

**SOYBEANS
2011
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2010-11**

December 2010

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2011 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2011 Budget Committees.....	ii
2011 Planning Budgets	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures	1
Production Practices	1
Machinery	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns	3
Irrigation Costs	3
Enterprise Budgets	
Table	
1 Soybeans, early-planted, RR, stale seedbed, 12R 20” Delta Area.....	6
2 Soybeans, early-planted, RR, stale seedbed, 12R 20” Furrow irrigated, 9 ac-in., Delta Area.....	12
3 Soybeans, May-planted, RR, 12R 20” Delta Area.....	18
4 Soybeans, May-planted, RR, 12R 20” Flood irrigated, 13.5 ac-in., Delta Area	24
5 Soybeans after wheat, RR, 12R 20” Pivot irrigated, 7.5 ac-in., Delta Area.....	30
6 Soybeans, early-planted, RR, reduced tillage, 12R 20” Non-Delta Area.....	36
7 Soybeans, May-planted, RR, convent. tillage, 12R 20” Non-Delta Area	42
8 Soybeans after wheat, RR, no-till, 12R 20” Non-Delta Area.....	48
Appendix	
Table	
1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour.....	56
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per hour.....	57
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre.....	58
4 Operating inputs: estimated prices.....	65

5	Estimated fuel prices and interest rates	69
6	Labor types, wage rates and unallocated labor multipliers for crop enterprises.....	69
7	Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets	70
8	Early soybeans irrigated with roll-out pipe 160-acre system, 9 ac-in., Delta Area	71
9	Irrigation with a contour flood system 80-acre system, 13.5 ac-in., Delta Area	72
10	Irrigation with a ½-mile center pivot system 530-acre system, 7.5 ac-in., Delta Area	73
	Literature Cited	75

2011 Planning Budgets

Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

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

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2010. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own 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 2010 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

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 20"
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.50	3.5000	19.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	8.0000	2.00	_____
Sodium Chlorate 3L	gal	3.35	0.5000	1.68	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.2800	6.16	_____
Potash (60% K2O)	cwt	23.00	0.4000	9.20	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Headline	oz	2.60	3.0000	7.80	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	6.0000	10.50	_____
2,4-D Amine 4	pt	1.74	2.0000	3.48	_____
Valor SX	oz	4.72	2.0000	9.44	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	0.9600	2.76	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	42.0000	10.92	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3524	4.00	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1393	1.26	_____
UNALLOCATED LABOR	hour	11.36	0.4091	4.65	_____
DIESEL FUEL					
Tractors	gal	2.39	3.4472	8.23	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.57	1.0000	3.57	_____
Tractors	acre	1.41	1.0000	1.41	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	4.39	1.0000	4.39	_____
TOTAL DIRECT EXPENSES				203.23	_____
FIXED EXPENSES					
Implements	acre	7.66	1.0000	7.66	_____
Tractors	acre	9.13	1.0000	9.13	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				26.78	_____
TOTAL SPECIFIED EXPENSES				230.01	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 1.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	42.0000	462.00	_____

TOTAL INCOME				462.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.25	1.0000	19.25	_____
HARVEST AIDS	acre	3.68	1.0000	3.68	_____
FERTILIZERS	acre	15.36	1.0000	15.36	_____
FUNGICIDES	acre	9.65	1.0000	9.65	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	14.17	1.0000	14.17	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	10.92	1.0000	10.92	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1393	1.26	_____
OPERATOR LABOR	hour	11.35	0.4546	5.16	_____
UNALLOCATED LABOR	hour	11.36	0.4091	4.65	_____
DIESEL FUEL	gal	2.39	4.8408	11.56	_____
REPAIR & MAINTENANCE	acre	7.44	1.0000	7.44	_____
INTEREST ON OP. CAP.	acre	4.39	1.0000	4.39	_____

TOTAL DIRECT EXPENSES				203.23	_____
RETURNS ABOVE DIRECT EXPENSES				258.77	_____
TOTAL FIXED EXPENSES				26.78	_____

TOTAL SPECIFIED EXPENSES				230.01	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				231.99	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 1.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
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	0.40	Oct		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.2800				
Potash (60% K2O)	cwt					0.4000				
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				
Valor SX	oz					2.0000				
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaicho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Headline	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			0.50	Aug	0.5000				
Gramoxone Inteon	oz					8.0000				
Sodium Chlorate 3L	gal					0.5000				
Surfactant	pt					0.1000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					42.0000				
TOTALS							0.45	0.45	0.59	0.40

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 1.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		0.96	0.21	0.88		0.09	2.14	1.18	3.32
Lime (Spread)	ton	9.20					0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51		0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	6.16					0.27	6.43		6.43
Potash (60% K2O)	cwt	9.20					0.40	9.60		9.60
Disk Harrow	24'		1.91	1.08	1.77		0.21	4.97	3.77	8.74
Field Cultivate Fld	24'		1.45	0.62	1.35		0.15	3.57	3.22	6.79
App by Air (5 gal)	appl	5.50					0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
2,4-D Amine 4	pt	3.48					0.10	3.58		3.58
Valor SX	oz	9.44					0.27	9.71		9.71
Plant - Rigid	12R-20		2.20	1.72	2.88		0.15	6.95	5.10	12.05
Soybean Seed RR	lb	49.50					1.07	50.57		50.57
Apron Maxx RTA	oz	1.85					0.04	1.89		1.89
Nitragin S	oz	0.74					0.02	0.76		0.76
Gaicho 600	oz	6.56					0.14	6.70		6.70
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
Dual Magnum	pt	12.64					0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
App by Air (5 gal)	appl	2.75					0.03	2.78		2.78
Headline	oz	7.80					0.08	7.88		7.88
App by Air (5 gal)	appl	2.75					0.03	2.78		2.78
Karate Z	oz	2.76					0.03	2.79		2.79
App by Air (5 gal)	appl	5.50					0.04	5.54		5.54
Acephate 90SP	lb	4.85					0.04	4.89		4.89
App by Air (5 gal)	appl	2.75					0.02	2.77		2.77
Gramoxone Inteon	oz	2.00					0.01	2.01		2.01
Sodium Chlorate 3L	gal	1.68					0.01	1.69		1.69
Surfactant	pt	0.24						0.24		0.24
Header -Soybean	25' Flex		3.33	3.16	2.20		0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	10.92					0.04	10.96		10.96
TOTALS		168.77	11.56	7.44	11.07	0.00	4.39	203.23	26.78	230.01

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 1.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	462.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	5.50	8.25	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68	0.00
FERTILIZERS	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	7.80	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	16.42	0.00	0.00	19.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	2.76	4.85	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.92
CUSTOM LIME	9.20	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	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	2.88	1.48	0.00	0.00	0.00	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.71	0.00	0.00	0.00	0.00	0.00	2.20	1.32	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	1.72	0.48	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	1.57	0.00	0.00	0.00	0.63	0.00	1.42	0.41	0.00	0.17	0.12	0.07
TOTAL DIRECT EXPENSES	37.43	0.00	0.00	0.00	22.55	0.00	66.87	23.33	0.00	16.23	17.14	19.68
NET INCOME	-37.43	0.00	0.00	0.00	-22.55	0.00	-66.87	-23.33	0.00	-16.23	-17.14	442.32
NET INCOME TO DATE	-37.43	-37.43	-37.43	-37.43	-59.98	-59.98	-126.85	-150.18	-150.18	-166.41	-183.55	258.77

