

**NON-DELTA
2019
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2018-06**

October 2018

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 2019 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.

The mention in this report of any commercial product does not imply its endorsement by MSU-ES, MAFES, or USDA over other products not named nor does the omission imply they are not satisfactory.

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2019 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 2018. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2018 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 first five trading days in 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 specified harvest month futures contract. 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 through 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
 Cotton, 8R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	0.97	2.3000	2.23	_____
Ethephon 6E	pt	3.53	2.3125	8.16	_____
Tribufos 6lb	pt	10.90	0.5000	5.45	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	20.00	1.5000	30.00	_____
UAN (32%)	gal	1.24	28.9332	35.88	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.51	0.5000	5.76	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.81	2.0000	27.62	_____
Diuron	pt	2.90	1.6000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	8.70	1.7500	15.22	_____
Bidrin 8EC	oz	1.26	0.2000	0.25	_____
Centric 40WG	oz	5.37	2.0000	10.74	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
CSeed B3XF/W3RE/GLTP	thous	2.28	45.0000	102.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.08	32.0000	2.56	_____
ADJUVANTS					
Surfactant	pt	3.59	0.4000	1.44	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.9288	13.21	_____
Self-Propelled	hour	14.23	0.3397	4.83	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	14.20	1.0149	14.42	_____
DIESEL FUEL					
Tractors	gal	2.60	9.0841	23.61	_____
Self-Propelled	gal	2.60	4.6559	12.09	_____
REPAIR & MAINTENANCE					
Implements	acre	10.63	1.0000	10.63	_____
Tractors	acre	5.07	1.0000	5.07	_____
Self-Propelled	acre	14.42	1.0000	14.42	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____
TOTAL DIRECT EXPENSES				599.25	_____
FIXED EXPENSES					
Implements	acre	18.39	1.0000	18.39	_____
Tractors	acre	35.09	1.0000	35.09	_____
Self-Propelled	acre	67.26	1.0000	67.26	_____
TOTAL FIXED EXPENSES				120.74	_____
TOTAL SPECIFIED EXPENSES				719.99	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	1000.0000	741.40	_____
Cotton Seed	lb	0.10	1350.0000	135.00	_____

TOTAL INCOME				876.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.84	1.0000	15.84	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	65.88	1.0000	65.88	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	75.98	1.0000	75.98	_____
INSECTICIDES	acre	41.22	1.0000	41.22	_____
SEED/PLANTS	acre	102.60	1.0000	102.60	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
ADJUVANTS	acre	1.44	1.0000	1.44	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.6139	5.56	_____
OPERATOR LABOR	hour	14.23	1.2686	18.04	_____
UNALLOCATED LABOR	hour	14.20	1.0149	14.42	_____
DIESEL FUEL	gal	2.60	13.7400	35.70	_____
REPAIR & MAINTENANCE	acre	30.12	1.0000	30.12	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____

TOTAL DIRECT EXPENSES				599.25	_____
RETURNS ABOVE DIRECT EXPENSES				277.15	_____

TOTAL FIXED EXPENSES				120.74	_____

TOTAL SPECIFIED EXPENSES				719.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				156.41	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	0.074	0.50	Nov		0.03	0.03	0.03	0.02
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 190	0.074	1.00	May		0.07	0.07	0.14	0.05
CSeed B3XF/W3RE/GLTP	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.2500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	1b			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.26	0.92	1.88	1.01

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	25.31						1.52	26.83	26.83
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Potash (60% K2O)	cwt	30.00						1.80	31.80	31.80
Bed-Paratill Fold	8R-38		2.05	2.03	2.07			0.37	6.52	6.13
Bed/Disk (Hipper)Rd	8R-38		0.94	0.37	0.95			0.14	2.40	1.90
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.05	1.19	1.41
Clarity	pt	5.76						0.23	5.99	5.99
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66	4.66
Surfactant	pt	0.72						0.03	0.75	0.75
Fert Appl (Liquid)	8R-38		1.97	1.40	2.33			0.20	5.90	4.15
UAN (32%)	gal	17.94						0.63	18.57	18.57
Row Cond Rigid	26'		1.52	0.57	1.53			0.11	3.73	3.39
Plant - Folding	8R-38		1.90	1.82	2.59			0.19	6.50	5.83
CSeed B3XF/W3RE/GLTP	thous	102.60						3.08	105.68	105.68
Cotton Seed Trt.	acre	20.00						0.60	20.60	20.60
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41
Gramoxone SL 2.0	oz	7.20						0.22	7.42	7.42
Cotoran	pt	12.84						0.39	13.23	13.23
Surfactant	pt	0.72						0.02	0.74	0.74
Cotton Consultant	acre	8.00						0.24	8.24	8.24
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41
Dual Magnum	pt	13.81						0.41	14.22	14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Acephate 90%	lb	2.17						0.07	2.24	2.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41
Dual Magnum	pt	13.81						0.41	14.22	14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61	4.61
Bidrin 8EC	oz	0.25						0.01	0.26	0.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41
Centric 40WG	oz	10.74						0.27	11.01	11.01
Mepiquat Chloride	oz	1.28						0.03	1.31	1.31
Fert Appl (Liquid)	8R-38		1.97	1.40	2.33			0.14	5.84	4.15
UAN (32%)	gal	17.94						0.45	18.39	18.39
Spray (Direct/Layby)	8R-38		1.70	0.72	2.01			0.09	4.52	3.00
Diuron	pt	4.64						0.09	4.73	4.73
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57	4.57
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41
Mepiquat Chloride	oz	1.28						0.03	1.31	1.31
Acephate 90%	lb	6.53						0.13	6.66	6.66
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41
IncidentalPestTrt\$15	acre	15.00						0.30	15.30	15.30
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41
Acephate 90%	lb	6.53						0.10	6.63	6.63
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41
Thidiazuron 4lb	oz	2.23						0.02	2.25	2.25
Ethephon 6E	pt	7.06						0.07	7.13	7.13
Sprayer 600-750gal	60' 175hp		0.21	0.10	0.27			0.01	0.59	0.70
Tribufos 6lb	pt	5.45						0.05	5.50	5.50
Ethephon 6E	pt	1.10						0.01	1.11	1.11
Cotton Picker	6R-38(355)		8.19	12.52	5.97			0.13	26.81	53.87
Boll Buggy	6R-38(355)		4.38	2.25	4.41			0.06	11.10	9.48
Module Builder	6R-38(355)		4.38	2.43	5.97			0.06	12.84	9.89
Gin & Haul	lb	110.00						0.55	110.55	110.55
Stalk Shredder-Flail	15'		2.80	2.71	2.82			0.04	8.37	5.56
TOTALS		480.66	35.70	30.12	38.02	0.00	14.75	599.25	120.74	719.99

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

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	876.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	30.00	0.00	0.00	0.00	0.00	17.94	0.00	17.94	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.24	0.00	56.62	0.00	9.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.42	10.74	21.53	6.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	102.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.02	0.00	0.00	0.00	0.53	2.33	5.71	2.86	3.07	0.53	0.80	19.17
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	2.99	0.00	0.00	0.00	0.41	1.97	4.65	2.38	2.52	0.41	0.62	19.75
REPAIR & MAINTENANCE	2.40	0.00	0.00	0.00	0.20	1.40	2.99	1.60	1.12	0.20	0.30	19.91
INTEREST ON OP. CAP.	4.48	0.00	0.00	0.00	0.49	0.83	6.13	0.92	0.77	0.12	0.17	0.84
TOTAL DIRECT EXPENSES	79.03	0.00	0.00	0.00	12.59	24.47	210.84	37.72	39.41	7.79	17.73	169.67
NET INCOME	-79.03	0.00	0.00	0.00	-12.59	-24.47	-210.84	-37.72	-39.41	-7.79	-17.73	706.73
NET INCOME TO DATE	-79.03	-79.03	-79.03	-79.03	-91.62	-116.09	-326.93	-364.65	-404.06	-411.85	-429.58	277.15

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.63	0.66	0.70	0.74	0.77	0.81	0.85	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-130 -251	-112 -233	-93 -214	-75 -196	-56 -177	-38 -159	-19 -140	-1 -121	17 -103	35 -84	54 -66
60	600.00	lb	-86 -207	-64 -184	-41 -162	-19 -140	2 -118	24 -95	47 -73	69 -51	91 -29	113 -6	136 15
70	700.00	lb	-41 -162	-15 -136	10 -110	35 -84	61 -58	87 -32	113 -6	139 19	165 45	191 70	217 96
80	800.00	lb	2 -118	32 -88	62 -58	91 -29	121 0	150 30	180 59	210 89	239 119	269 148	299 178
90	900.00	lb	47 -73	80 -40	113 -6	147 26	180 59	214 93	247 126	280 160	314 193	347 226	380 260
100	1000.00	lb	91 -28	128 8	165 45	203 82	240 119	277 156	314 193	351 230	388 267	425 304	462 341
110	1100.00	lb	136 15	177 56	217 97	258 137	299 178	340 219	381 260	421 301	462 341	503 382	544 423
120	1200.00	lb	180 60	225 104	269 149	314 193	358 238	403 282	447 327	492 371	536 416	581 460	625 505
130	1300.00	lb	225 104	273 152	321 201	370 249	418 297	466 345	514 393	562 442	610 490	659 538	707 586
140	1400.00	lb	270 149	321 201	373 253	425 304	477 356	529 408	581 460	633 512	685 564	737 616	788 668
150	1500.00	lb	314 193	370 249	425 305	481 360	536 416	592 471	648 527	703 583	759 638	814 694	870 749

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 2018 input prices.

Table 2.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	0.97	2.3000	2.23	_____
Ethephon 6E	pt	3.53	2.3125	8.16	_____
Tribufos 6lb	pt	10.90	0.5000	5.45	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	20.00	1.5000	30.00	_____
UAN (32%)	gal	1.24	18.4000	22.82	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.51	0.5000	5.76	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.81	2.0000	27.62	_____
Diuron	pt	2.90	1.6000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	8.70	1.7500	15.22	_____
Bidrin 8EC	oz	1.26	0.2000	0.25	_____
Centric 40WG	oz	5.37	2.0000	10.74	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
CSeed B3XF/W3RE/GLTP	thous	2.28	45.0000	102.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.08	32.0000	2.56	_____
ADJUVANTS					
Surfactant	pt	3.59	0.4000	1.44	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.7365	10.47	_____
Self-Propelled	hour	14.23	0.3397	4.83	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	14.20	0.8610	12.23	_____
DIESEL FUEL					
Tractors	gal	2.60	7.2030	18.72	_____
Self-Propelled	gal	2.60	4.6559	12.09	_____
REPAIR & MAINTENANCE					
Implements	acre	8.16	1.0000	8.16	_____
Tractors	acre	4.02	1.0000	4.02	_____
Self-Propelled	acre	14.42	1.0000	14.42	_____
INTEREST ON OP. CAP.	acre	13.69	1.0000	13.69	_____
TOTAL DIRECT EXPENSES				567.46	_____
FIXED EXPENSES					
Implements	acre	14.16	1.0000	14.16	_____
Tractors	acre	27.82	1.0000	27.82	_____
Self-Propelled	acre	67.26	1.0000	67.26	_____
TOTAL FIXED EXPENSES				109.24	_____
TOTAL SPECIFIED EXPENSES				676.70	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	900.0000	667.26	_____
Cotton Seed	lb	0.10	1215.0000	121.50	_____

TOTAL INCOME				788.76	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.84	1.0000	15.84	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	75.98	1.0000	75.98	_____
INSECTICIDES	acre	48.22	1.0000	48.22	_____
SEED/PLANTS	acre	102.60	1.0000	102.60	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
ADJUVANTS	acre	1.44	1.0000	1.44	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5782	5.23	_____
OPERATOR LABOR	hour	14.23	1.0763	15.30	_____
UNALLOCATED LABOR	hour	14.20	0.8610	12.23	_____
DIESEL FUEL	gal	2.60	11.8590	30.81	_____
REPAIR & MAINTENANCE	acre	26.60	1.0000	26.60	_____
INTEREST ON OP. CAP.	acre	13.69	1.0000	13.69	_____

TOTAL DIRECT EXPENSES				567.46	_____
RETURNS ABOVE DIRECT EXPENSES				221.30	_____
TOTAL FIXED EXPENSES					
				109.24	_____

TOTAL SPECIFIED EXPENSES				676.70	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				112.06	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant-Folding	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.15	0.06
CSeed B3XF/W3RE/GLTP	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.2500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.07	0.73	1.65	0.86

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 2.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	25.31						1.52	26.83		26.83
Custom Apply Fert	acre	7.50						0.45	7.95		7.95
Potash (60% K2O)	cwt	30.00						1.80	31.80		31.80
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.05	1.19	1.41	2.60
Clarity	pt	5.76						0.23	5.99		5.99
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66		4.66
Surfactant	pt	0.72						0.03	0.75		0.75
Row Cond Rigid	26'		1.52	0.57	1.53			0.11	3.73	3.39	7.12
NT Plant-Folding	8R-38		1.97	2.10	2.68			0.20	6.95	6.51	13.46
CSeed B3XF/W3RE/GLTP	thous	102.60						3.08	105.68		105.68
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Cotoran	pt	12.84						0.39	13.23		13.23
Surfactant	pt	0.72						0.02	0.74		0.74
Cotton Consultant	acre	8.00						0.24	8.24		8.24
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Dual Magnum	pt	13.81						0.41	14.22		14.22
Acephate 90%	lb	2.17						0.07	2.24		2.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81						0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bidrin 8EC	oz	0.25						0.01	0.26		0.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Centric 40WG	oz	10.74						0.27	11.01		11.01
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	8R-38		1.97	1.40	2.33			0.14	5.84	4.15	9.99
UAN (32%)	gal	22.82						0.57	23.39		23.39
Spray (Direct/Layby)	8R-38		1.70	0.72	2.01			0.11	4.54	3.00	7.54
Diuron	pt	4.64						0.12	4.76		4.76
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	6.53						0.13	6.66		6.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
IncidentalPestTrt\$22	acre	22.00						0.44	22.44		22.44
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Acephate 90%	lb	6.53						0.10	6.63		6.63
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Thidiazuron 4lb	oz	2.23						0.02	2.25		2.25
Ethephon 6E	pt	7.06						0.07	7.13		7.13
Sprayer 600-750gal	60' 175hp		0.21	0.10	0.27			0.01	0.59	0.70	1.29
Tribufos 6lb	pt	5.45						0.05	5.50		5.50
Ethephon 6E	pt	1.10						0.01	1.11		1.11
Cotton Picker	6R-38(355)		8.19	12.52	5.97			0.13	26.81	53.87	80.68
Boll Buggy	6R-38(355)		4.38	2.25	4.41			0.06	11.10	9.48	20.58
Module Builder	6R-38(355)		4.38	2.43	5.97			0.06	12.84	9.89	22.73
Gin & Haul	lb	99.00						0.49	99.49		99.49
Stalk Shredder-Flail	15'		2.80	2.71	2.82			0.04	8.37	5.56	13.93
TOTALS		463.60	30.81	26.60	32.76	0.00	13.69	567.46	109.24	676.70	

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

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	788.76
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	30.00	0.00	0.00	0.00	0.00	0.00	0.00	22.82	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.24	0.00	56.62	9.12	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.42	10.74	28.53	6.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	102.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	0.53	0.00	5.80	4.87	1.06	0.53	0.80	19.17
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	0.41	0.00	4.72	4.08	0.82	0.41	0.62	19.75
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.27	2.32	0.40	0.20	0.30	19.91
INTEREST ON OP. CAP.	3.97	0.00	0.00	0.00	0.49	0.00	6.14	1.38	0.64	0.12	0.17	0.78
TOTAL DIRECT EXPENSES	70.11	0.00	0.00	0.00	12.59	0.00	211.29	56.61	32.73	7.79	17.73	158.61
NET INCOME	-70.11	0.00	0.00	0.00	-12.59	0.00	-211.29	-56.61	-32.73	-7.79	-17.73	630.15
NET INCOME TO DATE	-70.11	-70.11	-70.11	-70.11	-82.70	-82.70	-293.99	-350.60	-383.33	-391.12	-408.85	221.30

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Cotton Lint	0.55	0.59	0.63	0.66	0.70	0.74	0.77	0.81	0.85	0.88	0.92			
PERCENT	YIELD	UNIT	dollars											
50	450.00	lb	-145 -255	-129 -238	-112 -221	-95 -205	-79 -188	-62 -171	-45 -155	-29 -138	-12 -121	4 -105	20 -88	
60	540.00	lb	-105 -215	-85 -195	-65 -175	-45 -155	-25 -135	-5 -115	14 -95	34 -75	54 -54	74 -34	94 -14	
70	630.00	lb	-65 -175	-42 -151	-19 -128	4 -104	27 -81	50 -58	74 -34	97 -11	121 11	144 35	167 58	
80	720.00	lb	-25 -134	0 -108	27 -81	54 -54	81 -28	107 -1	134 25	161 51	187 78	214 105	241 131	
90	810.00	lb	14 -94	44 -64	74 -34	104 -4	134 25	164 55	194 85	224 115	254 145	284 175	314 205	
100	900.00	lb	54 -54	87 -21	121 11	154 45	187 78	221 112	254 145	288 178	321 212	354 245	388 278	
110	990.00	lb	94 -14	131 22	167 58	204 95	241 132	278 168	314 205	351 242	388 278	424 315	461 352	
120	1080.00	lb	134 25	174 65	214 105	254 145	294 185	334 225	374 265	414 305	454 345	494 385	535 425	
130	1170.00	lb	174 65	218 108	261 152	304 195	348 239	391 282	435 325	478 369	521 412	565 455	608 499	
140	1260.00	lb	214 105	261 152	308 199	354 245	401 292	448 339	495 385	541 432	588 479	635 526	681 572	
150	1350.00	lb	254 145	305 195	355 245	405 295	455 345	505 395	555 445	605 496	655 546	705 596	755 646	

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 2018 input prices.

