LABOR	1.36	0.00	0.00	0.00	0.00	0.00	0.00	3.06	0.39	1.77	0.00	2.88
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.32	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.44	1.98	0.00	5.13
REPAIR & MAINTENANCE	0.48	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.14	0.63	0.00	4.25
INTEREST ON OP. CAP.	1.89	0.00	0.00	0.00	0.00	0.00	0.00	1.99	0.04	0.33	0.00	0.07
TOTAL DIRECT EXPENSES	44.82	0.00	0.00	0.00	0.00	0.00	0.00	110.74	3.26	30.55	0.00	19.08
NET INCOME	-44.82	0.00	0.00	0.00	0.00	0.00	0.00	-110.74	-3.26	-30.55	0.00	222.42
NET INCOME TO DATE	-44.82	-44.82	-44.82	-44.82	-44.82	-44.82	-44.82	-155.56	-158.82	-189.37	-189.37	33.05

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from $10 to $14 plus application cost per acre.
* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
Soybeans after wheat, RR, no-till, 12R 30"
Non-Delta Area, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			7.24	7.72	8.21	8.69	9.17	9.66	10.14	10.62	11.10	11.59	12.07
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-114	-108	-102	-96	-90	-84	-78	-72	-66	-60	-54
			-140	-134	-128	-122	-115	-109	-103	-97	-91	-85	-79
60	15.00	bu	-97	-89	-82	-75	-68	-60	-53	-46	-39	-31	-24
			-122	-115	-108	-100	-93	-86	-79	-71	-64	-57	-50
70	17.50	bu	-79	-71	-62	-54	-45	-37	-28	-20	-12	-3	4
			-105	-96	-88	-79	-71	-62	-54	-46	-37	-29	-20
80	20.00	bu	-62	-52	-42	-33	-23	-13	-4	5	15	24	34
			-87	-78	-68	-58	-49	-39	-29	-20	-10	-0	8
90	22.50	bu	-44	-33	-23	-12	-1	9	20	31	42	53	63
			-70	-59	-48	-37	-26	-16	-5	5	16	27	38
100	25.00	bu	-27	-15	-3	8	20	33	45	57	69	81	93
			-52	-40	-28	-16	-4	7	19	31	43	55	67
110	27.50	bu	-9	3	16	29	43	56	69	83	96	109	122
			-35	-22	-8	4	17	30	44	57	70	84	97
120	30.00	bu	7	22	36	51	65	79	94	108	123	137	152
			-18	-3	10	25	39	54	68	83	97	112	126
130	32.50	bu	24	40	56	72	87	103	119	134	150	166	181
			-0	15	30	46	62	77	93	109	124	140	156
140	35.00	bu	42	59	76	93	110	126	143	160	177	194	211
			16	33	50	67	84	101	118	135	152	168	185
150	37.50	bu	59	77	96	114	132	150	168	186	204	222	240
			34	52	70	88	106	124	142	161	179	197	215