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 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 20"
 Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-24	-12	-1	10	21	33	44	56	67	79	91
			-51	-39	-28	-16	-5	6	18	29	41	52	64
60	25.20	bu	9	22	36	50	64	78	92	106	119	133	147
			-17	-3	9	23	37	51	65	79	93	107	120
70	29.40	bu	42	58	74	91	107	123	139	155	171	188	204
			15	31	48	64	80	96	112	129	145	161	177
80	33.60	bu	76	94	113	131	150	168	187	205	224	242	260
			49	67	86	104	123	141	160	178	197	215	234
90	37.80	bu	109	130	151	172	192	213	234	255	276	296	317
			82	103	124	145	166	186	207	228	249	270	290
100	42.00	bu	143	166	189	212	235	258	281	304	328	351	374
			116	139	162	185	208	231	255	278	301	324	347
110	46.20	bu	176	202	227	253	278	303	329	354	380	405	430
			150	175	200	226	251	277	302	327	353	378	404
120	50.40	bu	210	238	265	293	321	348	376	404	432	459	487
			183	211	239	266	294	322	349	377	405	433	460
130	54.60	bu	243	273	303	334	364	394	424	454	484	514	544
			217	247	277	307	337	367	397	427	457	487	517
140	58.80	bu	277	309	342	374	406	439	471	503	536	568	600
			250	283	315	347	380	412	444	477	509	541	574
150	63.00	bu	311	345	380	414	449	484	518	553	588	622	657
			284	318	353	388	422	457	492	526	561	596	630

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

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

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

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

Table 2.A Estimated costs per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.50	3.5000	19.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	4.0000	1.00	_____
Sodium Chlorate 3L	gal	3.35	0.2500	0.84	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	3.0000	7.56	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	6.0000	10.50	_____
2,4-D Amine 4	pt	1.74	2.0000	3.48	_____
Valor SX	oz	4.72	2.0000	9.44	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	0.9600	2.76	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	1.0000	1.66	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.0750	0.18	_____
HAULING					
Haul Soybeans/Field	bu	0.26	65.0000	16.90	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5051	5.73	_____
Harvesters	hour	11.35	0.1021	1.16	_____
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	0.1393	1.26	_____
UNALLOCATED LABOR					
	hour	11.36	0.4758	5.41	_____
DIESEL FUEL					
Tractors	gal	2.39	4.8145	11.50	_____
Harvesters	gal	2.39	1.3935	3.33	_____
Roll-Out Pipe Irr.	gal	2.39	7.3316	17.52	_____
REPAIR & MAINTENANCE					
Implements	acre	4.16	1.0000	4.16	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	2.46	1.0000	2.46	_____
Roll-Out Pipe Irr.	acre	5.16	1.0000	5.16	_____
INTEREST ON OP. CAP.	acre	5.42	1.0000	5.42	_____
TOTAL DIRECT EXPENSES				256.50	_____
FIXED EXPENSES					
Implements	acre	9.76	1.0000	9.76	_____
Tractors	acre	12.71	1.0000	12.71	_____
Harvesters	acre	9.99	1.0000	9.99	_____
Roll-Out Pipe Irr.	acre	46.78	1.0000	46.78	_____
TOTAL FIXED EXPENSES				79.24	_____
TOTAL SPECIFIED EXPENSES				335.74	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 2.B Summary of estimated costs and returns per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 20"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	65.0000	715.00	_____

TOTAL INCOME				715.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.26	1.0000	19.26	_____
HARVEST AIDS	acre	1.84	1.0000	1.84	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	15.83	1.0000	15.83	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.18	1.0000	0.18	_____
HAULING	acre	16.90	1.0000	16.90	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1393	1.26	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	11.35	0.6072	6.89	_____
UNALLOCATED LABOR	hour	11.36	0.4758	5.41	_____
DIESEL FUEL	gal	2.39	13.5398	32.35	_____
REPAIR & MAINTENANCE	acre	13.75	1.0000	13.75	_____
INTEREST ON OP. CAP.	acre	5.42	1.0000	5.42	_____

TOTAL DIRECT EXPENSES				256.50	_____
RETURNS ABOVE DIRECT EXPENSES				458.50	_____
TOTAL FIXED EXPENSES				79.24	_____

TOTAL SPECIFIED EXPENSES				335.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				379.26	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 2.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
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	0.40	Oct		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
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
Bedder Roller Fold.	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaicho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
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			0.25	Aug	0.2500				
Gramoxone Inteon	oz					4.0000				
Sodium Chlorate 3L	gal					0.2500				
Surfactant	pt					0.0500				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					65.0000				
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.60	0.60	1.10	0.47

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 2.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, stale seedbed, 12R 20"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		0.96	0.21	0.88		0.09	2.14	1.18	3.32
Lime (Spread)	ton	9.20					0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51		0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	8.80					0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80					0.60	14.40		14.40
Disk Harrow	24'		1.91	1.08	1.77		0.21	4.97	3.77	8.74
Field Cultivate Fld	24'		1.45	0.62	1.35		0.15	3.57	3.22	6.79
Bedder Roller Fold.	8R-38		1.73	0.73	1.60		0.18	4.24	3.09	7.33
App by Air (5 gal)	appl	5.50					0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
2,4-D Amine 4	pt	3.48					0.10	3.58		3.58
Valor SX	oz	9.44					0.27	9.71		9.71
Plant - Rigid	12R-20		2.20	1.72	2.88		0.15	6.95	5.10	12.05
Soybean Seed RR	lb	49.50					1.07	50.57		50.57
Apron Maxx RTA	oz	1.85					0.04	1.89		1.89
Nitragin S	oz	0.74					0.02	0.76		0.76
Gaucho 600	oz	6.56					0.14	6.70		6.70
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
Dual Magnum	pt	12.64					0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
App by Air (5 gal)	appl	2.75					0.03	2.78		2.78
Quadris	oz	7.56					0.08	7.64		7.64
App by Air (5 gal)	appl	2.75					0.03	2.78		2.78
Karate Z	oz	2.76					0.03	2.79		2.79
App by Air (5 gal)	appl	5.50					0.04	5.54		5.54
Acephate 90SP	lb	4.85					0.04	4.89		4.89
App by Air (5 gal)	appl	1.38					0.01	1.39		1.39
Intrepid 2F	oz	1.66					0.01	1.67		1.67
Surfactant	pt	0.06						0.06		0.06
App by Air (5 gal)	appl	1.38					0.01	1.39		1.39
Gramoxone Inteon	oz	1.00					0.01	1.01		1.01
Sodium Chlorate 3L	gal	0.84					0.01	0.85		0.85
Surfactant	pt	0.12						0.12		0.12
Header -Soybean	25' Flex		3.33	3.16	2.20		0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	16.90					0.06	16.96		16.96
Roll-Out Pipe Irr.	acre	6.60	19.06	5.58	4.19		0.51	35.94	49.37	85.31
TOTALS		188.12	32.35	13.75	16.86	0.00	5.42	256.50	79.24	335.74

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 2.E Estimated monthly income and expense flows per acre
 Soybeans, early-planted, RR, stale seedbed, 12R 20"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	715.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	5.50	8.26	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	7.56	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	16.42	0.00	0.00	19.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	2.76	6.51	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.90
CUSTOM LIME	9.20	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	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	6.54	0.00	0.00	0.00	0.00	0.00	2.88	1.71	2.75	0.23	0.00	2.75
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	7.33	0.00	0.00	0.00	0.00	0.00	2.20	1.32	12.03	5.84	0.00	3.63
REPAIR & MAINTENANCE	3.04	0.00	0.00	0.00	0.00	0.00	1.72	0.48	4.34	0.92	0.00	3.25
INTEREST ON OP. CAP.	2.13	0.00	0.00	0.00	0.63	0.00	1.42	0.41	0.37	0.24	0.13	0.09
TOTAL DIRECT EXPENSES	50.84	0.00	0.00	0.00	22.55	0.00	66.87	23.56	26.09	23.05	16.92	26.62
NET INCOME	-50.84	0.00	0.00	0.00	-22.55	0.00	-66.87	-23.56	-26.09	-23.05	-16.92	688.38
NET INCOME TO DATE	-50.84	-50.84	-50.84	-50.84	-73.39	-73.39	-140.26	-163.82	-189.91	-212.96	-229.88	458.50