Table 3.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	0.97	2.3000	2.23	_____
Ethephon 6E	pt	3.53	2.3125	8.16	_____
Tribufos 6lb	pt	10.90	0.5000	5.45	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	20.00	1.5000	30.00	_____
UAN (32%)	gal	1.24	28.9332	35.88	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.51	0.5000	5.76	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.81	2.0000	27.62	_____
Diuron	pt	2.90	1.6000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	8.70	1.7500	15.22	_____
Bidrin 8EC	oz	1.26	0.2000	0.25	_____
Centric 40WG	oz	5.37	2.0000	10.74	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
CSeed B3XF/W3RE/GLTP	thous	2.28	45.0000	102.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.08	32.0000	2.56	_____
ADJUVANTS					
Surfactant	pt	3.59	0.4000	1.44	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4268	6.09	_____
Self-Propelled	hour	14.23	0.3397	4.83	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	14.21	0.6133	8.72	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7451	12.34	_____
Self-Propelled	gal	2.60	5.9419	15.43	_____
REPAIR & MAINTENANCE					
Implements	acre	7.11	1.0000	7.11	_____
Tractors	acre	2.50	1.0000	2.50	_____
Self-Propelled	acre	22.82	1.0000	22.82	_____
INTEREST ON OP. CAP.	acre	14.37	1.0000	14.37	_____
TOTAL DIRECT EXPENSES				578.30	_____
FIXED EXPENSES					
Implements	acre	11.15	1.0000	11.15	_____
Tractors	acre	17.22	1.0000	17.22	_____
Self-Propelled	acre	103.40	1.0000	103.40	_____
TOTAL FIXED EXPENSES				131.77	_____
TOTAL SPECIFIED EXPENSES				710.07	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	1000.0000	741.40	_____
Cotton Seed	lb	0.10	1350.0000	135.00	_____

TOTAL INCOME				876.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.84	1.0000	15.84	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	65.88	1.0000	65.88	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	75.98	1.0000	75.98	_____
INSECTICIDES	acre	41.22	1.0000	41.22	_____
SEED/PLANTS	acre	102.60	1.0000	102.60	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
ADJUVANTS	acre	1.44	1.0000	1.44	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3796	3.43	_____
OPERATOR LABOR	hour	14.23	0.7666	10.92	_____
UNALLOCATED LABOR	hour	14.21	0.6133	8.72	_____
DIESEL FUEL	gal	2.60	10.6871	27.77	_____
REPAIR & MAINTENANCE	acre	32.43	1.0000	32.43	_____
INTEREST ON OP. CAP.	acre	14.37	1.0000	14.37	_____

TOTAL DIRECT EXPENSES				578.30	_____
RETURNS ABOVE DIRECT EXPENSES				298.10	_____

TOTAL FIXED EXPENSES				131.77	_____

TOTAL SPECIFIED EXPENSES				710.07	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				166.33	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 3.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
CSeed B3XF/W3RE/GLTP	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May					
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.2500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.76	0.42	1.14	0.61

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST		
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL				
-----dollars-----												
Soil Test	acre	3.33							0.20	3.53		3.53
Lime (Spread)	ton	25.31							1.52	26.83		26.83
Custom Apply Fert	acre	7.50							0.45	7.95		7.95
Potash (60% K2O)	cwt	30.00							1.80	31.80		31.80
Bed-Paratill Fold	12R-38		1.62	1.66	1.38				0.28	4.94	4.83	9.77
Bed/Disk (Hipper)	12R-38		0.74	0.33	0.63				0.10	1.80	1.55	3.35
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.05	1.19	1.41	2.60
Clarity	pt	5.76							0.23	5.99		5.99
Glyphosate 3lbs a.e	oz	4.48							0.18	4.66		4.66
Surfactant	pt	0.72							0.03	0.75		0.75
Fert Appl (Liquid)	12R-38		1.56	1.00	1.56				0.14	4.26	2.98	7.24
UAN (32%)	gal	17.94							0.63	18.57		18.57
Row Cond Folding	38'		1.23	0.50	1.05				0.08	2.86	2.91	5.77
Plant - Folding	12R-38		1.49	1.83	1.72				0.15	5.19	5.31	10.50
CSeed B3XF/W3RE/GLTP	thous	102.60							3.08	105.68		105.68
Cotton Seed Trt.	acre	20.00							0.60	20.60		20.60
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.03	1.17	1.41	2.58
Gramoxone SL 2.0	oz	7.20							0.22	7.42		7.42
Cotoran	pt	12.84							0.39	13.23		13.23
Surfactant	pt	0.72							0.02	0.74		0.74
Cotton Consultant	acre	8.00							0.24	8.24		8.24
Eradication	acre	1.00							0.03	1.03		1.03
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81							0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48							0.13	4.61		4.61
Acephate 90%	lb	2.17							0.07	2.24		2.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81							0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48							0.13	4.61		4.61
Bidrin 8EC	oz	0.25							0.01	0.26		0.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.03	1.17	1.41	2.58
Centric 40WG	oz	10.74							0.27	11.01		11.01
Mepiquat Chloride	oz	1.28							0.03	1.31		1.31
Fert Appl (Liquid)	12R-38		1.56	1.00	1.56				0.10	4.22	2.98	7.20
UAN (32%)	gal	17.94							0.45	18.39		18.39
Spray (Direct/Layby)	12R-38		1.34	0.58	1.34				0.07	3.33	2.25	5.58
Diuron	pt	4.64							0.09	4.73		4.73
Glyphosate 3lbs a.e	oz	4.48							0.09	4.57		4.57
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.02	1.16	1.41	2.57
Mepiquat Chloride	oz	1.28							0.03	1.31		1.31
Acephate 90%	lb	6.53							0.13	6.66		6.66
Incidental Pest												
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.02	1.16	1.41	2.57
IncidentalPestTrt\$15	acre	15.00							0.30	15.30		15.30
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.02	1.16	1.41	2.57
Acephate 90%	lb	6.53							0.10	6.63		6.63
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53				0.01	1.15	1.41	2.56
Thidiazuron 4lb	oz	2.23							0.02	2.25		2.25
Ethephon 6E	pt	7.06							0.07	7.13		7.13
Sprayer 600-750gal	60' 175hp		0.21	0.10	0.27				0.01	0.59	0.70	1.29
Tribufos 6lb	pt	5.45							0.05	5.50		5.50
Ethephon 6E	pt	1.10							0.01	1.11		1.11
Cotton Picker/Module	6R-38(500)		11.53	20.92	5.97				0.19	38.61	90.01	128.62
Gin & Haul	lb	110.00							0.55	110.55		110.55
Stalk Shredder-Flail	15'		2.80	2.71	2.82				0.04	8.37	5.56	13.93
TOTALS			480.66	27.77	32.43	23.07	0.00	14.37	578.30	131.77		710.07

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

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	876.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	30.00	0.00	0.00	0.00	0.00	17.94	0.00	17.94	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.24	0.00	56.62	0.00	9.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.42	10.74	21.53	6.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	102.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.01	0.00	0.00	0.00	0.53	1.56	4.36	2.09	2.40	0.53	0.80	8.79
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	2.36	0.00	0.00	0.00	0.41	1.56	3.95	1.97	2.16	0.41	0.62	14.33
REPAIR & MAINTENANCE	1.99	0.00	0.00	0.00	0.20	1.00	2.93	1.20	0.98	0.20	0.30	23.63
INTEREST ON OP. CAP.	4.35	0.00	0.00	0.00	0.49	0.77	6.06	0.88	0.75	0.12	0.17	0.78
TOTAL DIRECT EXPENSES	76.85	0.00	0.00	0.00	12.59	22.83	208.66	36.10	38.22	7.79	17.73	157.53
NET INCOME	-76.85	0.00	0.00	0.00	-12.59	-22.83	-208.66	-36.10	-38.22	-7.79	-17.73	718.87
NET INCOME TO DATE	-76.85	-76.85	-76.85	-76.85	-89.44	-112.27	-320.93	-357.03	-395.25	-403.04	-420.77	298.10

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.63	0.66	0.70	0.74	0.77	0.81	0.85	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-110 -241	-91 -223	-72 -204	-54 -186	-35 -167	-17 -149	1 -130	19 -112	38 -93	56 -74	75 -56
60	600.00	lb	-65 -197	-43 -174	-20 -152	1 -130	23 -108	45 -86	68 -63	90 -41	112 -19	134 2	156 25
70	700.00	lb	-20 -152	5 -126	30 -100	56 -74	82 -48	108 -22	134 3	160 28	186 54	212 80	238 106
80	800.00	lb	23 -108	53 -78	82 -48	112 -19	142 10	171 40	201 69	231 99	260 129	290 158	320 188
90	900.00	lb	68 -63	101 -30	134 3	168 36	201 69	235 103	268 136	301 169	335 203	368 236	401 270
100	1000.00	lb	112 -19	149 18	186 55	223 92	261 129	298 166	335 203	372 240	409 277	446 314	483 351
110	1100.00	lb	157 25	198 66	238 107	279 147	320 188	361 229	401 270	442 310	483 351	524 392	565 433
120	1200.00	lb	201 70	246 114	290 159	335 203	379 248	424 292	468 336	513 381	557 425	602 470	646 514
130	1300.00	lb	246 114	294 162	342 211	390 259	439 307	487 355	535 403	583 451	631 500	680 548	728 596
140	1400.00	lb	290 159	342 211	394 262	446 314	498 366	550 418	602 470	654 522	706 574	758 626	809 678
150	1500.00	lb	335 203	391 259	446 314	502 370	557 426	613 481	669 537	724 592	780 648	835 704	891 759

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 2018 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	0.97	2.3000	2.23	_____
Ethephon 6E	pt	3.53	2.3125	8.16	_____
Tribufos 6lb	pt	10.90	0.5000	5.45	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	20.00	1.5000	30.00	_____
UAN (32%)	gal	1.24	18.4000	22.82	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.51	0.5000	5.76	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.81	2.0000	27.62	_____
Diuron	pt	2.90	1.6000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	8.70	1.7500	15.22	_____
Bidrin 8EC	oz	1.26	0.2000	0.25	_____
Centric 40WG	oz	5.37	2.0000	10.74	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
CSeed B3XF/W3RE/GLTP	thous	2.28	45.0000	102.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.08	32.0000	2.56	_____
ADJUVANTS					
Surfactant	pt	3.59	0.4000	1.44	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.2987	4.26	_____
Self-Propelled	hour	14.23	0.3397	4.83	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	14.23	0.5108	7.27	_____
DIESEL FUEL					
Tractors	gal	2.60	3.2620	8.49	_____
Self-Propelled	gal	2.60	5.9419	15.43	_____
REPAIR & MAINTENANCE					
Implements	acre	5.17	1.0000	5.17	_____
Tractors	acre	1.73	1.0000	1.73	_____
Self-Propelled	acre	22.82	1.0000	22.82	_____
INTEREST ON OP. CAP.	acre	13.35	1.0000	13.35	_____
TOTAL DIRECT EXPENSES				543.17	_____
FIXED EXPENSES					
Implements	acre	7.73	1.0000	7.73	_____
Tractors	acre	11.93	1.0000	11.93	_____
Self-Propelled	acre	103.40	1.0000	103.40	_____
TOTAL FIXED EXPENSES				123.06	_____
TOTAL SPECIFIED EXPENSES				666.23	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 4.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	900.0000	667.26	_____
Cotton Seed	lb	0.10	1215.0000	121.50	_____

TOTAL INCOME				788.76	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.84	1.0000	15.84	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	52.82	1.0000	52.82	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	75.98	1.0000	75.98	_____
INSECTICIDES	acre	41.22	1.0000	41.22	_____
SEED/PLANTS	acre	102.60	1.0000	102.60	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
ADJUVANTS	acre	1.44	1.0000	1.44	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3558	3.22	_____
OPERATOR LABOR	hour	14.23	0.6385	9.09	_____
UNALLOCATED LABOR	hour	14.23	0.5108	7.27	_____
DIESEL FUEL	gal	2.60	9.2040	23.92	_____
REPAIR & MAINTENANCE	acre	29.72	1.0000	29.72	_____
INTEREST ON OP. CAP.	acre	13.35	1.0000	13.35	_____

TOTAL DIRECT EXPENSES				543.17	_____
RETURNS ABOVE DIRECT EXPENSES				245.59	_____

TOTAL FIXED EXPENSES				123.06	_____

TOTAL SPECIFIED EXPENSES				666.23	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				122.53	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.10	0.04
CSeed B3XF/W3RE/GLTP	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.2500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.63	0.29	0.99	0.51

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	25.31						1.52	26.83		26.83
Custom Apply Fert	acre	7.50						0.45	7.95		7.95
Potash (60% K2O)	cwt	30.00						1.80	31.80		31.80
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.05	1.19	1.41	2.60
Clarity	pt	5.76						0.23	5.99		5.99
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66		4.66
Surfactant	pt	0.72						0.03	0.75		0.75
Row Cond Folding	38'		1.23	0.50	1.05			0.08	2.86	2.91	5.77
NT Plant-Folding	12R-38		1.56	2.11	1.80			0.16	5.63	5.96	11.59
CSeed B3XF/W3RE/GLTP	thous	102.60						3.08	105.68		105.68
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Cotoran	pt	12.84						0.39	13.23		13.23
Surfactant	pt	0.72						0.02	0.74		0.74
Cotton Consultant	acre	8.00						0.24	8.24		8.24
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Dual Magnum	pt	13.81						0.41	14.22		14.22
Acephate 90%	lb	2.17						0.07	2.24		2.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81						0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bidrin 8EC	oz	0.25						0.01	0.26		0.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Centric 40WG	oz	10.74						0.27	11.01		11.01
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	12R-38		1.56	1.00	1.56			0.10	4.22	2.98	7.20
UAN (32%)	gal	22.82						0.57	23.39		23.39
Spray (Direct/Layby)	12R-38		1.34	0.58	1.34			0.08	3.34	2.25	5.59
Diuron	pt	4.64						0.12	4.76		4.76
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	6.53						0.13	6.66		6.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
IncidentalPestTrt\$15	acre	15.00						0.30	15.30		15.30
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Acephate 90%	lb	6.53						0.10	6.63		6.63
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Thidiazuron 4lb	oz	2.23						0.02	2.25		2.25
Ethephon 6E	pt	7.06						0.07	7.13		7.13
Sprayer 600-750gal	60' 175hp		0.21	0.10	0.27			0.01	0.59	0.70	1.29
Tribufos 6lb	pt	5.45						0.05	5.50		5.50
Ethephon 6E	pt	1.10						0.01	1.11		1.11
Cotton Picker/Module	6R-38(500)		11.53	20.92	5.97			0.19	38.61	90.01	128.62
Gin & Haul	lb	99.00						0.49	99.49		99.49
Stalk Shredder-Flail	15'		2.80	2.71	2.82			0.04	8.37	5.56	13.93
TOTALS		456.60	23.92	29.72	19.58	0.00	13.35	543.17	123.06	666.23	