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

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2015

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	$/hour					
Combine (250-299 hp)	265 hp	291,000	300	8	13.64	12.55	43.64	30.31	86.51	116.03	202.54
Combine (300-349 hp)	325 hp	325,000	300	8	16.73	12.55	53.53	33.85	99.94	129.59	229.53
Combine (350-399 hp)	355 hp	350,000	300	8	18.27	12.55	58.46	36.45	107.47	139.56	247.03
Combine (400-449 hp)	425 hp	375,000	300	8	21.87	12.55	70.00	39.06	121.61	149.53	271.14
Combine (450-499hp)	475 hp	397,000	300	8	24.44	12.55	78.23	41.35	132.14	158.30	290.44
Cotton Stripper	173 hp	170,000	200	8	8.08	12.55	25.85	26.56	64.96	101.68	166.65
Tractor(20-39hp)CB	MFWD 30	31,100	600	8	1.54	12.55	4.94	0.97	18.46	5.64	24.11
Tractor(20-39hp)RB	MFWD 30	18,600	600	8	1.54	12.55	4.94	0.58	18.07	3.37	21.44
Tractor(40-59hp)CB	2WD 50	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor(40-59hp)CB	MFWD 50	38,900	600	8	2.57	12.55	8.23	1.21	22.00	7.06	29.06
Tractor(40-59hp)RB	2WD 50	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor(40-59hp)RB	MFWD 50	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor(60-89hp)CB	2WD 75	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor(60-89hp)CB	MFWD 75	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor(60-89hp)RB	2WD 75	35,000	600	8	3.86	12.55	12.35	1.09	25.99	6.35	32.35
Tractor(60-89hp)RB	MFWD 75	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor(90-119hp)CB	2WD 105	63,100	600	8	5.40	12.55	17.29	1.97	31.81	11.45	43.27
Tractor(90-119hp)CB	MFWD 105	74,400	600	8	5.40	12.55	17.29	2.32	32.16	13.51	45.68
Tractor(90-119hp)RB	2WD 105	54,300	600	8	5.40	12.55	17.29	1.69	31.54	9.86	41.40
Tractor(90-119hp)RB	MFWD 105	56,900	600	8	5.40	12.55	17.29	1.77	31.62	10.33	41.95
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	12.55	21.41	3.00	36.97	17.48	54.46
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	12.55	21.41	3.56	37.52	20.70	58.22
Tractor(140-159hp)CB	2WD 150	127,000	600	8	7.72	12.55	24.70	3.96	41.22	23.06	64.29
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	12.55	24.70	4.46	41.72	25.97	67.69
Tractor(160-179hp)CB	MFWD 170	156,000	600	8	8.75	12.55	28.00	4.87	45.42	29.71	75.14
Tractor(180-199hp)CB	MFWD 190	167,000	600	8	9.77	12.55	31.29	5.21	49.06	31.81	80.87
Tractor(200-249hp)CB	MFWD 225	226,000	600	8	11.58	12.55	37.06	7.06	56.67	43.05	99.72
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	12.55	37.06	8.65	58.26	52.76	111.03
Tractor(250-349hp)CB	4WD 300	277,000	600	8	15.44	12.55	49.41	8.65	70.62	52.76	123.38
Tractor(250-349hp)CB	MFWD 300	271,000	600	8	15.44	12.55	49.41	8.46	70.43	51.62	122.05
Tractor(250-349hp)CB	Track 300	281,000	600	8	15.44	12.55	49.41	8.78	70.74	53.52	124.27
Tractor(350-449hp)CB	4WD 400	313,000	600	8	20.58	12.55	65.88	9.78	88.21	59.62	147.84
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	12.55	65.88	11.37	89.80	69.33	159.14
Tractor(450-550hp)CB	4WD 500	361,000	600	8	25.73	12.55	82.35	11.28	106.18	68.76	174.95
Tractor(450-550hp)CB	Track 500	399,000	600	8	25.73	12.55	82.35	12.46	107.37	76.00	183.38
Utility Vechicle	900 CC	14,300	200	8	1.00	12.55	3.40	2.23	18.18	8.55	26.73
Utility Vehicle	800 CC	6,500	200	8	0.70	12.55	2.38	1.01	15.94	3.88	19.83
Utility Vehicle-mule	600 CC	11,500	200	8	0.50	12.55	1.70	1.79	16.04	6.87	22.92

Notes:
Labor: Includes allocated labor from power unit.
Total Direct: Does not include interest on operating capital.
CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate,and direct and fixed cost per acre, Mississippi, 2015

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

Notes:
Labor: includes allocated labor plus any additional labor from self-propelled machine.
Direct: Does not include interest on operating capital.