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 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 20"
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	bu	20 -59	37 -41	55 -23	73 -5	91 12	109 30	127 48	145 65	163 83	180 101	198 119
60	39.00	bu	72 -7	93 14	114 35	136 57	157 78	179 100	200 121	222 142	243 164	265 185	286 207
70	45.50	bu	123 44	148 69	174 94	199 119	224 144	249 169	274 194	299 219	324 244	349 269	374 294
80	52.00	bu	175 96	204 125	233 153	261 182	290 211	318 239	347 268	376 296	404 325	433 354	461 382
90	58.50	bu	227 148	259 180	292 212	324 245	356 277	388 309	420 341	453 373	485 405	517 438	549 470
100	65.00	bu	279 200	315 236	351 272	387 307	422 343	458 379	494 415	530 450	565 486	601 522	637 558
110	71.50	bu	331 252	371 291	410 331	449 370	488 409	528 449	567 488	606 527	646 567	685 606	724 645
120	78.00	bu	383 304	426 347	469 390	512 433	555 475	598 518	641 561	683 604	726 647	769 690	812 733
130	84.50	bu	435 356	482 402	528 449	574 495	621 542	667 588	714 635	760 681	807 728	853 774	900 821
140	91.00	bu	487 408	537 458	587 508	637 558	687 608	737 658	787 708	837 758	887 808	937 858	987 908
150	97.50	bu	539 460	593 513	646 567	700 621	753 674	807 728	861 781	914 835	968 889	1022 942	1075 996

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

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.50	2.5000	13.75	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.2800	6.16	_____
Potash (60% K2O)	cwt	23.00	0.4000	9.20	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	4.5000	11.34	_____
HERBICIDES					
Dual Magnum	pt	12.64	1.0000	12.64	_____
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.4400	4.13	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	3.0000	4.98	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.0750	0.18	_____
HAULING					
Haul Soybeans/Field	bu	0.26	30.0000	7.80	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3801	4.31	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1465	1.33	_____
UNALLOCATED LABOR	hour	11.37	0.4341	4.94	_____
DIESEL FUEL					
Tractors	gal	2.39	3.7182	8.88	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	4.05	1.0000	4.05	_____
Tractors	acre	1.51	1.0000	1.51	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.90	1.0000	3.90	_____

TOTAL DIRECT EXPENSES				185.76	_____
FIXED EXPENSES					
Implements	acre	8.65	1.0000	8.65	_____
Tractors	acre	9.85	1.0000	9.85	_____
Harvesters	acre	9.99	1.0000	9.99	_____

TOTAL FIXED EXPENSES				28.49	_____

TOTAL SPECIFIED EXPENSES				214.25	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 3.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 20"
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	30.0000	330.00	_____

TOTAL INCOME				330.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.76	1.0000	13.76	_____
FERTILIZERS	acre	15.36	1.0000	15.36	_____
FUNGICIDES	acre	13.19	1.0000	13.19	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	20.52	1.0000	20.52	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.18	1.0000	0.18	_____
HAULING	acre	7.80	1.0000	7.80	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1465	1.33	_____
OPERATOR LABOR	hour	11.35	0.4823	5.47	_____
UNALLOCATED LABOR	hour	11.37	0.4341	4.94	_____
DIESEL FUEL	gal	2.39	5.1118	12.21	_____
REPAIR & MAINTENANCE	acre	8.02	1.0000	8.02	_____
INTEREST ON OP. CAP.	acre	3.90	1.0000	3.90	_____

TOTAL DIRECT EXPENSES				185.76	_____
RETURNS ABOVE DIRECT EXPENSES				144.24	_____
TOTAL FIXED EXPENSES				28.49	_____

TOTAL SPECIFIED EXPENSES				214.25	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				115.75	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 3.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, 12R 20"
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
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	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.2800				
Potash (60% K2O)	cwt					0.4000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
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				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					30.0000				
TOTALS							0.48	0.48	0.62	0.43

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 3.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, 12R 20"
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		0.96	0.21	0.88		0.09	2.14	1.18	3.32
Disk Harrow	24'		0.48	0.27	0.44		0.05	1.24	0.94	2.18
Lime (Spread)	ton	9.20					0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51		0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	6.16					0.27	6.43		6.43
Potash (60% K2O)	cwt	9.20					0.40	9.60		9.60
Disk Harrow	24'		1.91	1.08	1.77		0.12	4.88	3.77	8.65
Field Cultivate Fld	24'		1.45	0.62	1.35		0.07	3.49	3.22	6.71
Plant & Pre-Rigid	12R-20		2.37	2.03	3.11		0.16	7.67	5.87	13.54
Soybean Seed RR	lb	49.50					1.07	50.57		50.57
Apron Maxx RTA	oz	1.85					0.04	1.89		1.89
Nitragin S	oz	0.74					0.02	0.76		0.76
Gaucho 600	oz	6.56					0.14	6.70		6.70
Dual Magnum	pt	12.64					0.27	12.91		12.91
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50					0.08	3.58		3.58
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
App by Air (5 gal)	appl	4.13					0.06	4.19		4.19
Quadris	oz	11.34					0.16	11.50		11.50
Karate Z	oz	4.13					0.06	4.19		4.19
App by Air (5 gal)	appl	5.50					0.06	5.56		5.56
Acephate 90SP	lb	4.85					0.05	4.90		4.90
App by Air (5 gal)	appl	4.13					0.04	4.17		4.17
Intrepid 2F	oz	4.98					0.05	5.03		5.03
Surfactant	pt	0.18						0.18		0.18
Header -Soybean	25' Flex		3.33	3.16	2.20		0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	7.80					0.03	7.83		7.83
TOTALS		149.89	12.21	8.02	11.74	0.00	3.90	185.76	28.49	214.25

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 3.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, 12R 20"
Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	330.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	9.63	0.00	0.00
FERTILIZERS	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	11.34	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	4.13	9.83	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80
CUSTOM LIME	9.20	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	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	1.83	0.00	0.00	0.00	0.00	1.77	5.20	0.74	0.00	0.00	0.00	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	0.00	0.00	0.00	0.00	1.91	4.48	0.66	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.65	0.00	0.00	0.00	0.00	1.08	2.89	0.24	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	1.26	0.00	0.00	0.00	0.00	0.12	1.89	0.09	0.28	0.20	0.00	0.06
TOTAL DIRECT EXPENSES	30.13	0.00	0.00	0.00	0.00	4.88	89.25	5.23	19.88	19.84	0.00	16.55
NET INCOME	-30.13	0.00	0.00	0.00	0.00	-4.88	-89.25	-5.23	-19.88	-19.84	0.00	313.45
NET INCOME TO DATE	-30.13	-30.13	-30.13	-30.13	-30.13	-35.01	-124.26	-129.49	-149.37	-169.21	-169.21	144.24

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, 12R 20"
 Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
PERCENT YIELD UNIT			-----dollars-----										
50	15.00	bu	-58 -86	-49 -78	-41 -70	-33 -61	-25 -53	-16 -45	-8 -37	-0 -28	7 -20	16 -12	24 -4
60	18.00	bu	-34 -62	-24 -52	-14 -42	-4 -32	5 -23	15 -13	25 -3	35 6	45 16	54 26	64 36
70	21.00	bu	-10 -38	1 -27	12 -15	24 -4	36 7	47 19	59 30	70 42	82 53	93 65	105 76
80	24.00	bu	13 -14	27 -1	40 11	53 24	66 38	79 51	93 64	106 77	119 90	132 104	145 117
90	27.00	bu	37 9	52 24	67 38	82 53	97 68	112 83	126 98	141 113	156 128	171 142	186 157
100	30.00	bu	61 33	78 49	94 66	111 82	127 99	144 115	160 132	177 148	193 165	210 181	226 198
110	33.00	bu	85 57	103 75	122 93	140 111	158 129	176 147	194 166	212 184	230 202	249 220	267 238
120	36.00	bu	109 81	129 100	149 120	169 140	188 160	208 180	228 199	248 219	268 239	287 259	307 279
130	39.00	bu	133 105	155 126	176 148	197 169	219 190	240 212	262 233	283 255	305 276	326 298	348 319
140	42.00	bu	157 129	180 152	203 175	226 198	250 221	273 244	296 267	319 290	342 313	365 337	388 360
150	45.00	bu	181 153	206 177	231 202	255 227	280 252	305 276	330 301	354 326	379 351	404 375	429 400