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

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	788.76
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	30.00	0.00	0.00	0.00	0.00	0.00	0.00	22.82	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.24	0.00	56.62	9.12	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.42	10.74	21.53	6.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	102.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	0.53	0.00	4.44	3.43	1.06	0.53	0.80	8.79
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	0.41	0.00	4.02	3.31	0.82	0.41	0.62	14.33
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.21	1.78	0.40	0.20	0.30	23.63
INTEREST ON OP. CAP.	3.97	0.00	0.00	0.00	0.49	0.00	6.07	1.31	0.50	0.12	0.17	0.72
TOTAL DIRECT EXPENSES	70.11	0.00	0.00	0.00	12.59	0.00	209.10	53.79	25.59	7.79	17.73	146.47
NET INCOME	-70.11	0.00	0.00	0.00	-12.59	0.00	-209.10	-53.79	-25.59	-7.79	-17.73	642.29
NET INCOME TO DATE	-70.11	-70.11	-70.11	-70.11	-82.70	-82.70	-291.80	-345.59	-371.18	-378.97	-396.70	245.59

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF/W3RE/GLTP variety, Non-Delta Area, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE	dollars												
Cotton Lint	0.55	0.59	0.63	0.66	0.70	0.74	0.77	0.81	0.85	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-121	-105	-88	-71	-54	-38	-21	-4	11	28	45
			-244	-228	-211	-194	-178	-161	-144	-127	-111	-94	-77
60	540.00	lb	-81	-61	-41	-21	-1	18	38	58	78	98	118
			-204	-184	-164	-144	-124	-104	-84	-64	-44	-24	-4
70	630.00	lb	-41	-18	5	28	51	75	98	121	145	168	192
			-164	-141	-117	-94	-71	-47	-24	-1	22	45	68
80	720.00	lb	-1	25	51	78	105	132	158	185	212	238	265
			-124	-97	-71	-44	-17	8	35	62	89	115	142
90	810.00	lb	38	68	98	128	158	188	218	248	278	308	338
			-84	-54	-24	5	35	65	95	125	155	185	215
100	900.00	lb	78	112	145	178	212	245	278	312	345	379	412
			-44	-10	22	55	89	122	155	189	222	255	289
110	990.00	lb	118	155	192	228	265	302	339	375	412	449	485
			-4	32	69	105	142	179	216	252	289	326	362
120	1080.00	lb	158	199	239	279	319	359	399	439	479	519	559
			35	75	115	156	196	236	276	316	356	396	436
130	1170.00	lb	199	242	285	329	372	415	459	502	546	589	632
			76	119	162	206	249	292	336	379	422	466	509
140	1260.00	lb	239	285	332	379	425	472	519	566	612	659	706
			116	162	209	256	302	349	396	443	489	536	583
150	1350.00	lb	279	329	379	429	479	529	579	629	679	729	779
			156	206	256	306	356	406	456	506	556	606	656

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 2018 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	0.97	2.3000	2.23	_____
Ethephon 6E	pt	3.53	2.3125	8.16	_____
Tribufos 6lb	pt	10.90	0.5000	5.45	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	20.00	1.5000	30.00	_____
UAN (32%)	gal	1.24	28.9332	35.88	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.51	0.5000	5.76	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.81	2.0000	27.62	_____
Diuron	pt	2.90	1.6000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	8.70	1.7500	15.22	_____
Bidrin 8EC	oz	1.26	0.2000	0.25	_____
Centric 40WG	oz	5.37	2.0000	10.74	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
CSeed B3XF/W3RE/GLTP	thous	2.28	45.0000	102.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.08	32.0000	2.56	_____
ADJUVANTS					
Surfactant	pt	3.59	0.4000	1.44	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4268	6.09	_____
Self-Propelled	hour	14.23	0.3397	4.83	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	14.21	0.6133	8.72	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7451	12.34	_____
Self-Propelled	gal	2.60	5.9419	15.43	_____
1/4-mi. Pivot Irr.	gal	2.60	11.2011	29.13	_____
REPAIR & MAINTENANCE					
Implements	acre	7.11	1.0000	7.11	_____
Tractors	acre	2.50	1.0000	2.50	_____
Self-Propelled	acre	22.82	1.0000	22.82	_____
1/4-mi. Pivot Irr.	acre	21.65	1.0000	21.65	_____
INTEREST ON OP. CAP.	acre	15.62	1.0000	15.62	_____
TOTAL DIRECT EXPENSES				654.17	_____
FIXED EXPENSES					
Implements	acre	11.15	1.0000	11.15	_____
Tractors	acre	17.22	1.0000	17.22	_____
Self-Propelled	acre	103.40	1.0000	103.40	_____
1/4-mi. Pivot Irr.	acre	84.43	1.0000	84.43	_____
TOTAL FIXED EXPENSES				216.20	_____
TOTAL SPECIFIED EXPENSES				870.37	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.74	1200.0000	889.68	_____
Cotton Seed	lb	0.10	1620.0000	162.00	_____

TOTAL INCOME				1051.68	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.84	1.0000	15.84	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	65.88	1.0000	65.88	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	75.98	1.0000	75.98	_____
INSECTICIDES	acre	41.22	1.0000	41.22	_____
SEED/PLANTS	acre	102.60	1.0000	102.60	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
ADJUVANTS	acre	1.44	1.0000	1.44	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3796	3.43	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	14.23	0.7666	10.92	_____
UNALLOCATED LABOR	hour	14.21	0.6133	8.72	_____
DIESEL FUEL	gal	2.60	21.8882	56.90	_____
REPAIR & MAINTENANCE	acre	54.08	1.0000	54.08	_____
INTEREST ON OP. CAP.	acre	15.62	1.0000	15.62	_____

TOTAL DIRECT EXPENSES				654.17	_____
RETURNS ABOVE DIRECT EXPENSES				397.51	_____
TOTAL FIXED EXPENSES					
				216.20	_____

TOTAL SPECIFIED EXPENSES				870.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				181.31	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
CSeed B3XF/W3RE/GLTP	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Acephate 90%	lb					0.2500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.76	0.42	1.34	0.61

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	25.31						1.52	26.83		26.83
Custom Apply Fert	acre	7.50						0.45	7.95		7.95
Potash (60% K2O)	cwt	30.00						1.80	31.80		31.80
Bed-Paratill Fold	12R-38		1.62	1.66	1.38			0.28	4.94	4.83	9.77
Bed/Disk (Hipper)	12R-38		0.74	0.33	0.63			0.10	1.80	1.55	3.35
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.05	1.19	1.41	2.60
Clarity	pt	5.76						0.23	5.99		5.99
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66		4.66
Surfactant	pt	0.72						0.03	0.75		0.75
Fert Appl (Liquid)	12R-38		1.56	1.00	1.56			0.14	4.26	2.98	7.24
UAN (32%)	gal	17.94						0.63	18.57		18.57
Row Cond Folding	38'		1.23	0.50	1.05			0.08	2.86	2.91	5.77
Plant - Folding	12R-38		1.49	1.83	1.72			0.15	5.19	5.31	10.50
CSeed B3XF/W3RE/GLTP	thous	102.60						3.08	105.68		105.68
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Cotoran	pt	12.84						0.39	13.23		13.23
Surfactant	pt	0.72						0.02	0.74		0.74
Cotton Consultant	acre	8.00						0.24	8.24		8.24
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81						0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Acephate 90%	lb	2.17						0.07	2.24		2.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual Magnum	pt	13.81						0.41	14.22		14.22
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Bidrin 8EC	oz	0.25						0.01	0.26		0.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Centric 40WG	oz	10.74						0.27	11.01		11.01
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	12R-38		1.56	1.00	1.56			0.10	4.22	2.98	7.20
UAN (32%)	gal	17.94						0.45	18.39		18.39
Spray (Direct/Layby)	12R-38		1.34	0.58	1.34			0.07	3.33	2.25	5.58
Diuron	pt	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57		4.57
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	6.53						0.13	6.66		6.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
IncidentalPestTrt\$15	acre	15.00						0.30	15.30		15.30
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Acephate 90%	lb	6.53						0.10	6.63		6.63
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Thidiazuron 4lb	oz	2.23						0.02	2.25		2.25
Ethephon 6E	pt	7.06						0.07	7.13		7.13
Sprayer 600-750gal	60' 175hp		0.21	0.10	0.27			0.01	0.59	0.70	1.29
Tribufos 6lb	pt	5.45						0.05	5.50		5.50
Ethephon 6E	pt	1.10						0.01	1.11		1.11
Cotton Picker/Module	6R-38(500)		11.53	20.92	5.97			0.19	38.61	90.01	128.62
Gin & Haul	lb	132.00						0.66	132.66		132.66
Stalk Shredder-Flail	15'		2.80	2.71	2.82			0.04	8.37	5.56	13.93
1/4-mi. Pivot Irr.	acre		29.13	21.65	1.84			1.14	53.76	84.43	138.19
TOTALS		502.66	56.90	54.08	24.91	0.00	15.62	654.17	216.20	870.37	

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2019

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	1051.68
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	30.00	0.00	0.00	0.00	0.00	17.94	0.00	17.94	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.24	0.00	56.62	0.00	9.12	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.42	10.74	21.53	6.53	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	102.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.01	0.00	0.00	0.00	0.53	1.56	5.70	2.24	2.60	0.68	0.80	8.79
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	2.36	0.00	0.00	0.00	0.41	1.56	3.95	10.71	13.81	9.15	0.62	14.33
REPAIR & MAINTENANCE	1.99	0.00	0.00	0.00	0.20	1.00	2.93	19.58	2.85	1.60	0.30	23.63
INTEREST ON OP. CAP.	4.35	0.00	0.00	0.00	0.49	0.77	6.10	1.56	1.02	0.27	0.17	0.89
TOTAL DIRECT EXPENSES	76.85	0.00	0.00	0.00	12.59	22.83	210.04	64.05	52.21	18.23	17.73	179.64
NET INCOME	-76.85	0.00	0.00	0.00	-12.59	-22.83	-210.04	-64.05	-52.21	-18.23	-17.73	872.04
NET INCOME TO DATE	-76.85	-76.85	-76.85	-76.85	-89.44	-112.27	-322.31	-386.36	-438.57	-456.80	-474.53	397.51

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF/W3RE/GLTP, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.63	0.66	0.70	0.74	0.77	0.81	0.85	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-92 -308	-69 -286	-47 -263	-25 -241	-3 -219	19 -197	41 -174	63 -152	85 -130	107 -108	130 -85
60	720.00	lb	-38 -254	-12 -228	14 -201	41 -174	68 -148	94 -121	121 -94	148 -68	174 -41	201 -14	228 11
70	840.00	lb	14 -201	45 -170	76 -139	108 -108	139 -76	170 -45	201 -14	232 16	263 47	294 78	326 109
80	960.00	lb	68 -148	103 -112	139 -76	174 -41	210 -5	246 29	281 65	317 101	352 136	388 172	424 207
90	1080.00	lb	121 -94	161 -54	201 -14	241 25	281 65	321 105	361 145	401 185	441 225	481 265	521 305
100	1200.00	lb	175 -41	219 3	264 47	308 92	353 136	397 181	441 225	486 270	530 314	575 359	619 403
110	1320.00	lb	228 12	277 61	326 110	375 159	424 208	473 257	522 305	571 354	620 403	668 452	717 501
120	1440.00	lb	282 65	335 119	388 172	442 225	495 279	548 332	602 386	655 439	709 492	762 546	815 599
130	1560.00	lb	335 119	393 177	451 234	508 292	566 350	624 408	682 466	740 524	798 581	855 639	913 697
140	1680.00	lb	388 172	451 235	513 297	575 359	638 421	700 484	762 546	824 608	887 670	949 733	1011 795
150	1800.00	lb	442 226	509 292	575 359	642 426	709 493	776 559	842 626	909 693	976 759	1042 826	1109 893

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 2018 input prices.

Table 6.A Estimated costs per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
Quadris Top SBX	oz	2.75	7.0000	19.25	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.34	50.0000	67.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
1/2-mi Pivot Irr.	gal	2.60	16.4057	42.66	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
1/2-mi Pivot Irr.	acre	11.57	1.0000	11.57	_____
INTEREST ON OP. CAP.	acre	10.15	1.0000	10.15	_____
TOTAL DIRECT EXPENSES				384.10	_____
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
1/2-mi Pivot Irr.	acre	47.36	1.0000	47.36	_____
TOTAL FIXED EXPENSES				74.02	_____
TOTAL SPECIFIED EXPENSES				458.12	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	50.0000	465.00	_____

TOTAL INCOME				465.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	26.10	1.0000	26.10	_____
HERBICIDES	acre	47.16	1.0000	47.16	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	67.00	1.0000	67.00	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	19.1560	49.81	_____
REPAIR & MAINTENANCE	acre	19.14	1.0000	19.14	_____
INTEREST ON OP. CAP.	acre	10.15	1.0000	10.15	_____

TOTAL DIRECT EXPENSES				384.10	_____
RETURNS ABOVE DIRECT EXPENSES				80.90	_____
TOTAL FIXED EXPENSES				74.02	_____

TOTAL SPECIFIED EXPENSES				458.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				6.88	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
						-----hours-----					
Soil Test	acre			0.33	Nov	0.3330					
Lime (Spread)	ton			0.33	Nov	0.3330					
Custom Apply Fert	acre			1.00	Nov	1.0000					
Phosphorus (46% P2O5)	cwt					0.8700					
Potash (60% K2O)	cwt					1.3300					
Soybeans Consultant	acre			1.00	May	1.0000					
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05	
Soybean Seed RR2	lb					50.0000					
CruiserMaxx	oz					1.6000					
Inoculant -Soybean	acre					1.0000					
Boundary	pt					2.0000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02	
Glyphosate 3lbs a.e	oz					32.0000					
Prefix	pt					2.0000					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Quadris Top SBX	oz					7.0000					
Surfactant	pt					0.1000					
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					
Prevathon	oz					14.0000					
Surfactant	pt					0.1000					
Bifenthrin	oz					6.4000					
Incidental Pest				1.00	Sep						
App by Air (5 gal)	appl					1.0000					
IncidentalPestTrt \$8	acre					1.0000					
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08	
Haul Soybeans	bu					50.0000					
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01	
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05		
TOTALS								0.21	0.21	0.35	0.18

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.D Estimated costs for field operations, per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	12.65						0.76	13.41		13.41
Custom Apply Fert	acre	7.50						0.45	7.95		7.95
Phosphorus(46% P2O5)	cwt	20.66						1.24	21.90		21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20		28.20
Soybeans Consultant	acre	6.50						0.20	6.70		6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93	13.89
Soybean Seed RR2	lb	67.00						1.67	68.67		68.67
CruiserMaxx	oz	6.85						0.17	7.02		7.02
Inoculant -Soybean	acre	1.55						0.04	1.59		1.59
Boundary	pt	22.42						0.56	22.98		22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38		7.38
Surfactant	pt	1.44						0.04	1.48		1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43	3.58
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57		4.57
Prefix	pt	13.06						0.26	13.32		13.32
App by Air (5 gal)	appl	6.50						0.10	6.60		6.60
Quadris Top SBX	oz	19.25						0.29	19.54		19.54
Surfactant	pt	0.36						0.01	0.37		0.37
App by Air (5 gal)	appl	6.50						0.10	6.60		6.60
Acephate 90SP	lb	5.94						0.09	6.03		6.03
App by Air (5 gal)	appl	6.50						0.10	6.60		6.60
Prevathon	oz	18.48						0.28	18.76		18.76
Surfactant	pt	0.36						0.01	0.37		0.37
Bifenthrin	oz	4.86						0.07	4.93		4.93
Incidental Pest											
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08		8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00	27.87
Haul Soybeans	bu	13.50						0.07	13.57		13.57
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30	2.85
1/2-mi Pivot Irr.	acre		42.66	11.57	0.47			1.15	55.85	47.36	103.21
TOTALS		297.99	49.81	19.14	7.01	0.00	10.15	384.10	74.02	458.12	

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.E Estimated monthly income and expense flows per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

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	465.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	19.25	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	17.54	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.72	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.44	0.93	0.04	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84	17.91	12.80	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63	1.12	0.55	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.21	3.41	0.75	1.25	0.15	0.13
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	7.05	139.78	38.25	83.39	14.65	25.99
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-7.05	-139.78	-38.25	-83.39	-14.65	439.01
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-82.04	-221.82	-260.07	-343.46	-358.11	80.90

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-202	-191	-179	-168	-156	-144	-133	-121	-109	-98	-86
			-276	-265	-253	-242	-230	-218	-207	-195	-183	-172	-160
60	30.00	bu	-169	-155	-141	-127	-113	-99	-85	-71	-57	-43	-29
			-243	-229	-215	-201	-187	-173	-159	-145	-131	-117	-103
70	35.00	bu	-135	-119	-103	-87	-70	-54	-38	-21	-5	10	26
			-209	-193	-177	-161	-144	-128	-112	-95	-79	-63	-47
80	40.00	bu	-102	-83	-65	-46	-27	-9	9	27	46	65	83
			-176	-157	-139	-120	-102	-83	-64	-46	-27	-9	9
90	45.00	bu	-68	-47	-27	-6	14	35	56	77	98	119	140
			-142	-121	-101	-80	-59	-38	-17	3	24	45	66
100	50.00	bu	-35	-12	11	34	57	80	104	127	150	173	197
			-109	-86	-62	-39	-16	6	30	53	76	99	123
110	55.00	bu	-1	23	49	74	100	126	151	177	202	228	253
			-75	-50	-24	0	26	52	77	103	128	154	179
120	60.00	bu	31	59	87	115	143	171	199	226	254	282	310
			-42	-14	13	41	69	97	125	152	180	208	236
130	65.00	bu	65	95	125	155	186	216	246	276	307	337	367
			-8	21	51	81	112	142	172	202	232	263	293
140	70.00	bu	98	131	163	196	228	261	294	326	359	391	424
			24	57	89	122	154	187	220	252	285	317	350
150	75.00	bu	132	167	201	236	271	306	341	376	411	446	480
			58	93	127	162	197	232	267	302	337	372	406

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 2018 input prices.