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

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

(continued)

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

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

continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

Notes:
Labor: Includes labor from Power unit plus additional labor from the implement.
Total Direct: Does not include interest on operating capital.
HB = Hooded Boom, HD = Hooded Direct

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

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

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

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

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.55
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06

CROP ENTERPRISE	UNALLOCATED LABOR MULTIPLIERS (%)
Corn	90
Cotton	80
Grain Sorghum	90
Peanuts	80
Rice	90
Soybeans	90
Wheat	80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2015

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

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

[b] Basis is the mid-week Greenville, MS cash price minus the futures contract price for the stated contract month. The reported basis is an Olympic average from 2006 to 2013, which removes the highest and lowest within week basis value. All basis values are composed of the typical harvest timeframe for each crop according to USDA, NASS crop progress reports.
Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

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

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

[e] Price used in the 2015 MAFES Planning Budgets.

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

Appendix Table 8. Estimated costs for field operations, per acre
Early soybeans irrigated with roll-out pipe
60-acre system, 9 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Land Plane	50'x16'		1.19	0.29	0.48		0.09	2.05	1.45	3.50
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.20	0.05	0.12		0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58					0.13	8.71		8.71
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39		0.01	0.73	0.47	1.20
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.40	0.10	0.58			1.08	0.71	1.79
Land Forming ($390)	each								30.35	30.35
Well & Pump, Furrow	each			2.44			0.04	2.48	6.85	9.33
Main Line Pipe	each								4.73	4.73
Engine, RPF, ESB	each								7.74	7.74
1st June Irrigation	ac-in		7.82	1.26			0.13	9.21		9.21
2nd June Irrigation	ac-in		7.82	1.26			0.13	9.21		9.21
July Irrigation	ac-in		7.82	1.26			0.10	9.18		9.18
TOTALS		8.58	25.52	6.72	4.30	0.00	0.67	45.79	52.48	98.27

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

Appendix Table 9. Estimated costs for field operations, per acre
Irrigation with a contour flood system
80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.01	0.46		0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.45	0.10	0.20		0.01	0.76	0.60	1.36
Survey & Mark Levees	acre	2.25					0.04	2.29		2.29
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27		0.02	1.02	0.80	1.82
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.01	0.76	0.36	1.12
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21		0.01	0.72	0.50	1.22
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27		0.01	1.01	0.80	1.81
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.01	0.76	0.36	1.12
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21		0.01	0.72	0.50	1.22
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.60	0.13	0.27		0.01	1.01	0.80	1.81
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.01	0.76	0.36	1.12
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.41	0.09	0.21		0.01	0.72	0.50	1.22
Tear Down Levees										
Levee Splitter (1/80	32"		0.31	0.07	0.16			0.54	0.38	0.92
Land Forming ($113)	each								7.62	7.62
Well & Pump, Flood	each			4.88			0.09	4.97	13.70	18.67
Engine, CF, 75	each								15.47	15.47
June Irrigation	ac-in		11.73	2.52			0.26	14.51		14.51
July Irrigation	ac-in		11.73	2.52			0.21	14.46		14.46
August Irrigation	ac-in		11.73	2.52			0.16	14.41		14.41
TOTALS		2.25	40.27	13.48	5.37	0.00	0.91	62.28	42.75	105.03

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

Appendix Table 10. Estimated costs for field operations, per acre
Irrigation with a 1/2-mile center pivot system
530-acre system, 7.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.07			0.07		0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Pivot, 1/2 CP	each			6.87			0.13	7.00	26.40	33.40
Well & Pump, 1/2 CP	each			0.95			0.02	0.97	2.67	3.64
Engine, 1/2 CP, 164	each								3.48	3.48
June Irr. 3app@.75"	ac-in		15.75	0.51			0.30	16.56		16.56
July Irr. 4app@.75"	ac-in		21.00	0.68			0.32	22.00		22.00
Aug Irr. 3app@.75"	ac-in		15.75	0.51			0.18	16.44		16.44
TOTALS		0.00	52.50	9.52	0.47	0.00	0.96	63.45	32.55	96.00

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

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