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

Table 4.A Estimated costs per acre
Soybeans, May-planted, RR, 12R 20"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	6.0000	15.12	_____
HERBICIDES					
Dual Magnum	pt	12.64	1.0000	12.64	_____
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.9200	5.51	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	53.0000	13.78	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.6035	6.85	_____
Harvesters	hour	11.35	0.1021	1.16	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.1465	1.33	_____
UNALLOCATED LABOR	hour	11.37	0.4525	5.15	_____
DIESEL FUEL					
Tractors	gal	2.39	5.5059	13.16	_____
Harvesters	gal	2.39	1.3935	3.33	_____
Contour Flood Irr.	gal	2.39	10.9974	26.28	_____
REPAIR & MAINTENANCE					
Implements	acre	4.78	1.0000	4.78	_____
Tractors	acre	2.27	1.0000	2.27	_____
Harvesters	acre	2.46	1.0000	2.46	_____
Contour Flood Irr.	acre	10.32	1.0000	10.32	_____
INTEREST ON OP. CAP.	acre	5.16	1.0000	5.16	_____
TOTAL DIRECT EXPENSES				260.05	_____
FIXED EXPENSES					
Implements	acre	10.85	1.0000	10.85	_____
Tractors	acre	14.71	1.0000	14.71	_____
Harvesters	acre	9.99	1.0000	9.99	_____
Contour Flood Irr.	acre	34.52	1.0000	34.52	_____
TOTAL FIXED EXPENSES				70.07	_____
TOTAL SPECIFIED EXPENSES				330.12	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 4.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, 12R 20"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	53.0000	583.00	_____

TOTAL INCOME				583.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	16.97	1.0000	16.97	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	23.56	1.0000	23.56	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	13.78	1.0000	13.78	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1465	1.33	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	11.35	0.7057	8.01	_____
UNALLOCATED LABOR	hour	11.37	0.4525	5.15	_____
DIESEL FUEL	gal	2.39	17.8970	42.77	_____
REPAIR & MAINTENANCE	acre	19.83	1.0000	19.83	_____
INTEREST ON OP. CAP.	acre	5.16	1.0000	5.16	_____

TOTAL DIRECT EXPENSES				260.05	_____
RETURNS ABOVE DIRECT EXPENSES				322.95	_____
TOTAL FIXED EXPENSES				70.07	_____

TOTAL SPECIFIED EXPENSES				330.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				252.88	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 4.C Estimated resource use for field operations, per acre
 Soybeans, May-planted, RR, 12R 20"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
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	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
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				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					53.0000				
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.70	0.70	1.16	0.45

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 4.D Estimated costs for field operations, per acre
 Soybeans, May-planted, RR, 12R 20"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Disk Harrow	24'		1.91	1.08	1.77		0.21	4.97	3.77	8.74
Lime (Spread)	ton	9.20					0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51		0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	8.80					0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80					0.60	14.40		14.40
Disk Harrow	24'		1.91	1.08	1.77		0.12	4.88	3.77	8.65
Field Cultivate Fld	24'		1.45	0.62	1.35		0.07	3.49	3.22	6.71
Plant & Pre-Rigid	12R-20		2.37	2.03	3.11		0.16	7.67	5.87	13.54
Soybean Seed RR	lb	49.50					1.07	50.57		50.57
Apron Maxx RTA	oz	1.85					0.04	1.89		1.89
Nitragin S	oz	0.74					0.02	0.76		0.76
Gaucho 600	oz	6.56					0.14	6.70		6.70
Dual Magnum	pt	12.64					0.27	12.91		12.91
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50					0.08	3.58		3.58
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
App by Air (5 gal)	appl	5.50					0.08	5.58		5.58
Quadris	oz	15.12					0.22	15.34		15.34
Karate Z	oz	5.51					0.08	5.59		5.59
App by Air (5 gal)	appl	5.50					0.06	5.56		5.56
Acephate 90SP	lb	4.85					0.05	4.90		4.90
App by Air (5 gal)	appl	5.50					0.06	5.56		5.56
Intrepid 2F	oz	6.64					0.07	6.71		6.71
Surfactant	pt	0.24						0.24		0.24
Header -Soybean	25' Flex		3.33	3.16	2.20		0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	13.78					0.05	13.83		13.83
Contour Flood Irr.	acre	2.25	30.09	11.21	5.12		0.72	49.39	39.93	89.32
TOTALS		174.98	42.77	19.83	17.31	0.00	5.16	260.05	70.07	330.12

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 4.E Estimated monthly income and expense flows per acre
 Soybeans, May-planted, RR, 12R 20"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	583.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	11.00	0.00	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	15.12	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	5.51	11.49	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	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	13.78
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	9.20	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	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	2.28	0.00	0.00	0.00	0.00	1.77	5.65	2.37	1.45	1.45	0.14	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.30	0.00	0.00	0.00	0.00	1.91	4.48	10.84	9.84	9.84	0.23	3.33
REPAIR & MAINTENANCE	1.25	0.00	0.00	0.00	0.00	1.08	2.89	7.21	2.09	2.09	0.06	3.16
INTEREST ON OP. CAP.	1.64	0.00	0.00	0.00	0.00	0.12	1.90	0.46	0.57	0.39	0.00	0.08
TOTAL DIRECT EXPENSES	39.27	0.00	0.00	0.00	0.00	4.88	89.71	26.63	40.08	36.50	0.43	22.55
NET INCOME	-39.27	0.00	0.00	0.00	0.00	-4.88	-89.71	-26.63	-40.08	-36.50	-0.43	560.45
NET INCOME TO DATE	-39.27	-39.27	-39.27	-39.27	-39.27	-44.15	-133.86	-160.49	-200.57	-237.07	-237.50	322.95

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, 12R 20"
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	-----dollars-----										
50	26.50	bu	-34	-19	-5	9	23	38	52	67	82	96	111
			-104	-90	-75	-60	-46	-31	-17	-2	12	26	41
60	31.80	bu	7	25	42	60	77	95	112	130	147	165	182
			-62	-44	-27	-9	7	25	42	60	77	95	112
70	37.10	bu	50	70	90	111	131	152	172	193	213	233	254
			-19	0	20	41	61	82	102	122	143	163	184
80	42.40	bu	92	115	139	162	185	209	232	255	279	302	325
			22	45	69	92	115	139	162	185	209	232	255
90	47.70	bu	134	161	187	213	239	266	292	318	344	370	397
			64	91	117	143	169	195	222	248	274	300	327
100	53.00	bu	177	206	235	264	293	322	352	381	410	439	468
			107	136	165	194	223	252	282	311	340	369	398
110	58.30	bu	219	251	283	315	347	379	411	443	476	508	540
			149	181	213	245	277	309	341	373	405	438	470
120	63.60	bu	261	296	331	366	401	436	471	506	541	576	611
			191	226	261	296	331	366	401	436	471	506	541
130	68.90	bu	304	342	380	417	455	493	531	569	607	645	683
			234	272	309	347	385	423	461	499	537	575	613
140	74.20	bu	346	387	428	468	509	550	591	632	673	713	754
			276	317	358	398	439	480	521	562	602	643	684
150	79.50	bu	388	432	476	520	563	607	651	694	738	782	826
			318	362	406	450	493	537	581	624	668	712	756