Table 7.A Estimated costs per acre
 Soybeans, full-season, RR2, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	96.0000	13.44	_____
2,4-D Amine 4	pt	2.40	2.0000	4.80	_____
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.34	50.0000	67.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.3128	4.44	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1051	0.96	_____
UNALLOCATED LABOR					
	hour	14.24	0.3734	5.32	_____
DIESEL FUEL					
Tractors	gal	2.60	3.0592	7.96	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	4.75	1.0000	4.75	_____
Tractors	acre	1.70	1.0000	1.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	9.12	1.0000	9.12	_____
TOTAL DIRECT EXPENSES				278.47	_____
FIXED EXPENSES					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	11.82	1.0000	11.82	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				37.82	_____
TOTAL SPECIFIED EXPENSES				316.29	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	43.0000	399.90	_____

TOTAL INCOME				399.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	60.92	1.0000	60.92	_____
INSECTICIDES	acre	5.94	1.0000	5.94	_____
SEED/PLANTS	acre	67.00	1.0000	67.00	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1051	0.96	_____
OPERATOR LABOR	hour	14.23	0.4149	5.89	_____
UNALLOCATED LABOR	hour	14.24	0.3734	5.32	_____
DIESEL FUEL	gal	2.60	4.4528	11.58	_____
REPAIR & MAINTENANCE	acre	10.06	1.0000	10.06	_____
INTEREST ON OP. CAP.	acre	9.12	1.0000	9.12	_____

TOTAL DIRECT EXPENSES				278.47	_____
RETURNS ABOVE DIRECT EXPENSES				121.43	_____
TOTAL FIXED EXPENSES				37.82	_____

TOTAL SPECIFIED EXPENSES				316.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				83.61	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.C Estimated resource use for field operations, per acre
 Soybeans, full-season, RR2, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
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	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	12R-30	MFWD 190	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.41	0.41	0.52	0.37

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus(46% P2O5)	cwt	15.68						0.94	16.62	16.62
Potash (60% K2O)	cwt	20.00						1.20	21.20	21.20
Disk Harrow	24'		2.08	1.42	2.21			0.34	6.05	5.36
Field Cultivate Fld	24'		1.58	0.78	1.69			0.24	4.29	4.43
App by Air (5 gal)	appl	6.50						0.23	6.73	6.73
Glyphosate 3lbs a.e	oz	4.48						0.16	4.64	4.64
2,4-D Amine 4	pt	4.80						0.17	4.97	4.97
Plant - Folding	12R-30		1.60	1.95	2.27			0.17	5.99	5.79
Soybean Seed RR2	lb	67.00						2.01	69.01	69.01
CruiserMaxx	oz	6.85						0.21	7.06	7.06
Boundary	pt	22.42						0.67	23.09	23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42	7.42
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Prefix	pt	13.06						0.33	13.39	13.39
Soybeans Consultant	acre	6.50						0.16	6.66	6.66
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Spray (Broadcast)	60'		0.72	0.36	0.89			0.02	1.99	1.34
Acephate 90SP	lb	5.94						0.06	6.00	6.00
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Gramoxone SL	oz	2.40						0.02	2.42	2.42
Surfactant	pt	0.72						0.01	0.73	0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00
Haul Soybeans	bu	11.61						0.06	11.67	11.67
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22
TOTALS		235.54	11.58	10.06	12.17	0.00	9.12	278.47	37.82	316.29

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	399.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	35.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	9.28	29.62	22.02	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.72	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.90	0.00	0.00	0.00	0.00	0.00	2.27	1.78	0.00	0.00	0.89	3.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.66	0.00	0.00	0.00	0.00	0.00	1.60	1.44	0.00	0.00	0.72	4.16
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.00	0.00	0.00	1.95	0.72	0.00	0.00	0.36	4.83
INTEREST ON OP. CAP.	4.13	0.00	0.00	0.00	0.00	0.56	3.32	0.81	0.00	0.00	0.18	0.12
TOTAL DIRECT EXPENSES	73.05	0.00	0.00	0.00	0.00	16.34	114.05	33.27	0.00	0.00	17.71	24.05
NET INCOME	-73.05	0.00	0.00	0.00	0.00	-16.34	-114.05	-33.27	0.00	0.00	-17.71	375.85
NET INCOME TO DATE	-73.05	-73.05	-73.05	-73.05	-73.05	-89.39	-203.44	-236.71	-236.71	-236.71	-254.42	121.43

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-122	-112	-102	-92	-82	-72	-62	-52	-42	-32	-22
			-160	-150	-140	-130	-120	-110	-100	-90	-80	-70	-60
60	25.80	bu	-93	-81	-69	-57	-45	-33	-21	-9	2	14	26
			-131	-119	-107	-95	-83	-71	-59	-47	-35	-23	-11
70	30.10	bu	-65	-51	-37	-23	-9	4	18	32	46	60	74
			-102	-88	-74	-60	-46	-32	-18	-4	9	23	37
80	34.40	bu	-36	-20	-4	11	27	43	59	75	91	107	123
			-74	-58	-42	-26	-10	5	21	37	53	69	85
90	38.70	bu	-7	10	28	46	64	82	100	118	136	154	172
			-45	-27	-9	8	26	44	62	80	98	116	134
100	43.00	bu	21	41	61	81	101	121	141	161	181	201	221
			-16	3	23	43	63	83	103	123	143	163	183
110	47.30	bu	50	72	94	116	138	160	182	204	226	248	270
			12	34	56	78	100	122	144	166	188	210	232
120	51.60	bu	79	103	127	151	175	199	223	247	271	295	319
			41	65	89	113	137	161	185	209	233	257	281
130	55.90	bu	107	133	159	185	211	237	263	289	315	341	367
			70	96	122	148	174	200	226	252	278	304	330
140	60.20	bu	136	164	192	220	248	276	304	332	360	388	416
			98	126	154	182	210	238	266	294	322	350	378
150	64.50	bu	165	195	225	255	285	315	345	375	405	435	465
			127	157	187	217	247	277	307	337	367	397	427

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 2018 input prices.

Table 8.A Estimated costs per acre
Soybeans, full-season, RR2, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	96.0000	13.44	_____
Select Max	pt	12.71	1.0000	12.71	_____
Fierce	oz	7.54	3.5000	26.39	_____
Gramoxone SL 2.0	oz	0.15	96.0000	14.40	_____
Boundary	pt	11.21	2.0000	22.42	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Dimilin 2L	oz	2.13	1.0000	2.13	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Baythroid XL	oz	2.65	1.0650	2.82	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.34	50.0000	67.00	_____
ADJUVANTS					
Surfactant	pt	3.59	1.4500	5.21	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4647	6.60	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1523	1.38	_____
UNALLOCATED LABOR	hour	14.22	0.5102	7.26	_____
DIESEL FUEL					
Tractors	gal	2.60	4.6579	12.12	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	6.17	1.0000	6.17	_____
Tractors	acre	2.56	1.0000	2.56	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.78	1.0000	8.78	_____
TOTAL DIRECT EXPENSES				343.83	_____
FIXED EXPENSES					
Implements	acre	13.35	1.0000	13.35	_____
Tractors	acre	17.79	1.0000	17.79	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				46.66	_____
TOTAL SPECIFIED EXPENSES				390.49	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	40.0000	372.00	_____

TOTAL INCOME				372.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	102.42	1.0000	102.42	_____
INSECTICIDES	acre	23.43	1.0000	23.43	_____
SEED/PLANTS	acre	67.00	1.0000	67.00	_____
ADJUVANTS	acre	5.22	1.0000	5.22	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1523	1.38	_____
OPERATOR LABOR	hour	14.23	0.5669	8.05	_____
UNALLOCATED LABOR	hour	14.22	0.5102	7.26	_____
DIESEL FUEL	gal	2.60	6.0515	15.74	_____
REPAIR & MAINTENANCE	acre	12.34	1.0000	12.34	_____
INTEREST ON OP. CAP.	acre	8.78	1.0000	8.78	_____

TOTAL DIRECT EXPENSES				343.83	_____
RETURNS ABOVE DIRECT EXPENSES				28.17	_____
TOTAL FIXED EXPENSES				46.66	_____

TOTAL SPECIFIED EXPENSES				390.49	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-18.49	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed/Lister-Roll-Fold	12R-30	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Prevathon	oz					14.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Baythroid XL	oz					1.0650				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.56	0.56	0.71	0.51

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.02	3.35		3.35
Lime (Spread)	ton	12.65						0.06	12.71		12.71
Disk Harrow	24'		2.08	1.42	2.21			0.03	5.74	5.36	11.10
Field Cultivate Fld	24'		1.58	0.78	1.69			0.02	4.07	4.43	8.50
Bed/Lister-Roll-Fold	12R-30		1.88	0.83	1.69			0.02	4.42	3.91	8.33
Spray (Broadcast)	60'		0.72	0.36	0.89			0.09	2.06	1.34	3.40
Glyphosate 3lbs a.e	oz	4.48						0.20	4.68		4.68
Select Max	pt	12.71						0.57	13.28		13.28
Surfactant	pt	1.44						0.06	1.50		1.50
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Phosphorus (46% P2O5)	cwt	15.68						0.55	16.23		16.23
Potash (60% K2O)	cwt	20.00						0.70	20.70		20.70
Spray (Broadcast)	60'		0.72	0.36	0.89			0.07	2.04	1.34	3.38
Fierce	oz	26.39						0.92	27.31		27.31
Gramoxone SL 2.0	oz	7.20						0.25	7.45		7.45
Surfactant	pt	1.44						0.05	1.49		1.49
Soybeans Consultant	acre	6.50						0.20	6.70		6.70
Plant & Pre-Folding	12R-30		1.72	2.32	2.44			0.19	6.67	6.70	13.37
Soybean Seed RR2	lb	67.00						2.01	69.01		69.01
CruiserMaxx	oz	6.85						0.21	7.06		7.06
Boundary	pt	22.42						0.67	23.09		23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Surfactant	pt	1.44						0.04	1.48		1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.06	2.03	1.34	3.37
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Prefix	pt	13.06						0.39	13.45		13.45
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34	3.36
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Spray (Broadcast)	60'		0.36	0.18	0.44			0.02	1.00	0.67	1.67
Dimilin 2L	oz	2.13						0.04	2.17		2.17
Surfactant	pt	0.18							0.18		0.18
Spray (Broadcast)	60'		0.72	0.36	0.89			0.03	2.00	1.34	3.34
Prevathon	oz	18.48						0.28	18.76		18.76
Spray (Broadcast)	60'		0.36	0.18	0.44			0.01	0.99	0.67	1.66
Baythroid XL	oz	2.82						0.04	2.86		2.86
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Gramoxone SL	oz	2.40						0.02	2.42		2.42
Surfactant	pt	0.72						0.01	0.73		0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00	27.93
Haul Soybeans	bu	10.80						0.05	10.85		10.85
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22	2.67
TOTALS		290.28	15.74	12.34	16.69	0.00	8.78	343.83	46.66	390.49	

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	372.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	35.68	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	17.19	0.00	33.59	47.16	4.48	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	21.30	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.44	0.00	1.44	1.44	0.00	0.18	0.00	0.72	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.65
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.89	0.00	0.89	3.33	0.89	0.44	1.33	0.00	8.92
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	0.72	0.00	0.72	2.44	0.72	0.36	1.08	0.00	9.70
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.36	0.00	0.36	2.68	0.36	0.18	0.54	0.00	7.86
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.92	0.00	2.80	4.12	0.16	0.06	0.36	0.10	0.26
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	21.52	0.00	82.98	141.52	6.61	3.35	24.61	9.72	53.52
NET INCOME	0.00	0.00	0.00	-21.52	0.00	-82.98	-141.52	-6.61	-3.35	-24.61	-9.72	318.48
NET INCOME TO DATE	0.00	0.00	0.00	-21.52	-21.52	-104.50	-246.02	-252.63	-255.98	-280.59	-290.31	28.17

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2, May planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-198 -245	-189 -236	-180 -226	-171 -217	-161 -208	-152 -199	-143 -189	-133 -180	-124 -171	-115 -161	-105 -152
60	24.00	bu	-172 -218	-160 -207	-149 -196	-138 -185	-127 -174	-116 -162	-105 -151	-93 -140	-82 -129	-71 -118	-60 -107
70	28.00	bu	-145 -191	-132 -178	-119 -165	-106 -152	-93 -139	-80 -126	-67 -113	-54 -100	-41 -87	-28 -74	-15 -61
80	32.00	bu	-118 -165	-103 -150	-88 -135	-73 -120	-58 -105	-44 -90	-29 -75	-14 -60	0 -46	15 -31	30 -16
90	36.00	bu	-91 -138	-74 -121	-58 -104	-41 -88	-24 -71	-7 -54	8 -37	25 -21	42 -4	59 12	75 29
100	40.00	bu	-64 -111	-46 -92	-27 -74	-9 -55	9 -37	28 -18	46 0	65 18	83 37	102 55	121 74
110	44.00	bu	-38 -84	-17 -64	2 -43	23 -23	43 -2	64 17	84 38	105 58	125 79	146 99	166 119
120	48.00	bu	-11 -57	11 -35	33 -13	55 9	78 31	100 53	122 76	145 98	167 120	189 143	212 165
130	52.00	bu	15 -31	39 -6	63 17	88 41	112 65	136 89	160 114	184 138	209 162	233 186	257 210
140	56.00	bu	42 -4	68 21	94 47	120 73	146 99	172 125	198 152	224 178	250 204	276 230	302 256
150	60.00	bu	69 22	97 50	125 78	152 106	180 134	208 162	236 189	264 217	292 245	320 273	348 301

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 2018 input prices.

Table 9.A Estimated costs per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2	lb	1.34	50.0000	67.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.5000	1.80	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.56	1.0000	8.56	_____
TOTAL DIRECT EXPENSES				294.95	_____
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				26.66	_____
TOTAL SPECIFIED EXPENSES				321.61	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	25.0000	232.50	_____

TOTAL INCOME				232.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.50	1.0000	19.50	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	47.16	1.0000	47.16	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	67.00	1.0000	67.00	_____
ADJUVANTS	acre	1.80	1.0000	1.80	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	2.7503	7.15	_____
REPAIR & MAINTENANCE	acre	7.57	1.0000	7.57	_____
INTEREST ON OP. CAP.	acre	8.56	1.0000	8.56	_____

TOTAL DIRECT EXPENSES				294.95	_____
RETURNS ABOVE DIRECT EXPENSES				-62.45	_____
TOTAL FIXED EXPENSES				26.66	_____

TOTAL SPECIFIED EXPENSES				321.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-89.11	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2	lb					50.0000				
CruiserMaxx	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
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				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.21	0.21	0.30	0.18

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus(46% P2O5)	cwt	20.66						1.24	21.90	21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20	28.20
Soybeans Consultant	acre	6.50						0.20	6.70	6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93
Soybean Seed RR2	lb	67.00						1.67	68.67	68.67
CruiserMaxx	oz	6.85						0.17	7.02	7.02
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	22.42						0.56	22.98	22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38	7.38
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57	4.57
Prefix	pt	13.06						0.26	13.32	13.32
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Acephate 90SP	lb	5.94						0.09	6.03	6.03
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prevathon	oz	18.48						0.28	18.76	18.76
Surfactant	pt	0.36						0.01	0.37	0.37
Bifenthrin	oz	4.86						0.07	4.93	4.93
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08	8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00
Haul Soybeans	bu	6.75						0.03	6.78	6.78
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30
TOTALS		265.13	7.15	7.57	6.54	0.00	8.56	294.95	26.66	321.61

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 9.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

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	232.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	17.54	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.36	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.88	0.00	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.85	0.00	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.38	0.00	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.20	2.83	0.39	0.65	0.15	0.09
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	6.70	116.08	20.04	43.29	14.65	19.20
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-6.70	-116.08	-20.04	-43.29	-14.65	213.30
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-81.69	-197.77	-217.81	-261.10	-275.75	-62.45

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2, 12R 30"
 Non-irrigated, All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-204 -231	-198 -225	-192 -219	-186 -213	-181 -207	-175 -201	-169 -196	-163 -190	-157 -184	-152 -178	-146 -172
60	15.00	bu	-187 -214	-180 -207	-173 -200	-166 -193	-159 -186	-152 -179	-145 -172	-138 -165	-131 -158	-124 -151	-117 -144
70	17.50	bu	-170 -197	-162 -189	-154 -181	-146 -173	-138 -164	-130 -156	-122 -148	-113 -140	-105 -132	-97 -124	-89 -116
80	20.00	bu	-154 -180	-144 -171	-135 -162	-126 -152	-116 -143	-107 -134	-98 -124	-88 -115	-79 -106	-70 -97	-61 -87
90	22.50	bu	-137 -163	-126 -153	-116 -143	-105 -132	-95 -122	-85 -111	-74 -101	-64 -90	-53 -80	-43 -69	-32 -59
100	25.00	bu	-120 -147	-108 -135	-97 -123	-85 -112	-74 -100	-62 -89	-50 -77	-39 -65	-27 -54	-15 -42	-4 -30
110	27.50	bu	-103 -130	-91 -117	-78 -104	-65 -92	-52 -79	-39 -66	-27 -53	-14 -40	-1 -28	11 -15	24 -2
120	30.00	bu	-87 -113	-73 -99	-59 -85	-45 -71	-31 -57	-17 -43	-3 -30	10 -16	24 -2	38 11	52 25
130	32.50	bu	-70 -96	-55 -81	-40 -66	-24 -51	-9 -36	5 -21	20 -6	35 8	50 23	65 39	80 54
140	35.00	bu	-53 -80	-37 -63	-20 -47	-4 -31	11 -15	27 1	44 17	60 33	76 50	92 66	109 82
150	37.50	bu	-36 -63	-19 -46	-1 -28	15 -11	32 6	50 23	67 41	85 58	102 76	120 93	137 110

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 2018 input prices.

Table 10.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
Quadris Top SBX	oz	2.75	7.0000	19.25	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.55	50.0000	77.50	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
1/2-mi Pivot Irr.	gal	2.60	16.4057	42.66	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
1/2-mi Pivot Irr.	acre	11.57	1.0000	11.57	_____
INTEREST ON OP. CAP.	acre	10.42	1.0000	10.42	_____
TOTAL DIRECT EXPENSES				394.87	_____
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
1/2-mi Pivot Irr.	acre	47.36	1.0000	47.36	_____
TOTAL FIXED EXPENSES				74.02	_____
TOTAL SPECIFIED EXPENSES				468.89	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, RR2X, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	50.0000	465.00	_____

TOTAL INCOME				465.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	26.10	1.0000	26.10	_____
HERBICIDES	acre	47.16	1.0000	47.16	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	77.50	1.0000	77.50	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	19.1560	49.81	_____
REPAIR & MAINTENANCE	acre	19.14	1.0000	19.14	_____
INTEREST ON OP. CAP.	acre	10.42	1.0000	10.42	_____

TOTAL DIRECT EXPENSES				394.87	_____
RETURNS ABOVE DIRECT EXPENSES				70.13	_____
TOTAL FIXED EXPENSES				74.02	_____

TOTAL SPECIFIED EXPENSES				468.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-3.89	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Quadris Top SBX	oz					7.0000				
Surfactant	pt					0.1000				
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				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.21	0.21	0.35	0.18

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus (46% P2O5)	cwt	20.66						1.24	21.90	21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20	28.20
Soybeans Consultant	acre	6.50						0.20	6.70	6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93
Soybean Seed RR2X	lb	77.50						1.94	79.44	79.44
CruiserMaxx	oz	6.85						0.17	7.02	7.02
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	22.42						0.56	22.98	22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38	7.38
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57	4.57
Prefix	pt	13.06						0.26	13.32	13.32
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Quadris Top SBX	oz	19.25						0.29	19.54	19.54
Surfactant	pt	0.36						0.01	0.37	0.37
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Acephate 90SP	lb	5.94						0.09	6.03	6.03
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prevathon	oz	18.48						0.28	18.76	18.76
Surfactant	pt	0.36						0.01	0.37	0.37
Bifenthrin	oz	4.86						0.07	4.93	4.93
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08	8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00
Haul Soybeans	bu	13.50						0.07	13.57	13.57
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30
1/2-mi Pivot Irr.	acre		42.66	11.57	0.47			1.15	55.85	47.36
TOTALS		308.49	49.81	19.14	7.01	0.00	10.42	394.87	74.02	468.89

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 10.E Estimated monthly income and expense flows per acre
 Soybeans, double crop after wheat, RR2X, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

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	465.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	19.25	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	17.54	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.72	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.44	0.93	0.04	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84	17.91	12.80	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63	1.12	0.55	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.21	3.68	0.75	1.25	0.15	0.13
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	7.05	150.55	38.25	83.39	14.65	25.99
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-7.05	-150.55	-38.25	-83.39	-14.65	439.01
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-82.04	-232.59	-270.84	-354.23	-368.88	70.13

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-213	-202	-190	-178	-167	-155	-143	-132	-120	-109	-97
			-287	-276	-264	-252	-241	-229	-217	-206	-194	-183	-171
60	30.00	bu	-180	-166	-152	-138	-124	-110	-96	-82	-68	-54	-40
			-254	-240	-226	-212	-198	-184	-170	-156	-142	-128	-114
70	35.00	bu	-146	-130	-114	-97	-81	-65	-49	-32	-16	-0	16
			-220	-204	-188	-171	-155	-139	-123	-106	-90	-74	-57
80	40.00	bu	-113	-94	-75	-57	-38	-20	-1	17	35	54	72
			-187	-168	-149	-131	-112	-94	-75	-56	-38	-19	-1
90	45.00	bu	-79	-58	-37	-16	4	24	45	66	87	108	129
			-153	-132	-111	-90	-69	-49	-28	-7	13	34	55
100	50.00	bu	-46	-22	0	23	46	70	93	116	139	163	186
			-120	-96	-73	-50	-27	-3	19	42	65	89	112
110	55.00	bu	-12	12	38	64	89	115	140	166	191	217	243
			-86	-61	-35	-9	15	41	66	92	117	143	169
120	60.00	bu	20	48	76	104	132	160	188	216	244	272	299
			-53	-25	2	30	58	86	114	142	170	197	225
130	65.00	bu	54	84	114	145	175	205	235	266	296	326	356
			-19	10	40	71	101	131	161	191	222	252	282
140	70.00	bu	87	120	153	185	218	250	283	315	348	380	413
			13	46	79	111	144	176	209	241	274	306	339
150	75.00	bu	121	156	191	226	260	295	330	365	400	435	470
			47	82	117	152	186	221	256	291	326	361	396

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 2018 input prices.

Table 11.A Estimated costs per acre
Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	96.0000	13.44	_____
2,4-D Amine 4	pt	2.40	2.0000	4.80	_____
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.55	50.0000	77.50	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.3128	4.44	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1051	0.96	_____
UNALLOCATED LABOR					
	hour	14.24	0.3734	5.32	_____
DIESEL FUEL					
Tractors	gal	2.60	3.0592	7.96	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	4.75	1.0000	4.75	_____
Tractors	acre	1.70	1.0000	1.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	9.43	1.0000	9.43	_____
TOTAL DIRECT EXPENSES				289.28	_____
FIXED EXPENSES					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	11.82	1.0000	11.82	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				37.82	_____
TOTAL SPECIFIED EXPENSES				327.10	_____

Note: Cost of production estimates are based on 2018 input prices. .
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	43.0000	399.90	_____

TOTAL INCOME				399.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	60.92	1.0000	60.92	_____
INSECTICIDES	acre	5.94	1.0000	5.94	_____
SEED/PLANTS	acre	77.50	1.0000	77.50	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1051	0.96	_____
OPERATOR LABOR	hour	14.23	0.4149	5.89	_____
UNALLOCATED LABOR	hour	14.24	0.3734	5.32	_____
DIESEL FUEL	gal	2.60	4.4528	11.58	_____
REPAIR & MAINTENANCE	acre	10.06	1.0000	10.06	_____
INTEREST ON OP. CAP.	acre	9.43	1.0000	9.43	_____

TOTAL DIRECT EXPENSES				289.28	_____
RETURNS ABOVE DIRECT EXPENSES				110.62	_____
TOTAL FIXED EXPENSES				37.82	_____

TOTAL SPECIFIED EXPENSES				327.10	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				72.80	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.C Estimated resource use for field operations, per acre
 Soybeans, full-season, RR2X, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
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	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	12R-30	MFWD 190	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.41	0.41	0.52	0.37

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus(46% P2O5)	cwt	15.68						0.94	16.62	16.62
Potash (60% K2O)	cwt	20.00						1.20	21.20	21.20
Disk Harrow	24'		2.08	1.42	2.21			0.34	6.05	5.36
Field Cultivate Fld	24'		1.58	0.78	1.69			0.24	4.29	4.43
App by Air (5 gal)	appl	6.50						0.23	6.73	6.73
Glyphosate 3lbs a.e	oz	4.48						0.16	4.64	4.64
2,4-D Amine 4	pt	4.80						0.17	4.97	4.97
Plant - Folding	12R-30		1.60	1.95	2.27			0.17	5.99	5.79
Soybean Seed RR2X	lb	77.50						2.32	79.82	79.82
CruiserMaxx	oz	6.85						0.21	7.06	7.06
Boundary	pt	22.42						0.67	23.09	23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42	7.42
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Prefix	pt	13.06						0.33	13.39	13.39
Soybeans Consultant	acre	6.50						0.16	6.66	6.66
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Spray (Broadcast)	60'		0.72	0.36	0.89			0.02	1.99	1.34
Acephate 90SP	lb	5.94						0.06	6.00	6.00
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Gramoxone SL	oz	2.40						0.02	2.42	2.42
Surfactant	pt	0.72						0.01	0.73	0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00
Haul Soybeans	bu	11.61						0.06	11.67	11.67
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22
TOTALS		246.04	11.58	10.06	12.17	0.00	9.43	289.28	37.82	327.10

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	399.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	35.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	9.28	29.62	22.02	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	77.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.72	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.90	0.00	0.00	0.00	0.00	0.00	2.27	1.78	0.00	0.00	0.89	3.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.66	0.00	0.00	0.00	0.00	0.00	1.60	1.44	0.00	0.00	0.72	4.16
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.00	0.00	0.00	1.95	0.72	0.00	0.00	0.36	4.83
INTEREST ON OP. CAP.	4.13	0.00	0.00	0.00	0.00	0.56	3.63	0.81	0.00	0.00	0.18	0.12
TOTAL DIRECT EXPENSES	73.05	0.00	0.00	0.00	0.00	16.34	124.86	33.27	0.00	0.00	17.71	24.05
NET INCOME	-73.05	0.00	0.00	0.00	0.00	-16.34	-124.86	-33.27	0.00	0.00	-17.71	375.85
NET INCOME TO DATE	-73.05	-73.05	-73.05	-73.05	-73.05	-89.39	-214.25	-247.52	-247.52	-247.52	-265.23	110.62

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT YIELD UNIT			dollars										
50	21.50	bu	-133 -171	-123 -161	-113 -151	-103 -141	-93 -131	-83 -121	-73 -111	-63 -101	-53 -91	-43 -81	-33 -71
60	25.80	bu	-104 -142	-92 -130	-80 -118	-68 -106	-56 -94	-44 -82	-32 -70	-20 -58	-8 -46	3 -34	15 -22
70	30.10	bu	-75 -113	-61 -99	-47 -85	-33 -71	-19 -57	-5 -43	8 -29	22 -15	36 -1	50 12	64 26
80	34.40	bu	-47 -84	-31 -68	-15 -52	0 -36	16 -20	32 -4	48 11	64 27	80 43	96 59	112 75
90	38.70	bu	-18 -56	-0 -38	17 -20	35 -2	53 15	71 33	89 51	107 69	125 87	143 105	161 123
100	43.00	bu	10 -27	30 -7	50 12	70 32	90 52	110 72	130 92	150 112	170 132	190 152	210 172
110	47.30	bu	39 1	61 23	83 45	105 67	127 89	149 111	171 133	193 155	215 177	237 199	259 221
120	51.60	bu	68 30	92 54	116 78	140 102	164 126	188 150	212 174	236 198	260 222	284 246	308 270
130	55.90	bu	97 59	123 85	149 111	175 137	201 163	227 189	253 215	279 241	305 267	331 293	357 319
140	60.20	bu	125 88	153 116	181 144	209 172	237 200	265 228	293 256	321 284	349 312	377 340	405 368
150	64.50	bu	154 116	184 146	214 176	244 206	274 236	304 266	334 296	364 326	394 356	424 386	454 416

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2018 input prices.

Table 12.A Estimated costs per acre
Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	96.0000	13.44	_____
Select Max	pt	12.71	1.0000	12.71	_____
Fierce	oz	7.54	3.5000	26.39	_____
Gramoxone SL 2.0	oz	0.15	96.0000	14.40	_____
Boundary	pt	11.21	2.0000	22.42	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Dimilin 2L	oz	2.13	1.0000	2.13	_____
Baythroid XL	oz	2.65	1.0650	2.82	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.55	50.0000	77.50	_____
ADJUVANTS					
Surfactant	pt	3.59	1.4500	5.21	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4365	6.20	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1382	1.25	_____
UNALLOCATED LABOR	hour	14.23	0.4848	6.90	_____
DIESEL FUEL					
Tractors	gal	2.60	4.3820	11.40	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.96	1.0000	5.96	_____
Tractors	acre	2.41	1.0000	2.41	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.78	1.0000	8.78	_____
TOTAL DIRECT EXPENSES				333.88	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	16.72	1.0000	16.72	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				45.32	_____
TOTAL SPECIFIED EXPENSES				379.20	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	40.0000	372.00	_____

TOTAL INCOME				372.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	102.42	1.0000	102.42	_____
INSECTICIDES	acre	4.95	1.0000	4.95	_____
SEED/PLANTS	acre	77.50	1.0000	77.50	_____
ADJUVANTS	acre	5.22	1.0000	5.22	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1382	1.25	_____
OPERATOR LABOR	hour	14.23	0.5387	7.65	_____
UNALLOCATED LABOR	hour	14.23	0.4848	6.90	_____
DIESEL FUEL	gal	2.60	5.7756	15.02	_____
REPAIR & MAINTENANCE	acre	11.98	1.0000	11.98	_____
INTEREST ON OP. CAP.	acre	8.78	1.0000	8.78	_____

TOTAL DIRECT EXPENSES				333.88	_____
RETURNS ABOVE DIRECT EXPENSES				38.12	_____
TOTAL FIXED EXPENSES				45.32	_____

TOTAL SPECIFIED EXPENSES				379.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-7.20	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre..