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

Table 5.A Estimated costs per acre
Soybeans after wheat, RR, 12R 20"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	6.0000	15.12	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	5.0000	8.75	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.7000	4.88	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	4.0000	6.64	_____
Baythroid XL	oz	2.17	2.1300	4.62	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	45.0000	11.70	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.1889	2.14	_____
Harvesters	hour	11.35	0.1021	1.16	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.1536	1.39	_____
UNALLOCATED LABOR	hour	11.38	0.2503	2.85	_____
DIESEL FUEL					
Tractors	gal	2.39	1.8474	4.41	_____
Harvesters	gal	2.39	1.3935	3.33	_____
1/2-mi Pivot Irr.	gal	2.39	14.0014	33.47	_____
REPAIR & MAINTENANCE					
Implements	acre	2.75	1.0000	2.75	_____
Tractors	acre	0.75	1.0000	0.75	_____
Harvesters	acre	2.46	1.0000	2.46	_____
1/2-mi Pivot Irr.	acre	9.32	1.0000	9.32	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____
TOTAL DIRECT EXPENSES				245.21	_____
FIXED EXPENSES					
Implements	acre	4.94	1.0000	4.94	_____
Tractors	acre	4.90	1.0000	4.90	_____
Harvesters	acre	9.99	1.0000	9.99	_____
1/2-mi Pivot Irr.	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				54.16	_____
TOTAL SPECIFIED EXPENSES				299.37	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 5.B Summary of estimated costs and returns per acre
 Soybeans after wheat, RR, 12R 20"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	45.0000	495.00	_____

TOTAL INCOME				495.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	16.97	1.0000	16.97	_____
HERBICIDES	acre	21.39	1.0000	21.39	_____
INSECTICIDES	acre	27.55	1.0000	27.55	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	11.70	1.0000	11.70	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1536	1.39	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	11.35	0.2910	3.30	_____
UNALLOCATED LABOR	hour	11.38	0.2503	2.85	_____
DIESEL FUEL	gal	2.39	17.2424	41.21	_____
REPAIR & MAINTENANCE	acre	15.28	1.0000	15.28	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____

TOTAL DIRECT EXPENSES				245.21	_____
RETURNS ABOVE DIRECT EXPENSES				249.79	_____
TOTAL FIXED EXPENSES				54.16	_____

TOTAL SPECIFIED EXPENSES				299.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				195.63	_____

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 5.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, 12R 20"
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
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				
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	Jun		0.10	0.10	0.20	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e.	pt					1.0000				
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/Field	bu					45.0000				
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.29	0.29	0.49	0.25

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 5.D Estimated costs for field operations, per acre
 Soybeans after wheat, RR, 12R 20"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	9.20						0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.50			0.05	1.11	0.65	1.76
Phosphorus(46% P2O5)	cwt	8.80						0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80						0.60	14.40		14.40
Spray (Broadcast)	60'		0.66	0.24	0.73			0.03	1.66	0.89	2.55
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Plant & Pre-Rigid	12R-20		2.37	2.03	3.06			0.13	7.59	5.87	13.46
Soybean Seed RR	lb	49.50						0.89	50.39		50.39
Apron Maxx RTA	oz	1.85						0.03	1.88		1.88
Nitragin S	oz	0.74						0.01	0.75		0.75
Gaucho 600	oz	6.56						0.12	6.68		6.68
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Glyphosate 3lbs a.e.	pt	3.50						0.05	3.55		3.55
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Glyphosate 3lbs a.e.	pt	1.75						0.03	1.78		1.78
App by Air (5 gal)	appl	5.50						0.06	5.56		5.56
Quadris	oz	15.12						0.16	15.28		15.28
Karate Z	oz	4.88						0.05	4.93		4.93
App by Air (5 gal)	appl	5.50						0.06	5.56		5.56
Acephate 90SP	lb	4.85						0.05	4.90		4.90
App by Air (5 gal)	appl	5.50						0.06	5.56		5.56
Intrepid 2F	oz	6.64						0.07	6.71		6.71
Surfactant	pt	0.24							0.24		0.24
Baythroid XL	oz	4.62						0.05	4.67		4.67
Header -Soybean	25' Flex		3.33	3.16	2.16			0.03	8.68	11.08	19.76
Haul Soybeans/Field	bu	11.70						0.04	11.74		11.74
1/2-mi Pivot Irr.	acre		33.47	9.32	0.47			0.65	43.91	34.33	78.24
TOTALS		176.39	41.21	15.28	8.01	0.00		4.32	245.21	54.16	299.37

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

Table 5.E Estimated monthly income and expense flows per acre
 Soybeans after wheat, RR, 12R 20"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	495.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.50	0.00	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	15.12	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.14	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	20.99	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	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	11.70
CUSTOM LIME	9.20	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	0.74	0.00	0.00	0.00	0.00
LABOR	0.50	0.00	0.00	0.00	0.00	0.00	0.34	3.83	1.14	0.04	0.00	2.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.39	0.00	0.00	0.00	0.00	0.00	0.00	13.07	14.38	10.04	0.00	3.33
REPAIR & MAINTENANCE	0.17	0.00	0.00	0.00	0.00	0.00	0.00	10.28	1.11	0.56	0.00	3.16
INTEREST ON OP. CAP.	1.43	0.00	0.00	0.00	0.00	0.00	0.01	1.83	0.31	0.67	0.00	0.07
TOTAL DIRECT EXPENSES	34.29	0.00	0.00	0.00	0.00	0.00	0.35	103.80	22.19	64.16	0.00	20.42
NET INCOME	-34.29	0.00	0.00	0.00	0.00	0.00	-0.35	-103.80	-22.19	-64.16	0.00	474.58
NET INCOME TO DATE	-34.29	-34.29	-34.29	-34.29	-34.29	-34.29	-34.64	-138.44	-160.63	-224.79	-224.79	249.79

Note: Cost of production estimates are based on 2010 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 \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Soybeans after wheat, RR, 12R 20"
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	-----dollars-----										
50	22.50	bu	-53	-41	-28	-16	-4	8	20	32	45	57	70
			-107	-95	-83	-70	-58	-46	-33	-21	-8	3	15
60	27.00	bu	-17	-2	11	26	41	56	71	86	101	115	130
			-71	-57	-42	-27	-12	2	17	32	46	61	76
70	31.50	bu	18	35	52	70	87	104	122	139	156	174	191
			-35	-18	-1	16	33	50	67	85	102	119	137
80	36.00	bu	54	73	93	113	133	153	172	192	212	232	252
			-0	19	39	59	79	98	118	138	158	178	197
90	40.50	bu	90	112	134	156	179	201	223	246	268	290	312
			35	58	80	102	125	147	169	191	214	236	258
100	45.00	bu	126	150	175	200	225	249	274	299	324	348	373
			71	96	121	146	170	195	220	245	269	294	319
110	49.50	bu	161	189	216	243	270	298	325	352	379	407	434
			107	135	162	189	216	243	271	298	325	352	380
120	54.00	bu	197	227	257	287	316	346	376	405	435	465	494
			143	173	203	232	262	292	321	351	381	411	440
130	58.50	bu	233	266	298	330	362	394	426	459	491	523	555
			179	211	244	276	308	340	372	404	437	469	501
140	63.00	bu	269	304	339	373	408	443	477	512	547	581	616
			215	250	284	319	354	388	423	458	492	527	562
150	67.50	bu	305	342	380	417	454	491	528	565	602	639	677
			251	288	325	363	400	437	474	511	548	585	622

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

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

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

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

Table 6.A Estimated costs per acre
Soybeans, early-planted, RR, reduced tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

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

TOTAL DIRECT EXPENSES				214.62	_____
FIXED EXPENSES					
Implements	acre	8.09	1.0000	8.09	_____
Tractors	acre	9.82	1.0000	9.82	_____
Harvesters	acre	9.99	1.0000	9.99	_____

TOTAL FIXED EXPENSES				27.90	_____

TOTAL SPECIFIED EXPENSES				242.52	_____

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 6.B Summary of estimated costs and returns per acre
Soybeans, early-planted, RR, reduced tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	43.0000	473.00	_____