Table 12.C Estimated resource use for field operations, per acre
 Soybeans, full-season, RR2X, May planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed/Lister-Roll-Fold	12R-30	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Baythroid XL	oz					1.0650				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.53	0.53	0.67	0.48

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.02	3.35		3.35
Lime (Spread)	ton	12.65						0.06	12.71		12.71
Disk Harrow	24'		2.08	1.42	2.21			0.03	5.74	5.36	11.10
Field Cultivate Fld	24'		1.58	0.78	1.69			0.02	4.07	4.43	8.50
Bed/Lister-Roll-Fold	12R-30		1.88	0.83	1.69			0.02	4.42	3.91	8.33
Spray (Broadcast)	60'		0.72	0.36	0.89			0.09	2.06	1.34	3.40
Glyphosate 3lbs a.e	oz	4.48						0.20	4.68		4.68
Select Max	pt	12.71						0.57	13.28		13.28
Surfactant	pt	1.44						0.06	1.50		1.50
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Phosphorus (46% P2O5)	cwt	15.68						0.55	16.23		16.23
Potash (60% K2O)	cwt	20.00						0.70	20.70		20.70
Spray (Broadcast)	60'		0.72	0.36	0.89			0.07	2.04	1.34	3.38
Fierce	oz	26.39						0.92	27.31		27.31
Gramoxone SL 2.0	oz	7.20						0.25	7.45		7.45
Surfactant	pt	1.44						0.05	1.49		1.49
Soybeans Consultant	acre	6.50						0.20	6.70		6.70
Plant & Pre-Folding	12R-30		1.72	2.32	2.44			0.19	6.67	6.70	13.37
Soybean Seed RR2X	lb	77.50						2.32	79.82		79.82
CruiserMaxx	oz	6.85						0.21	7.06		7.06
Boundary	pt	22.42						0.67	23.09		23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Surfactant	pt	1.44						0.04	1.48		1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.06	2.03	1.34	3.37
Glyphosate 3lbs a.e	oz	4.48						0.13	4.61		4.61
Prefix	pt	13.06						0.39	13.45		13.45
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34	3.36
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Spray (Broadcast)	60'		0.36	0.18	0.44			0.02	1.00	0.67	1.67
Dimilin 2L	oz	2.13						0.04	2.17		2.17
Surfactant	pt	0.18							0.18		0.18
Spray (Broadcast)	60'		0.36	0.18	0.44			0.01	0.99	0.67	1.66
Baythroid XL	oz	2.82						0.04	2.86		2.86
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Gramoxone SL	oz	2.40						0.02	2.42		2.42
Surfactant	pt	0.72						0.01	0.73		0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00	27.93
Haul Soybeans	bu	10.80						0.05	10.85		10.85
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22	2.67
TOTALS		282.30	15.02	11.98	15.80	0.00	8.78	333.88	45.32	379.20	

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second Fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	372.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	35.68	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	17.19	0.00	33.59	47.16	4.48	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	2.82	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	77.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.44	0.00	1.44	1.44	0.00	0.18	0.00	0.72	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.65
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.89	0.00	0.89	3.33	0.89	0.44	0.44	0.00	8.92
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	0.72	0.00	0.72	2.44	0.72	0.36	0.36	0.00	9.70
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.36	0.00	0.36	2.68	0.36	0.18	0.18	0.00	7.86
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.92	0.00	2.80	4.43	0.16	0.06	0.05	0.10	0.26
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	21.52	0.00	82.98	152.33	6.61	3.35	3.85	9.72	53.52
NET INCOME	0.00	0.00	0.00	-21.52	0.00	-82.98	-152.33	-6.61	-3.35	-3.85	-9.72	318.48
NET INCOME TO DATE	0.00	0.00	0.00	-21.52	-21.52	-104.50	-256.83	-263.44	-266.79	-270.64	-280.36	38.12

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X, May planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-188	-179	-170	-161	-151	-142	-133	-123	-114	-105	-95
			-234	-224	-215	-206	-197	-187	-178	-169	-159	-150	-141
60	24.00	bu	-162	-150	-139	-128	-117	-106	-95	-84	-72	-61	-50
			-207	-196	-185	-173	-162	-151	-140	-129	-118	-107	-95
70	28.00	bu	-135	-122	-109	-96	-83	-70	-57	-44	-31	-18	-5
			-180	-167	-154	-141	-128	-115	-102	-89	-76	-63	-50
80	32.00	bu	-108	-93	-78	-63	-48	-34	-19	-4	10	25	40
			-153	-138	-124	-109	-94	-79	-64	-49	-34	-19	-5
90	36.00	bu	-81	-64	-48	-31	-14	2	18	35	52	68	85
			-127	-110	-93	-76	-60	-43	-26	-9	6	23	40
100	40.00	bu	-54	-36	-17	0	19	38	56	75	93	112	131
			-100	-81	-63	-44	-25	-7	11	30	48	67	85
110	44.00	bu	-28	-7	12	33	53	74	94	115	135	156	176
			-73	-52	-32	-12	8	28	49	69	90	110	131
120	48.00	bu	-1	21	43	65	88	110	132	154	177	199	221
			-46	-24	-1	20	42	65	87	109	131	154	176
130	52.00	bu	25	49	73	98	122	146	170	194	219	243	267
			-19	4	28	52	76	101	125	149	173	197	222
140	56.00	bu	52	78	104	130	156	182	208	234	260	286	312
			7	33	59	85	111	137	163	189	215	241	267
150	60.00	bu	79	107	134	162	190	218	246	274	302	330	358
			33	61	89	117	145	173	201	229	257	284	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 2018 input prices.

Table 13.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Prefix	pt	6.53	2.0000	13.06	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.55	50.0000	77.50	_____
ADJUVANTS					
Surfactant	pt	3.59	0.5000	1.80	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR					
	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.83	1.0000	8.83	_____
TOTAL DIRECT EXPENSES				305.72	_____
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				26.66	_____
TOTAL SPECIFIED EXPENSES				332.38	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	25.0000	232.50	_____

TOTAL INCOME				232.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.50	1.0000	19.50	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	47.16	1.0000	47.16	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	77.50	1.0000	77.50	_____
ADJUVANTS	acre	1.80	1.0000	1.80	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	2.7503	7.15	_____
REPAIR & MAINTENANCE	acre	7.57	1.0000	7.57	_____
INTEREST ON OP. CAP.	acre	8.83	1.0000	8.83	_____

TOTAL DIRECT EXPENSES				305.72	_____
RETURNS ABOVE DIRECT EXPENSES				-73.22	_____
TOTAL FIXED EXPENSES				26.66	_____

TOTAL SPECIFIED EXPENSES				332.38	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-99.88	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Prefix	pt					2.0000				
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				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01

TOTALS							0.21	0.21	0.30	0.18

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus(46% P2O5)	cwt	20.66						1.24	21.90	21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20	28.20
Soybeans Consulting	acre	6.50						0.20	6.70	6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93
Soybean Seed RR2X	lb	77.50						1.94	79.44	79.44
CruiserMaxx	oz	6.85						0.17	7.02	7.02
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	22.42						0.56	22.98	22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38	7.38
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57	4.57
Prefix	pt	13.06						0.26	13.32	13.32
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Acephate 90SP	lb	5.94						0.09	6.03	6.03
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prevathon	oz	18.48						0.28	18.76	18.76
Surfactant	pt	0.36						0.01	0.37	0.37
Bifenthrin	oz	4.86						0.07	4.93	4.93
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08	8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00
Haul Soybeans	bu	6.75						0.03	6.78	6.78
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30
TOTALS		275.63	7.15	7.57	6.54	0.00	8.83	305.72	26.66	332.38

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

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	232.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	17.54	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.36	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.88	0.00	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.85	0.00	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.38	0.00	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.20	3.10	0.39	0.65	0.15	0.09
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	6.70	126.85	20.04	43.29	14.65	19.20
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-6.70	-126.85	-20.04	-43.29	-14.65	213.30
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-81.69	-208.54	-228.58	-271.87	-286.52	-73.22

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X, 12R 30"
 Non-irrigated, All Areas, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-215 -241	-209 -235	-203 -230	-197 -224	-191 -218	-186 -212	-180 -206	-174 -201	-168 -195	-162 -189	-157 -183
60	15.00	bu	-198 -225	-191 -218	-184 -211	-177 -204	-170 -197	-163 -190	-156 -183	-149 -176	-142 -169	-135 -162	-128 -155
70	17.50	bu	-181 -208	-173 -200	-165 -192	-157 -183	-149 -175	-140 -167	-132 -159	-124 -151	-116 -143	-108 -135	-100 -126
80	20.00	bu	-164 -191	-155 -182	-146 -172	-136 -163	-127 -154	-118 -145	-109 -135	-99 -126	-90 -117	-81 -107	-71 -98
90	22.50	bu	-148 -174	-137 -164	-127 -153	-116 -143	-106 -132	-95 -122	-85 -111	-74 -101	-64 -91	-53 -80	-43 -70
100	25.00	bu	-131 -158	-119 -146	-108 -134	-96 -123	-84 -111	-73 -99	-61 -88	-49 -76	-38 -65	-26 -53	-15 -41
110	27.50	bu	-114 -141	-101 -128	-89 -115	-76 -102	-63 -90	-50 -77	-37 -64	-25 -51	-12 -38	0 -26	13 -13
120	30.00	bu	-97 -124	-83 -110	-69 -96	-55 -82	-42 -68	-28 -54	-14 -40	-0 -26	13 -12	27 1	41 15
130	32.50	bu	-81 -107	-65 -92	-50 -77	-35 -62	-20 -47	-5 -32	9 -17	24 -1	39 13	54 28	70 43
140	35.00	bu	-64 -90	-48 -74	-31 -58	-15 -42	0 -25	17 -9	33 6	49 22	65 39	82 55	98 71
150	37.50	bu	-47 -74	-30 -56	-12 -39	4 -21	22 -4	39 12	57 30	74 47	91 65	109 82	126 100

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 2018 input prices.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, LL, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	4.0000	26.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
Quadris Top SBX	oz	2.75	7.0000	19.25	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Liberty 280	oz	0.59	29.0000	17.11	_____
Dual Magnum	pt	13.81	1.0000	13.81	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed LL	lb	1.42	50.0000	71.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
1/2-mi Pivot Irr.	gal	2.60	16.4057	42.66	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
1/2-mi Pivot Irr.	acre	11.57	1.0000	11.57	_____
INTEREST ON OP. CAP.	acre	10.53	1.0000	10.53	_____
TOTAL DIRECT EXPENSES				401.86	_____
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
1/2-mi Pivot Irr.	acre	47.36	1.0000	47.36	_____
TOTAL FIXED EXPENSES				74.02	_____
TOTAL SPECIFIED EXPENSES				475.88	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	50.0000	465.00	_____

TOTAL INCOME				465.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	26.00	1.0000	26.00	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	26.10	1.0000	26.10	_____
HERBICIDES	acre	60.54	1.0000	60.54	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	71.00	1.0000	71.00	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	19.1560	49.81	_____
REPAIR & MAINTENANCE	acre	19.14	1.0000	19.14	_____
INTEREST ON OP. CAP.	acre	10.53	1.0000	10.53	_____

TOTAL DIRECT EXPENSES				401.86	_____
RETURNS ABOVE DIRECT EXPENSES				63.14	_____
TOTAL FIXED EXPENSES				74.02	_____

TOTAL SPECIFIED EXPENSES				475.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-10.88	_____

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed LL	lb					50.0000				
CruiserMaxx	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Quadris Top SBX	oz					7.0000				
Surfactant	pt					0.1000				
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				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.21	0.21	0.35	0.18

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, LL, 12R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus (46% P2O5)	cwt	20.66						1.24	21.90	21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20	28.20
Soybeans Consultant	acre	6.50						0.20	6.70	6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93
Soybean Seed LL	lb	71.00						1.78	72.78	72.78
CruiserMaxx	oz	6.85						0.17	7.02	7.02
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	22.42						0.56	22.98	22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38	7.38
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43
Liberty 280	oz	17.11						0.34	17.45	17.45
Dual Magnum	pt	13.81						0.28	14.09	14.09
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Quadris Top SBX	oz	19.25						0.29	19.54	19.54
Surfactant	pt	0.36						0.01	0.37	0.37
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Acephate 90SP	lb	5.94						0.09	6.03	6.03
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prevathon	oz	18.48						0.28	18.76	18.76
Surfactant	pt	0.36						0.01	0.37	0.37
Bifenthrin	oz	4.86						0.07	4.93	4.93
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08	8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00
Haul Soybeans	bu	13.50						0.07	13.57	13.57
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30
1/2-mi Pivot Irr.	acre		42.66	11.57	0.47			1.15	55.85	47.36
TOTALS		315.37	49.81	19.14	7.01	0.00	10.53	401.86	74.02	475.88

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

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	465.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	19.25	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	30.92	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.72	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.44	0.93	0.04	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84	17.91	12.80	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63	1.12	0.55	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.21	3.52	1.02	1.25	0.15	0.13
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	7.05	143.89	51.90	83.39	14.65	25.99
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-7.05	-143.89	-51.90	-83.39	-14.65	439.01
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-82.04	-225.93	-277.83	-361.22	-375.87	63.14

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
			dollars										
PERCENT	YIELD	UNIT											
50	25.00	bu	-220 -294	-209 -283	-197 -271	-185 -259	-174 -248	-162 -236	-150 -224	-139 -213	-127 -201	-116 -190	-104 -178
60	30.00	bu	-187 -261	-173 -247	-159 -233	-145 -219	-131 -205	-117 -191	-103 -177	-89 -163	-75 -149	-61 -135	-47 -121
70	35.00	bu	-153 -227	-137 -211	-121 -195	-104 -178	-88 -162	-72 -146	-56 -130	-39 -113	-23 -97	-7 -81	9 -64
80	40.00	bu	-120 -194	-101 -175	-82 -156	-64 -138	-45 -119	-27 -101	-8 -82	10 -63	28 -45	47 -26	65 -8
90	45.00	bu	-86 -160	-65 -139	-44 -118	-23 -97	-2 -76	17 -56	38 -35	59 -14	80 6	101 27	122 48
100	50.00	bu	-53 -127	-29 -103	-6 -80	16 -57	39 -34	63 -10	86 12	109 35	132 58	156 82	179 105
110	55.00	bu	-19 -93	5 -68	31 -42	57 -16	82 8	108 34	133 59	159 85	185 110	210 136	236 162
120	60.00	bu	13 -60	41 -32	69 -4	97 23	125 51	153 79	181 107	209 135	237 163	265 191	292 218
130	65.00	bu	47 -26	77 3	107 33	138 64	168 94	198 124	228 154	259 184	289 215	319 245	349 275
140	70.00	bu	80 6	113 39	146 72	178 104	211 137	243 169	276 202	308 234	341 267	373 299	406 332
150	75.00	bu	114 40	149 75	184 110	219 145	253 179	288 214	323 249	358 284	393 319	428 354	463 389

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 2018 input prices.

Table 15.A Estimated costs per acre
Soybeans, full-season, LL, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
2,4-D Amine 4	pt	2.40	2.0000	4.80	_____
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Liberty 280	oz	0.59	58.0000	34.22	_____
Dual Magnum	pt	13.81	1.0000	13.81	_____
Zidua	oz	9.05	1.5000	13.58	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
SEED/PLANTS					
Soybean Seed LL	lb	1.42	50.0000	71.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.6000	2.15	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.3128	4.44	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1051	0.96	_____
UNALLOCATED LABOR	hour	14.24	0.3734	5.32	_____
DIESEL FUEL					
Tractors	gal	2.60	3.0592	7.96	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	4.75	1.0000	4.75	_____
Tractors	acre	1.70	1.0000	1.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____
TOTAL DIRECT EXPENSES				323.18	_____
FIXED EXPENSES					
Implements	acre	10.48	1.0000	10.48	_____
Tractors	acre	11.82	1.0000	11.82	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				37.82	_____
TOTAL SPECIFIED EXPENSES				361.00	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.B Summary of estimated costs and returns per acre
Soybeans, full-season, LL, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	43.0000	399.90	_____

TOTAL INCOME				399.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	100.51	1.0000	100.51	_____
INSECTICIDES	acre	5.94	1.0000	5.94	_____
SEED/PLANTS	acre	71.00	1.0000	71.00	_____
ADJUVANTS	acre	2.16	1.0000	2.16	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1051	0.96	_____
OPERATOR LABOR	hour	14.23	0.4149	5.89	_____
UNALLOCATED LABOR	hour	14.24	0.3734	5.32	_____
DIESEL FUEL	gal	2.60	4.4528	11.58	_____
REPAIR & MAINTENANCE	acre	10.06	1.0000	10.06	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____

TOTAL DIRECT EXPENSES				323.18	_____
RETURNS ABOVE DIRECT EXPENSES				76.72	_____
TOTAL FIXED EXPENSES				37.82	_____

TOTAL SPECIFIED EXPENSES				361.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				38.90	_____

Note: Cost of production estimates are based on 2018 input.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.C Estimated resource use for field operations, per acre
Soybeans, full-season, LL, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
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	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	12R-30	MFWD 190	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Soybean Seed LL	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Zidua	oz					1.5000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Aug		0.02	0.02	0.04	0.02
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.41	0.41	0.52	0.37

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.D Estimated costs for field operations, per acre
Soybeans, full-season, LL, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus (46% P2O5)	cwt	15.68						0.94	16.62	16.62
Potash (60% K2O)	cwt	20.00						1.20	21.20	21.20
Disk Harrow	24'		2.08	1.42	2.21			0.34	6.05	5.36
Field Cultivate Fld	24'		1.58	0.78	1.69			0.24	4.29	4.43
App by Air (5 gal)	appl	6.50						0.23	6.73	6.73
Glyphosate 3lbs a.e	oz	4.48						0.16	4.64	4.64
2,4-D Amine 4	pt	4.80						0.17	4.97	4.97
Plant - Folding	12R-30		1.60	1.95	2.27			0.17	5.99	5.79
Soybean Seed LL	lb	71.00						2.13	73.13	73.13
CruiserMaxx	oz	6.85						0.21	7.06	7.06
Boundary	pt	22.42						0.67	23.09	23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42	7.42
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Liberty 280	oz	17.11						0.43	17.54	17.54
Dual Magnum	pt	13.81						0.35	14.16	14.16
Soybeans Consultant	acre	6.50						0.16	6.66	6.66
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34
Liberty 280	oz	17.11						0.43	17.54	17.54
Zidua	oz	13.58						0.34	13.92	13.92
Spray (Broadcast)	60'		0.72	0.36	0.89			0.02	1.99	1.34
Acephate 90SP	lb	5.94						0.06	6.00	6.00
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
Gramoxone SL	oz	2.40						0.02	2.42	2.42
Surfactant	pt	0.72						0.01	0.73	0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00
Haul Soybeans	bu	11.61						0.06	11.67	11.67
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22
TOTALS		279.13	11.58	10.06	12.17	0.00	10.24	323.18	37.82	361.00

Note: Cost of production estimates are based on 2018 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. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.E Estimated monthly income and expense flows per acre
Soybeans, full-season, LL, April planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	399.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	35.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	9.28	29.62	61.61	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.72	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.90	0.00	0.00	0.00	0.00	0.00	2.27	1.78	0.00	0.00	0.89	3.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.66	0.00	0.00	0.00	0.00	0.00	1.60	1.44	0.00	0.00	0.72	4.16
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.00	0.00	0.00	1.95	0.72	0.00	0.00	0.36	4.83
INTEREST ON OP. CAP.	4.13	0.00	0.00	0.00	0.00	0.56	3.44	1.81	0.00	0.00	0.18	0.12
TOTAL DIRECT EXPENSES	73.05	0.00	0.00	0.00	0.00	16.34	118.17	73.86	0.00	0.00	17.71	24.05
NET INCOME	-73.05	0.00	0.00	0.00	0.00	-16.34	-118.17	-73.86	0.00	0.00	-17.71	375.85
NET INCOME TO DATE	-73.05	-73.05	-73.05	-73.05	-73.05	-89.39	-207.56	-281.42	-281.42	-281.42	-299.13	76.72

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, LL, April planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Soybeans	6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62		
PERCENT	YIELD	UNIT	-----dollars-----										
50	21.50	bu	-167	-157	-147	-137	-127	-117	-107	-97	-87	-77	-67
			-205	-195	-185	-175	-165	-155	-145	-135	-125	-115	-105
60	25.80	bu	-138	-126	-114	-102	-90	-78	-66	-54	-42	-30	-18
			-176	-164	-152	-140	-128	-116	-104	-92	-80	-68	-56
70	30.10	bu	-109	-95	-81	-67	-53	-39	-25	-11	2	16	30
			-147	-133	-119	-105	-91	-77	-63	-49	-35	-21	-7
80	34.40	bu	-80	-64	-48	-32	-16	-0	15	31	47	63	79
			-118	-102	-86	-70	-54	-38	-22	-6	9	25	41
90	38.70	bu	-52	-34	-16	1	19	37	55	73	91	109	127
			-89	-71	-53	-35	-17	0	18	36	54	72	90
100	43.00	bu	-23	-3	16	36	56	76	96	116	136	156	176
			-61	-41	-21	-1	18	38	58	78	98	118	138
110	47.30	bu	5	27	49	71	93	115	137	159	181	203	225
			-32	-10	11	33	55	77	99	121	143	165	187
120	51.60	bu	34	58	82	106	130	154	178	202	226	250	274
			-3	20	44	68	92	116	140	164	188	212	236
130	55.90	bu	63	89	115	141	167	193	219	245	271	297	323
			25	51	77	103	129	155	181	207	233	259	285
140	60.20	bu	92	120	148	176	204	232	260	287	315	343	371
			54	82	110	138	166	194	222	250	278	306	334
150	64.50	bu	120	150	180	210	240	270	300	330	360	390	420
			83	113	143	173	203	233	263	293	322	352	382

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 2018 input prices.

Table 16.A Estimated costs per acre
Soybeans, full-season, LL, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
HARVEST AIDS					
Gramoxone SL	oz	0.15	16.0000	2.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	0.6600	15.68	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Select Max	pt	12.71	1.0000	12.71	_____
Fierce	oz	7.54	3.5000	26.39	_____
Gramoxone SL 2.0	oz	0.15	96.0000	14.40	_____
Boundary	pt	11.21	2.0000	22.42	_____
Liberty 280	oz	0.59	58.0000	34.22	_____
Dual Magnum	pt	13.81	1.0000	13.81	_____
Zidua	oz	9.05	1.5000	13.58	_____
INSECTICIDES					
Dimilin 2L	oz	2.13	1.0000	2.13	_____
Baythroid XL	oz	2.65	1.0650	2.82	_____
SEED/PLANTS					
Soybean Seed LL	lb	1.42	50.0000	71.00	_____
ADJUVANTS					
Surfactant	pt	3.59	1.4500	5.21	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4365	6.20	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1382	1.25	_____
UNALLOCATED LABOR					
	hour	14.23	0.4848	6.90	_____
DIESEL FUEL					
Tractors	gal	2.60	4.3820	11.40	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.96	1.0000	5.96	_____
Tractors	acre	2.41	1.0000	2.41	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	9.65	1.0000	9.65	_____
TOTAL DIRECT EXPENSES				367.84	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	16.72	1.0000	16.72	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				45.32	_____
TOTAL SPECIFIED EXPENSES				413.16	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.B Summary of estimated costs and returns per acre
Soybeans, full-season, LL, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	9.30	40.0000	372.00	_____

TOTAL INCOME				372.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
HARVEST AIDS	acre	2.40	1.0000	2.40	_____
FERTILIZERS	acre	35.68	1.0000	35.68	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	142.01	1.0000	142.01	_____
INSECTICIDES	acre	4.95	1.0000	4.95	_____
SEED/PLANTS	acre	71.00	1.0000	71.00	_____
ADJUVANTS	acre	5.22	1.0000	5.22	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1382	1.25	_____
OPERATOR LABOR	hour	14.23	0.5387	7.65	_____
UNALLOCATED LABOR	hour	14.23	0.4848	6.90	_____
DIESEL FUEL	gal	2.60	5.7756	15.02	_____
REPAIR & MAINTENANCE	acre	11.98	1.0000	11.98	_____
INTEREST ON OP. CAP.	acre	9.65	1.0000	9.65	_____

TOTAL DIRECT EXPENSES				367.84	_____
RETURNS ABOVE DIRECT EXPENSES				4.16	_____
TOTAL FIXED EXPENSES				45.32	_____

TOTAL SPECIFIED EXPENSES				413.16	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-41.16	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.C Estimated resource use for field operations, per acre
 Soybeans, full-season, LL, May planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bed/Lister-Roll-Fold	12R-30	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Feb		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 190	0.067	1.00	May		0.06	0.06	0.13	0.06
Soybean Seed LL	lb					50.0000				
CruiserMaxx	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Zidua	oz					1.5000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Aug		0.01	0.01	0.02	0.01
Baythroid XL	oz					1.0650				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 190	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.53	0.53	0.67	0.48

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.D Estimated costs for field operations, per acre
Soybeans, full-season, LL, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.02	3.35		3.35
Lime (Spread)	ton	12.65						0.06	12.71		12.71
Disk Harrow	24'		2.08	1.42	2.21			0.03	5.74	5.36	11.10
Field Cultivate Fld	24'		1.58	0.78	1.69			0.02	4.07	4.43	8.50
Bed/Lister-Roll-Fold	12R-30		1.88	0.83	1.69			0.02	4.42	3.91	8.33
Spray (Broadcast)	60'		0.72	0.36	0.89			0.09	2.06	1.34	3.40
Glyphosate 3lbs a.e	oz	4.48						0.20	4.68		4.68
Select Max	pt	12.71						0.57	13.28		13.28
Surfactant	pt	1.44						0.06	1.50		1.50
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Phosphorus (46% P2O5)	cwt	15.68						0.55	16.23		16.23
Potash (60% K2O)	cwt	20.00						0.70	20.70		20.70
Spray (Broadcast)	60'		0.72	0.36	0.89			0.07	2.04	1.34	3.38
Fierce	oz	26.39						0.92	27.31		27.31
Gramoxone SL 2.0	oz	7.20						0.25	7.45		7.45
Surfactant	pt	1.44						0.05	1.49		1.49
Soybeans Consultant	acre	6.50						0.20	6.70		6.70
Plant & Pre-Folding	12R-30		1.72	2.32	2.44			0.19	6.67	6.70	13.37
Soybean Seed LL	lb	71.00						2.13	73.13		73.13
CruiserMaxx	oz	6.85						0.21	7.06		7.06
Boundary	pt	22.42						0.67	23.09		23.09
Gramoxone SL 2.0	oz	7.20						0.22	7.42		7.42
Surfactant	pt	1.44						0.04	1.48		1.48
Spray (Broadcast)	60'		0.72	0.36	0.89			0.06	2.03	1.34	3.37
Liberty 280	oz	17.11						0.51	17.62		17.62
Dual Magnum	pt	13.81						0.41	14.22		14.22
Spray (Broadcast)	60'		0.72	0.36	0.89			0.05	2.02	1.34	3.36
Liberty 280	oz	17.11						0.43	17.54		17.54
Zidua	oz	13.58						0.34	13.92		13.92
Spray (Broadcast)	60'		0.36	0.18	0.44			0.02	1.00	0.67	1.67
Dimilin 2L	oz	2.13						0.04	2.17		2.17
Surfactant	pt	0.18							0.18		0.18
Spray (Broadcast)	60'		0.36	0.18	0.44			0.01	0.99	0.67	1.66
Baythroid XL	oz	2.82						0.04	2.86		2.86
App by Air (5 gal)	appl	6.50						0.07	6.57		6.57
Gramoxone SL	oz	2.40						0.02	2.42		2.42
Surfactant	pt	0.72						0.01	0.73		0.73
Header -Soybean	25' Flex		3.62	4.50	2.76			0.05	10.93	17.00	27.93
Haul Soybeans	bu	10.80						0.05	10.85		10.85
Grain Cart Soybean	700 bu		0.54	0.33	0.57			0.01	1.45	1.22	2.67
TOTALS		315.39	15.02	11.98	15.80	0.00		9.65	367.84	45.32	413.16

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.E Estimated monthly income and expense flows per acre
Soybeans, full-season, LL, May planted, 12R 30"
Non-Delta Area, Mississippi, 2019

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	372.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	35.68	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	17.19	0.00	33.59	60.54	30.69	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	2.82	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.44	0.00	1.44	1.44	0.00	0.18	0.00	0.72	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.65
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.89	0.00	0.89	3.33	0.89	0.44	0.44	0.00	8.92
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	0.72	0.00	0.72	2.44	0.72	0.36	0.36	0.00	9.70
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.36	0.00	0.36	2.68	0.36	0.18	0.18	0.00	7.86
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.92	0.00	2.80	4.64	0.82	0.06	0.05	0.10	0.26
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	21.52	0.00	82.98	159.42	33.48	3.35	3.85	9.72	53.52
NET INCOME	0.00	0.00	0.00	-21.52	0.00	-82.98	-159.42	-33.48	-3.35	-3.85	-9.72	318.48
NET INCOME TO DATE	0.00	0.00	0.00	-21.52	-21.52	-104.50	-263.92	-297.40	-300.75	-304.60	-314.32	4.16

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, LL, May planted, 12R 30"
 Non-Delta Area, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			6.97	7.44	7.90	8.37	8.83	9.30	9.76	10.23	10.69	11.16	11.62
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-222 -268	-213 -258	-204 -249	-195 -240	-185 -231	-176 -221	-167 -212	-157 -203	-148 -193	-139 -184	-129 -175
60	24.00	bu	-196 -241	-184 -230	-173 -219	-162 -207	-151 -196	-140 -185	-129 -174	-117 -163	-106 -152	-95 -140	-84 -129
70	28.00	bu	-169 -214	-156 -201	-143 -188	-130 -175	-117 -162	-104 -149	-91 -136	-78 -123	-65 -110	-52 -97	-39 -84
80	32.00	bu	-142 -187	-127 -172	-112 -158	-97 -143	-82 -128	-68 -113	-53 -98	-38 -83	-23 -68	-8 -53	6 -38
90	36.00	bu	-115 -160	-98 -144	-82 -127	-65 -110	-48 -94	-31 -77	-15 -60	1 -43	18 -27	35 -10	51 6
100	40.00	bu	-88 -134	-70 -115	-51 -96	-33 -78	-14 -59	4 -41	22 -22	41 -3	59 14	78 33	97 51
110	44.00	bu	-62 -107	-41 -86	-21 -66	-0 -45	19 -25	40 -5	60 15	81 35	101 56	122 76	142 97
120	48.00	bu	-35 -80	-12 -58	9 -35	31 -13	54 8	76 31	98 53	121 75	143 98	165 120	187 142
130	52.00	bu	-8 -53	15 -29	39 -5	64 18	88 43	112 67	136 91	160 115	185 139	209 163	233 188
140	56.00	bu	18 -26	44 -0	70 25	96 51	122 77	148 103	174 129	200 155	226 181	252 207	278 233
150	60.00	bu	45 -0	73 27	101 55	128 83	156 111	184 139	212 167	240 195	268 223	296 251	324 278

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 2018 input prices.