TOTAL INCOME				473.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.25	1.0000	8.25	_____
HARVEST AIDS	acre	2.00	1.0000	2.00	_____
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.65	1.0000	9.65	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	11.41	1.0000	11.41	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	11.18	1.0000	11.18	_____
CUSTOM LIME	acre	11.50	1.0000	11.50	_____
HAND LABOR	hour	9.06	0.1857	1.68	_____
OPERATOR LABOR	hour	11.35	0.4813	5.47	_____
UNALLOCATED LABOR	hour	11.35	0.4332	4.92	_____
DIESEL FUEL	gal	2.39	5.1019	12.18	_____
REPAIR & MAINTENANCE	acre	7.84	1.0000	7.84	_____
INTEREST ON OP. CAP.	acre	5.22	1.0000	5.22	_____

TOTAL DIRECT EXPENSES				214.62	_____
RETURNS ABOVE DIRECT EXPENSES				258.38	_____
TOTAL FIXED EXPENSES				27.90	_____

TOTAL SPECIFIED EXPENSES				242.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				230.48	_____

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 6.C Estimated resource use for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaucho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Headline	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			0.50	Aug	0.5000				
Gramoxone Inteon	oz					8.0000				
Surfactant	pt					0.1000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					43.0000				
TOTALS							0.48	0.48	0.66	0.43

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 6.D Estimated costs for field operations, per acre
Soybeans, early-planted, RR, reduced tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

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

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 6.E Estimated monthly income and expense flows per acre
Soybeans, early-planted, RR, reduced tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

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

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Soybeans, early-planted, RR, reduced tillage, 12R 20"
 Non-Delta Area, Mississippi, 2011

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

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

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

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

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

Table 7.A Estimated costs per acre
Soybeans, May-planted, RR, convent. tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

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

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 7.B Summary of estimated costs and returns per acre
Soybeans, May-planted, RR, convent. tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	30.0000	330.00	_____

TOTAL INCOME				330.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	18.77	1.0000	18.77	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.12	1.0000	0.12	_____
HAULING	acre	7.80	1.0000	7.80	_____
CUSTOM LIME	acre	11.50	1.0000	11.50	_____
HAND LABOR	hour	9.06	0.2000	1.81	_____
OPERATOR LABOR	hour	11.35	0.5027	5.71	_____
UNALLOCATED LABOR	hour	11.36	0.4524	5.14	_____
DIESEL FUEL	gal	2.39	5.3107	12.68	_____
REPAIR & MAINTENANCE	acre	8.27	1.0000	8.27	_____
INTEREST ON OP. CAP.	acre	3.95	1.0000	3.95	_____

TOTAL DIRECT EXPENSES				191.82	_____
RETURNS ABOVE DIRECT EXPENSES				138.18	_____
TOTAL FIXED EXPENSES				29.12	_____

TOTAL SPECIFIED EXPENSES				220.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				109.06	_____

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 7.C Estimated resource use for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Nov	0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Apr		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaucha 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Intrepid 2F	oz					2.0000				
Baythroid XL	oz					1.0650				
Surfactant	pt					0.0500				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					30.0000				
TOTALS							0.50	0.50	0.70	0.45

Note: Cost of production estimates are based on 2010 input prices.
Fertilization decisions should be based on soil tests.
 The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 7.D Estimated costs for field operations, per acre
Soybeans, May-planted, RR, convent. tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

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

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 7.E Estimated monthly income and expense flows per acre
Soybeans, May-planted, RR, convent. tillage, 12R 20"
Non-Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	330.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	37.52	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	7.56	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	1.73	10.48	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80
CUSTOM LIME	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	3.06	5.20	0.74	0.36	1.10	0.00	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	2.89	4.48	0.66	0.33	0.99	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	1.50	2.89	0.24	0.12	0.36	0.00	3.16
INTEREST ON OP. CAP.	0.50	0.00	0.00	0.00	0.00	1.14	1.87	0.09	0.14	0.15	0.00	0.06
TOTAL DIRECT EXPENSES	12.00	0.00	0.00	0.00	0.00	46.11	88.49	5.23	10.24	13.20	0.00	16.55
NET INCOME	-12.00	0.00	0.00	0.00	0.00	-46.11	-88.49	-5.23	-10.24	-13.20	0.00	313.45
NET INCOME TO DATE	-12.00	-12.00	-12.00	-12.00	-12.00	-58.11	-146.60	-151.83	-162.07	-175.27	-175.27	138.18

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Soybeans, May-planted, RR, convent. tillage, 12R 20"
 Non-Delta Area, Mississippi, 2011

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

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

Table 8.A Estimated costs per acre
Soybeans after wheat, RR, no-till, 12R 20"
Non-Delta Area, Mississippi, 2011

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

TOTAL DIRECT EXPENSES				176.68	_____
FIXED EXPENSES					
Implements	acre	6.24	1.0000	6.24	_____
Tractors	acre	7.31	1.0000	7.31	_____
Harvesters	acre	9.99	1.0000	9.99	_____

TOTAL FIXED EXPENSES				23.54	_____

TOTAL SPECIFIED EXPENSES				200.22	_____

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.B Summary of estimated costs and returns per acre
Soybeans after wheat, RR, no-till, 12R 20"
Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	25.0000	275.00	_____

TOTAL INCOME				275.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	37.52	1.0000	37.52	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	21.39	1.0000	21.39	_____
INSECTICIDES	acre	21.59	1.0000	21.59	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
HAULING	acre	6.50	1.0000	6.50	_____
HAND LABOR	hour	9.06	0.2148	1.95	_____
OPERATOR LABOR	hour	11.35	0.3840	4.36	_____
UNALLOCATED LABOR	hour	11.41	0.3302	3.77	_____
DIESEL FUEL	gal	2.39	4.1501	9.91	_____
REPAIR & MAINTENANCE	acre	7.09	1.0000	7.09	_____
INTEREST ON OP. CAP.	acre	3.69	1.0000	3.69	_____

TOTAL DIRECT EXPENSES				176.68	_____
RETURNS ABOVE DIRECT EXPENSES				98.32	_____
TOTAL FIXED EXPENSES				23.54	_____

TOTAL SPECIFIED EXPENSES				200.22	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				74.78	_____

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.C Estimated resource use for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 20"
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Nov		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
NT Plant&Pre-Rigid	12R-20	MFWD 190	0.105	1.00	Jun		0.10	0.10	0.21	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Gaicho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e.	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Quadris	oz					3.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.75	Aug		0.02	0.02	0.03	0.01
Intrepid 2F	oz					3.0000				
Baythroid XL	oz					1.5975				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans/Field	bu					25.0000				
TOTALS							0.38	0.38	0.59	0.33

Note: Cost of production estimates are based on 2010 input prices.
Fertilization decisions should be based on soil tests.
 The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.D Estimated costs for field operations, per acre
Soybeans after wheat, RR, no-till, 12R 20"
Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Spin Spreader	5 ton		0.98	0.42	1.27			0.12	2.79	1.61	4.40
Phosphorus(46% P2O5)	cwt	14.52						0.63	15.15		15.15
Potash (60% K2O)	cwt	23.00						1.00	24.00		24.00
Spray (Broadcast)	60'		0.66	0.24	0.73			0.03	1.66	0.89	2.55
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
NT Plant&Pre-Rigid	12R-20		2.47	2.37	3.19			0.14	8.17	6.61	14.78
Soybean Seed RR	lb	49.50						0.89	50.39		50.39
Apron Maxx RTA	oz	1.85						0.03	1.88		1.88
Gaucho 600	oz	6.56						0.12	6.68		6.68
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Glyphosate 3lbs a.e.	pt	3.50						0.05	3.55		3.55
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Glyphosate 3lbs a.e.	pt	1.75						0.03	1.78		1.78
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Dimilin 2L	oz	1.73						0.02	1.75		1.75
Quadris	oz	7.56						0.08	7.64		7.64
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Acephate 90SP	lb	4.85						0.05	4.90		4.90
Spray (Broadcast)	60'		0.49	0.18	0.55			0.01	1.23	0.67	1.90
Intrepid 2F	oz	4.98						0.05	5.03		5.03
Baythroid XL	oz	3.47						0.04	3.51		3.51
Header -Soybean	25' Flex		3.33	3.16	2.16			0.03	8.68	11.08	19.76
Haul Soybeans/Field	bu	6.50						0.02	6.52		6.52
TOTALS		145.91	9.91	7.09	10.08	0.00	3.69	176.68	23.54	200.22	

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.E Estimated monthly income and expense flows per acre
Soybeans after wheat, RR, no-till, 12R 20"
Non-Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	275.00
DIRECT EXPENSES												
FERTILIZERS	37.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	7.56	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.14	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	15.03	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50
LABOR	1.27	0.00	0.00	0.00	0.00	0.00	0.00	3.92	1.09	1.64	0.00	2.16
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.98	0.00	0.00	0.00	0.00	0.00	0.00	3.13	0.99	1.48	0.00	3.33
REPAIR & MAINTENANCE	0.42	0.00	0.00	0.00	0.00	0.00	0.00	2.61	0.36	0.54	0.00	3.16
INTEREST ON OP. CAP.	1.75	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.11	0.28	0.00	0.05
TOTAL DIRECT EXPENSES	41.94	0.00	0.00	0.00	0.00	0.00	0.00	85.21	7.80	26.53	0.00	15.20
NET INCOME	-41.94	0.00	0.00	0.00	0.00	0.00	0.00	-85.21	-7.80	-26.53	0.00	259.80
NET INCOME TO DATE	-41.94	-41.94	-41.94	-41.94	-41.94	-41.94	-41.94	-127.15	-134.95	-161.48	-161.48	98.32

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

Fertilization decisions should be based on soil tests.

The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Soybeans after wheat, RR, no-till, 12R 20"
 Non-Delta Area, Mississippi, 2011

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

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

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

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

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

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2011

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (250-299 hp)	265 hp	231,000	300	8	13.64	11.35	32.59	24.06	68.01	97.79	165.80
Combine (300-349 hp)	325 hp	251,000	300	8	16.73	11.35	39.98	26.14	77.48	106.26	183.74
Combine (350-399 hp)	355 hp	269,000	300	8	18.27	11.35	43.66	28.02	83.03	113.88	196.91
Combine (400-449 hp)	425 hp	302,000	300	8	21.87	11.35	52.28	31.45	95.09	127.85	222.94
Combine (450-499hp)	475 hp	337,000	300	8	24.44	11.35	58.43	35.10	104.88	142.66	247.55
Cotton Stripper	173 hp	145,000	200	8	8.08	11.35	19.31	22.65	53.31	92.07	145.39
Tractor(20-39hp)CB	MFWD 30	23,500	600	8	1.54	11.35	3.69	0.73	15.77	4.57	20.34
Tractor(20-39hp)RB	MFWD 30	17,600	600	8	1.54	11.35	3.69	0.55	15.59	3.42	19.01
Tractor(40-59hp)CB	2WD 50	29,300	600	8	2.57	11.35	6.15	0.91	18.41	5.69	24.11
Tractor(40-59hp)CB	MFWD 50	31,900	600	8	2.57	11.35	6.15	0.99	18.49	6.20	24.70
Tractor(40-59hp)RB	2WD 50	22,500	600	8	2.57	11.35	6.15	0.70	18.20	4.37	22.58
Tractor(40-59hp)RB	MFWD 50	26,600	600	8	2.57	11.35	6.15	0.83	18.33	5.17	23.50
Tractor(60-89hp)CB	2WD 75	40,100	600	8	3.86	11.35	9.22	1.25	21.82	7.80	29.63
Tractor(60-89hp)CB	MFWD 75	43,900	600	8	3.86	11.35	9.22	1.37	21.94	8.53	30.48
Tractor(60-89hp)RB	2WD 75	32,100	600	8	3.86	11.35	9.22	1.00	21.57	6.24	27.82
Tractor(60-89hp)RB	MFWD 75	35,900	600	8	3.86	11.35	9.22	1.12	21.69	6.98	28.68
Tractor(90-119hp)CB	2WD 105	62,800	600	8	5.40	11.35	12.91	1.96	26.22	12.21	38.44
Tractor(90-119hp)CB	MFWD 105	67,600	600	8	5.40	11.35	12.91	2.11	26.37	13.15	39.52
Tractor(90-119hp)RB	2WD 105	48,600	600	8	5.40	11.35	12.91	1.51	25.78	9.45	35.23
Tractor(90-119hp)RB	MFWD 105	53,400	600	8	5.40	11.35	12.91	1.66	25.93	10.38	36.32
Tractor(120-139hp)CB	2WD 130	85,400	600	8	6.69	11.35	15.99	2.66	30.01	16.61	46.62
Tractor(120-139hp)CB	MFWD 130	92,200	600	8	6.69	11.35	15.99	2.88	30.22	17.93	48.15
Tractor(140-159hp)CB	2WD 150	103,300	600	8	7.72	11.35	18.45	3.22	33.03	20.09	53.12
Tractor(140-159hp)CB	MFWD 150	109,900	600	8	7.72	11.35	18.45	3.43	33.23	21.37	54.61
Tractor(160-179hp)CB	2WD 170	109,400	600	8	8.75	11.35	20.91	3.41	35.68	22.21	57.90
Tractor(160-179hp)CB	MFWD 170	128,400	600	8	8.75	11.35	20.91	4.01	36.27	26.07	62.35
Tractor(180-199hp)CB	MFWD 190	127,500	600	8	9.77	11.35	23.37	3.98	38.70	25.89	64.60
Tractor(200-249hp)CB	MFWD 225	161,400	600	8	11.58	11.35	27.67	5.04	44.07	32.78	76.85
Tractor(200-249hp)CB	Track 225	201,400	600	8	11.58	11.35	27.67	6.29	45.32	40.90	86.22
Tractor(250-349hp)CB	4WD 300	196,500	600	8	15.44	11.35	36.90	6.14	54.39	39.90	94.30
Tractor(250-349hp)CB	MFWD 300	200,500	600	8	15.44	11.35	36.90	6.26	54.52	40.72	95.24
Tractor(250-349hp)CB	Track 300	214,200	600	8	15.44	11.35	36.90	6.69	54.94	43.50	98.45
Tractor(350-449hp)CB	4WD 400	231,800	600	8	20.58	11.35	49.20	7.24	67.80	47.07	114.88
Tractor(350-449hp)CB	Track 400	264,700	600	8	20.58	11.35	49.20	8.27	68.82	53.76	122.59
Tractor(450-550hp)CB	4WD 500	272,200	600	8	25.73	11.35	61.50	8.50	81.36	55.28	136.64
Tractor(450-550hp)CB	Track 500	288,300	600	8	25.73	11.35	61.50	9.00	81.86	58.55	140.42
Utility Vehicle	500 CC	6,200	200	8	0.40	11.35	1.04	0.96	13.36	3.93	17.29
Utility Vehicle	600 CC	9,500	200	8	0.50	11.35	1.30	1.48	14.13	6.03	20.17
Utility Vehicle	800 CC	10,800	200	8	0.70	11.35	1.82	1.68	14.86	6.85	21.72

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2011

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Backhoe	2WD Cab	75,200	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30 (250)	262,000	200	8	12.86	0.327	6.68	10.06	13.40	30.15	54.46	84.62
Cotton Picker	4R-30 (350)	350,000	200	8	18.01	0.327	6.68	14.09	17.90	38.68	72.76	111.44
Cotton Picker	4R-38 (255)	291,000	200	8	13.12	0.257	5.26	8.08	11.72	25.06	47.63	72.70
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.26	11.09	14.13	30.49	57.45	87.95
Cotton Picker	4R2x1 (350)	380,000	200	8	18.01	0.172	3.51	7.41	10.23	21.16	41.57	62.74
Cotton Picker	5R-30 (250)	285,000	200	8	12.86	0.261	5.34	8.05	11.66	25.06	47.39	72.46
Cotton Picker	5R-36 (250)	290,000	200	8	12.86	0.207	4.22	6.37	9.38	19.99	38.15	58.14
Cotton Picker	6R-30 (355)	418,000	200	8	18.27	0.218	4.45	9.53	14.25	28.24	57.93	86.17
Cotton Picker	6R-38 (355)	417,000	200	8	18.27	0.172	3.51	7.52	11.22	22.26	45.62	67.89
Cotton Picker/Module	4R-38 (365)	470,000	200	8	18.78	0.257	5.26	11.57	18.93	35.76	76.93	112.70
Cotton Picker/Module	6R-30 (365)	523,000	200	8	18.78	0.218	4.45	9.79	17.83	32.08	72.48	104.57
Cotton Picker/Module	6R-30 (500)	570,000	200	8	25.73	0.218	4.45	13.42	19.43	37.31	78.99	116.31
Cotton Picker/Module	6R-38 (365)	521,000	200	8	18.78	0.172	3.51	7.73	14.02	25.28	57.00	82.28
Cotton Picker/Module	6R-38 (500)	571,000	200	8	25.73	0.172	3.51	10.59	15.37	29.48	62.47	91.96
Dry Applicator SP	70'300cuft	257,000	350	8	16.98	0.015	0.23	0.61	0.20	1.06	1.40	2.47
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.55	0.20	0.08	0.84	0.56	1.40
Sprayer 300-450gal	60' 125hp	96,400	350	8	5.66	0.017	0.27	0.23	0.09	0.60	0.61	1.22
Sprayer 300-450gal	80' 125hp	98,700	350	8	6.43	0.013	0.20	0.20	0.06	0.48	0.47	0.95
Sprayer 600-750gal	60' 175hp	149,000	350	8	9.00	0.017	0.27	0.37	0.14	0.79	0.95	1.75
Sprayer 600-825gal	80' 175hp	149,000	350	8	11.81	0.013	0.20	0.37	0.10	0.68	0.71	1.40
Sprayer 600-825gal	90' 250hp	216,000	350	8	12.73	0.011	0.18	0.35	0.13	0.68	0.92	1.60
Sprayer 800gal	100' 250hp	217,000	350	8	14.15	0.010	0.16	0.35	0.12	0.64	0.83	1.48
Sprayer 800gal	80' 250hp	206,000	350	8	12.86	0.013	0.20	0.40	0.14	0.76	0.98	1.75
Sprayer 1000-1400gal	90' 275hp	240,000	350	8	14.15	0.010	0.16	0.35	0.13	0.66	0.92	1.58
Sprayer 1000gal	100' 300hp	242,000	350	8	15.44	0.010	0.16	0.39	0.13	0.69	0.92	1.62
Sprayer 1200+gal	120' 300hp	258,000	350	8	15.44	0.008	0.13	0.32	0.12	0.58	0.82	1.41
Utility Vehicle	20'	10,750	200	8	0.50	0.052	0.83	0.06	0.08	0.99	0.36	1.35
Utility Vehicle	75"ropewic	6,740	200	8	0.40	0.170	2.70	0.17	0.17	3.06	0.73	3.79

Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

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

Table with columns: Item Name, Size, Power Unit, Purchase Price, Annual Use, Useful Life, Perf Rate, Labor, Fuel, ---R&M---, Total, --Fixed--, Total. Sub-headers for R&M, Total, and Fixed are Imp. P.U., Direct, Imp. P.U., Cost. Units are dollars, hours, years, hr/ac, and \$/acre.

(continued)

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

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

Notes:

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

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

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

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

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

Item name		
LABOR TYPES		
		WAGE RATE (\$/HR)
OPERATOR LABOR	hour	11.35
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06
CROP ENTERPRISE		
		UNALLOCATED LABOR MULTIPLIERS (%)
Corn		90
Cotton		80
Grain Sorghum		90
Peanuts		80
Rice		90
Soybeans		90
Wheat		80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2011

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

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

^b The basis is computed by subtracting the 2001-2010 average near futures contract month closings in October from the daily spot cash prices reported in October. Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

^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 94% 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 2010 crop year for soybeans, corn, grain sorghum, and wheat. 2010 Mississippi base loan rate for the Delta area for cotton. 2010 Mississippi loan rate for long grain rice. 2010 national average loan rate for peanuts.

^e Price used in the 2011 MAFES Planning Budgets.

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

Appendix Table 8. Estimated costs for field operations, per acre
 Early soybeans irrigated with roll-out pipe
 160-acre system, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		0.89	0.23	0.43			0.07	1.62	1.19	2.81
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.15	0.05	0.11				0.31	0.18	0.49
Roll-Out Pipe	ft	6.60						0.10	6.70		6.70
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.20	0.05	0.37			0.01	0.63	0.49	1.12
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		0.30	0.09	0.55				0.94	0.73	1.67
Land Forming (\$300)	each									29.07	29.07
Well & Pump, Furrow	each			2.40				0.03	2.43	7.45	9.88
Main Line Pipe	each									4.09	4.09
Engine, RPF, ESB	each									6.17	6.17
1st June Irrigation	ac-in		5.84	0.92				0.10	6.86		6.86
2nd June Irrigation	ac-in		5.84	0.92				0.10	6.86		6.86
July Irrigation	ac-in		5.84	0.92				0.07	6.83		6.83
TOTALS		6.60	19.06	5.58	4.19	0.00		0.51	35.94	49.37	85.31

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

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				0.45			0.01	0.46	0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.34	0.08	0.18			0.01	0.61	1.15
Survey & Mark Levees	acre	2.25						0.04	2.29	2.29
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
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)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
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)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
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)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.23	0.06	0.14				0.43	0.77
Land Forming (\$75)	each								7.27	7.27
Well & Pump, Flood	each			4.80				0.09	4.89	14.91
Engine, CF, 75	each								12.34	12.34
June Irrigation	ac-in		8.76	1.84				0.19	10.79	10.79
July Irrigation	ac-in		8.76	1.84				0.15	10.75	10.75
August Irrigation	ac-in		8.76	1.84				0.11	10.71	10.71
TOTALS		2.25	30.09	11.21	5.12	0.00	0.72	49.39	39.93	89.32

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

Appendix Table 10. Table 2.C 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, 2011

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			6.49			0.12		6.61	27.16
Well & Pump, 1/2 CP	each			0.95			0.02		0.97	2.95
Engine, 1/2 CP, 225	each									4.18
June Irr. 3app@.75"	ac-in		10.04	0.56			0.19		10.79	10.79
July Irr. 4app@.75"	ac-in		13.39	0.75			0.20		14.34	14.34
Aug Irr. 3app@.75"	ac-in		10.04	0.56			0.11		10.71	10.71
TOTALS		0.00	33.47	9.31	0.47	0.00	0.65		43.90	34.29

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

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968."
4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
1. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2010 Planning Budgets." Budget Report No. 2009-04, Department of Agricultural Economics, Mississippi State University, December 2009.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2010 Planning Budgets." Budget Report No. 2009-02, Department of Agricultural Economics, Mississippi State University, December 2009.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2009 Planning Budgets." Budget Report No. 2008-1, Department of Agricultural Economics, Mississippi State University, September 2008.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Mississippi Agricultural Statistics." Mississippi Department of Agriculture and Commerce and Department of Agriculture, Mississippi Agriculture Statistical Service, Jackson, Mississippi.
16. "Rice 2010 Planning Budgets." Budget Report No. 2009-05, Department of Agricultural Economics, Mississippi State University, December 2009.
17. "Soybeans 2010 Planning Budgets." Budget Report No. 2009-03, Department of Agricultural Economics, Mississippi State University, December 2009.
18. "Vegetables 2010 Planning Budgets." Budget Report No. 2009-01, Department of Agricultural Economics, Mississippi State University December 2009.
19. "Peanuts 2010 Planning Budgets." Budget Report No. 2009-08, Department of Agricultural Economics, Mississippi State University, December 2009.



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