Table 17.A Estimated costs per acre
Soybeans, double crop after wheat, LL, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	3.0000	19.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	23.75	0.8700	20.66	_____
Potash (60% K2O)	cwt	20.00	1.3300	26.60	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	1.6000	6.85	_____
HERBICIDES					
Boundary	pt	11.21	2.0000	22.42	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Liberty 280	oz	0.59	29.0000	17.11	_____
Dual Magnum	pt	13.81	1.0000	13.81	_____
INSECTICIDES					
Acephate 90SP	lb	7.92	0.7500	5.94	_____
Prevathon	oz	1.32	14.0000	18.48	_____
Bifenthrin	oz	0.76	6.4000	4.86	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed LL	lb	1.42	50.0000	71.00	_____
ADJUVANTS					
Surfactant	pt	3.59	0.5000	1.80	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.1171	1.66	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.0817	0.74	_____
UNALLOCATED LABOR					
	hour	14.26	0.1886	2.69	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3567	3.53	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	3.26	1.0000	3.26	_____
Tractors	acre	0.70	1.0000	0.70	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	8.94	1.0000	8.94	_____
TOTAL DIRECT EXPENSES				-----	312.71
FIXED EXPENSES					
Implements	acre	6.31	1.0000	6.31	_____
Tractors	acre	4.83	1.0000	4.83	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				-----	26.66
TOTAL SPECIFIED EXPENSES				-----	339.37

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, LL, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	5.37	65.0000	349.05	_____
Soybeans	bu	9.30	25.0000	232.50	_____

TOTAL INCOME				581.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.50	1.0000	19.50	_____
FERTILIZERS	acre	47.26	1.0000	47.26	_____
FUNGICIDES	acre	6.85	1.0000	6.85	_____
HERBICIDES	acre	60.54	1.0000	60.54	_____
INSECTICIDES	acre	37.28	1.0000	37.28	_____
SEED/PLANTS	acre	71.00	1.0000	71.00	_____
ADJUVANTS	acre	1.80	1.0000	1.80	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0817	0.74	_____
OPERATOR LABOR	hour	14.23	0.2193	3.11	_____
UNALLOCATED LABOR	hour	14.26	0.1886	2.69	_____
DIESEL FUEL	gal	2.60	2.7503	7.15	_____
REPAIR & MAINTENANCE	acre	7.57	1.0000	7.57	_____
INTEREST ON OP. CAP.	acre	8.94	1.0000	8.94	_____

TOTAL DIRECT EXPENSES				312.71	_____
RETURNS ABOVE DIRECT EXPENSES				268.84	_____
TOTAL FIXED EXPENSES				26.66	_____

TOTAL SPECIFIED EXPENSES				339.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				242.18	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	12R-30	MFWD 225	0.067	1.00	Jun		0.06	0.06	0.13	0.05
Soybean Seed LL	lb					50.0000				
CruiserMaxx	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Spray (Broadcast)	60'	MFWD 225	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Liberty 280	oz					29.0000				
Dual Magnum	pt					1.0000				
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				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 225	0.021	1.00	Oct		0.02	0.02	0.02	0.01

TOTALS							0.21	0.21	0.30	0.18

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, LL, 12R 30"
Non-irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	12.65						0.76	13.41	13.41
Custom Apply Fert	acre	7.50						0.45	7.95	7.95
Phosphorus(46% P2O5)	cwt	20.66						1.24	21.90	21.90
Potash (60% K2O)	cwt	26.60						1.60	28.20	28.20
Soybeans Consultant	acre	6.50						0.20	6.70	6.70
Plant & Pre-Folding	12R-30		2.04	2.35	2.40			0.17	6.96	6.93
Soybean Seed LL	lb	71.00						1.78	72.78	72.78
CruiserMaxx	oz	6.85						0.17	7.02	7.02
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	22.42						0.56	22.98	22.98
Gramoxone SL 2.0	oz	7.20						0.18	7.38	7.38
Surfactant	pt	1.44						0.04	1.48	1.48
Spray (Broadcast)	60'		0.85	0.38	0.88			0.04	2.15	1.43
Liberty 280	oz	17.11						0.34	17.45	17.45
Dual Magnum	pt	13.81						0.28	14.09	14.09
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Acephate 90SP	lb	5.94						0.09	6.03	6.03
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prevathon	oz	18.48						0.28	18.76	18.76
Surfactant	pt	0.36						0.01	0.37	0.37
Bifenthrin	oz	4.86						0.07	4.93	4.93
Incidental Pest										
App by Air (5 gal)	appl	6.50						0.07	6.57	6.57
IncidentalPestTrt \$8	acre	8.00						0.08	8.08	8.08
Header -Soybean	25' Flex		3.62	4.50	2.70			0.05	10.87	17.00
Haul Soybeans	bu	6.75						0.03	6.78	6.78
Grain Cart Soybean	700 bu		0.64	0.34	0.56			0.01	1.55	1.30
TOTALS		282.51	7.15	7.57	6.54	0.00	8.94	312.71	26.66	339.37

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second Fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.E Estimated monthly income and expense flows per acre
 Soybeans, double crop after wheat, 1L, 12R 30"
 Non-irrigated, All Areas, Mississippi, 2019

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	349.05	0.00	0.00	0.00	232.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	6.50	0.00
FERTILIZERS	47.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	30.92	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.28	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.36	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.88	0.00	0.00	3.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.85	0.00	0.00	4.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.38	0.00	0.00	4.84
INTEREST ON OP. CAP.	4.25	0.00	0.00	0.00	0.00	0.00	0.20	2.94	0.66	0.65	0.15	0.09
TOTAL DIRECT EXPENSES	74.99	0.00	0.00	0.00	0.00	0.00	6.70	120.19	33.69	43.29	14.65	19.20
NET INCOME	-74.99	0.00	0.00	0.00	0.00	0.00	-6.70	228.86	-33.69	-43.29	-14.65	213.30
NET INCOME TO DATE	-74.99	-74.99	-74.99	-74.99	-74.99	-74.99	-81.69	147.17	113.48	70.19	55.54	268.84

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre
 * Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, LL, 12R 30"
 Non-irrigated, All Areas, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Wheat	4.02	4.29	4.56	4.83	5.10	5.37	5.63	5.90	6.17	6.44	6.71		
PERCENT	YIELD	UNIT	dollars										
50	32.50	bu	54	62	71	80	88	97	106	115	123	132	141
			27	36	44	53	62	71	79	88	97	105	114
60	39.00	bu	79	90	100	110	121	131	142	152	163	173	184
			52	63	73	84	94	105	115	126	136	147	157
70	45.50	bu	105	117	129	141	153	166	178	190	202	215	227
			78	90	102	115	127	139	151	163	176	188	200
80	52.00	bu	130	144	158	172	186	200	214	228	242	256	270
			103	117	131	145	159	173	187	201	215	229	243
90	58.50	bu	156	171	187	203	218	234	250	266	281	297	313
			129	145	160	176	192	207	223	239	255	270	286
100	65.00	bu	181	199	216	233	251	268	286	303	321	338	356
			154	172	189	207	224	242	259	277	294	311	329
110	71.50	bu	207	226	245	264	283	303	322	341	360	379	399
			180	199	218	238	257	276	295	314	334	353	372
120	78.00	bu	232	253	274	295	316	337	358	379	400	421	442
			205	226	247	268	289	310	331	352	373	394	415
130	84.50	bu	258	280	303	326	348	371	394	416	439	462	484
			231	254	276	299	322	344	367	390	412	435	458
140	91.00	bu	283	308	332	356	381	405	430	454	479	503	527
			256	281	305	330	354	379	403	427	452	476	501
150	97.50	bu	309	335	361	387	413	439	466	492	518	544	570
			282	308	334	360	387	413	439	465	491	518	544

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 2018 input prices.

Table 18.A Estimated costs per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
App by Air (3 gal)	appl	5.00	1.2000	6.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	1.6300	38.71	_____
Potash (60% K2O)	cwt	20.00	1.2500	25.00	_____
UAN + Sulfur (28%)	gal	1.38	48.5856	67.05	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Clarity	pt	11.51	0.5000	5.76	_____
Select Max	pt	12.71	1.0000	12.71	_____
Atrazine 4L	pt	1.98	4.0000	7.92	_____
Halex GT	pt	7.80	3.6000	28.08	_____
INSECTICIDES					
Bifenthrin	oz	0.76	1.2804	0.97	_____
Intrepid 2F	oz	2.03	4.0000	8.12	_____
SEED/PLANTS					
Corn Seed RR2	thous	3.36	28.0000	94.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4823	6.85	_____
Harvesters	hour	14.23	0.1277	1.82	_____
Self-Propelled	hour	14.23	0.0176	0.25	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	14.26	0.5649	8.06	_____
DIESEL FUEL					
Tractors	gal	2.60	4.2208	10.98	_____
Harvesters	gal	2.60	1.7419	4.53	_____
Self-Propelled	gal	2.60	0.1586	0.41	_____
REPAIR & MAINTENANCE					
Implements	acre	8.85	1.0000	8.85	_____
Tractors	acre	2.22	1.0000	2.22	_____
Harvesters	acre	4.51	1.0000	4.51	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	15.14	1.0000	15.14	_____
TOTAL DIRECT EXPENSES				451.83	_____
FIXED EXPENSES					
Implements	acre	14.47	1.0000	14.47	_____
Tractors	acre	15.41	1.0000	15.41	_____
Harvesters	acre	19.41	1.0000	19.41	_____
Self-Propelled	acre	1.41	1.0000	1.41	_____
TOTAL FIXED EXPENSES				50.70	_____
TOTAL SPECIFIED EXPENSES				502.53	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.80	170.0000	646.00	_____

TOTAL INCOME				646.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	12.50	1.0000	12.50	_____
FERTILIZERS	acre	130.76	1.0000	130.76	_____
HERBICIDES	acre	58.95	1.0000	58.95	_____
INSECTICIDES	acre	9.09	1.0000	9.09	_____
SEED/PLANTS	acre	94.08	1.0000	94.08	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1530	1.39	_____
OPERATOR LABOR	hour	14.23	0.6277	8.92	_____
UNALLOCATED LABOR	hour	14.26	0.5649	8.06	_____
DIESEL FUEL	gal	2.60	6.1215	15.92	_____
REPAIR & MAINTENANCE	acre	15.78	1.0000	15.78	_____
INTEREST ON OP. CAP.	acre	15.14	1.0000	15.14	_____

TOTAL DIRECT EXPENSES				451.83	_____
RETURNS ABOVE DIRECT EXPENSES				194.17	_____
TOTAL FIXED EXPENSES				50.70	_____

TOTAL SPECIFIED EXPENSES				502.53	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				143.47	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus (46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
Disk Heavy	20'	MFWD 170	0.097	1.00	Oct		0.09	0.09	0.09	0.08
Bed/Disk w/roller	8R-30	MFWD 170	0.093	1.00	Oct		0.09	0.09	0.09	0.08
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant - Rigid	12R-30	MFWD 170	0.062	1.00	Mar		0.06	0.06	0.12	0.05
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					14.8018				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					33.7838				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2804				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 170	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.62	0.61	0.78	0.56

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	25.31						1.52	26.83		26.83
Spin Spreader	5 ton		0.96	0.48	1.52			0.18	3.14	1.99	5.13
Phosphorus(46% P2O5)	cwt	38.71						2.32	41.03		41.03
Potash (60% K2O)	cwt	25.00						1.50	26.50		26.50
Disk Heavy	20'		2.21	1.51	2.63			0.38	6.73	5.59	12.32
Bed/Disk w/roller	8R-30		2.13	1.05	2.53			0.34	6.05	4.81	10.86
App by Air (5 gal)	appl	6.50						0.26	6.76		6.76
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66		4.66
Clarity	pt	5.76						0.23	5.99		5.99
Select Max	pt	12.71						0.51	13.22		13.22
Plant - Rigid	12R-30		1.43	1.70	2.27			0.19	5.59	5.01	10.60
Corn Seed RR2	thous	94.08						3.29	97.37		97.37
Custom Apply Fert	acre	7.50						0.22	7.72		7.72
UAN + Sulfur (28%)	gal	20.43						0.61	21.04		21.04
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.56			0.04	1.21	1.41	2.62
Atrazine 4L	pt	7.92						0.24	8.16		8.16
Halex GT	pt	28.08						0.84	28.92		28.92
Fert Appl (Liquid)	12R-30		1.79	1.54	2.49			0.15	5.97	3.98	9.95
UAN + Sulfur (28%)	gal	46.62						1.17	47.79		47.79
Corn Consultant	acre	6.00						0.15	6.15		6.15
App by Air (3 gal)	appl	1.00						0.03	1.03		1.03
Bifenthrin	oz	0.97						0.02	0.99		0.99
App by Air (3 gal)	appl	5.00						0.10	5.10		5.10
Intrepid 2F	oz	8.12						0.16	8.28		8.28
Header - Corn	8R-30		4.53	6.50	3.46			0.07	14.56	22.71	37.27
Grain Cart Corn	500 bu		0.58	0.30	0.68			0.01	1.57	1.15	2.72
Haul Corn	bu	39.10						0.20	39.30		39.30
Stalk Shredder Flex	20'		1.88	2.50	2.23			0.03	6.64	4.05	10.69
TOTALS		386.62	15.92	15.78	18.37	0.00	15.14	451.83	50.70	502.53	

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

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	646.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	1.00	5.00	0.00	0.00	0.00
FERTILIZERS	63.71	0.00	0.00	0.00	0.00	0.00	20.43	46.62	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.95	0.00	36.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	8.12	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	94.08	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.68	0.00	0.00	0.00	0.00	2.27	0.56	2.49	0.00	0.00	0.00	6.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.30	0.00	0.00	0.00	0.00	1.43	0.41	1.79	0.00	0.00	0.00	6.99
REPAIR & MAINTENANCE	3.04	0.00	0.00	0.00	0.00	1.70	0.20	1.54	0.00	0.00	0.00	9.30
INTEREST ON OP. CAP.	6.44	0.00	0.00	0.00	1.18	3.48	1.95	1.52	0.26	0.00	0.00	0.31
TOTAL DIRECT EXPENSES	113.81	0.00	0.00	0.00	30.63	102.96	67.05	61.93	13.38	0.00	0.00	62.07
NET INCOME	-113.81	0.00	0.00	0.00	-30.63	-102.96	-67.05	-61.93	-13.38	0.00	0.00	583.93
NET INCOME TO DATE	-113.81	-113.81	-113.81	-113.81	-144.44	-247.40	-314.45	-376.38	-389.76	-389.76	-389.76	194.17

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.85	3.04	3.23	3.42	3.61	3.80	3.99	4.18	4.37	4.56	4.75		
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-189 -240	-173 -224	-157 -208	-141 -192	-125 -176	-109 -159	-93 -143	-76 -127	-60 -111	-44 -95	-28 -79
60	102.00	bu	-145 -196	-126 -176	-106 -157	-87 -137	-67 -118	-48 -99	-29 -79	-9 -60	9 -41	29 -21	48 -2
70	119.00	bu	-100 -151	-78 -128	-55 -106	-33 -83	-10 -61	12 -38	34 -15	57 6	79 29	102 51	125 74
80	136.00	bu	-56 -107	-30 -81	-4 -55	21 -29	46 -3	72 22	98 47	124 73	150 99	176 125	202 151
90	153.00	bu	-11 -62	17 -33	46 -4	75 24	104 53	133 82	162 111	191 140	220 170	249 199	278 228
100	170.00	bu	32 -18	64 14	97 46	129 78	161 111	194 143	226 175	258 208	291 240	323 272	355 304
110	187.00	bu	77 26	112 62	148 97	183 133	219 168	254 204	290 239	325 275	361 310	396 346	432 381
120	204.00	bu	121 71	160 109	199 148	237 187	276 226	315 264	354 303	393 342	431 381	470 419	509 458
130	221.00	bu	166 115	208 157	250 199	292 241	334 283	376 325	418 367	460 409	502 451	544 493	586 535
140	238.00	bu	210 160	255 205	301 250	346 295	391 340	436 386	482 431	527 476	572 521	617 567	662 612
150	255.00	bu	255 204	303 253	352 301	400 349	449 398	497 446	545 495	594 543	642 592	691 640	739 689

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 2018 input prices.

Table 19.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	1.6300	38.71	_____
Potash (60% K2O)	cwt	20.00	1.2500	25.00	_____
Fert 10-34-0	gal	2.59	5.0000	12.95	_____
UAN (32%)	gal	1.24	45.2080	56.06	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
Clarity	pt	11.51	0.5000	5.76	_____
Select Max	pt	12.71	1.0000	12.71	_____
Atrazine 4L	pt	1.98	4.0000	7.92	_____
Halex GT	pt	7.80	3.6000	28.08	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.63	28.0000	101.64	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.4165	5.93	_____
Harvesters	hour	14.23	0.1277	1.82	_____
HAND LABOR					
Implements	hour	9.06	0.2283	2.06	_____
UNALLOCATED LABOR	hour	14.22	0.4898	6.97	_____
DIESEL FUEL					
Tractors	gal	2.60	3.6449	9.49	_____
Harvesters	gal	2.60	1.7419	4.53	_____
REPAIR & MAINTENANCE					
Implements	acre	8.01	1.0000	8.01	_____
Tractors	acre	1.92	1.0000	1.92	_____
Harvesters	acre	4.51	1.0000	4.51	_____
INTEREST ON OP. CAP.	acre	13.10	1.0000	13.10	_____
TOTAL DIRECT EXPENSES				431.89	_____
FIXED EXPENSES					
Implements	acre	11.84	1.0000	11.84	_____
Tractors	acre	13.31	1.0000	13.31	_____
Harvesters	acre	19.41	1.0000	19.41	_____
TOTAL FIXED EXPENSES				44.56	_____
TOTAL SPECIFIED EXPENSES				476.45	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 19.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	3.80	170.0000	646.00	_____

TOTAL INCOME				646.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
FERTILIZERS	acre	132.72	1.0000	132.72	_____
HERBICIDES	acre	58.95	1.0000	58.95	_____
SEED/PLANTS	acre	101.64	1.0000	101.64	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2283	2.06	_____
OPERATOR LABOR	hour	14.23	0.5442	7.75	_____
UNALLOCATED LABOR	hour	14.22	0.4898	6.97	_____
DIESEL FUEL	gal	2.60	5.3869	14.02	_____
REPAIR & MAINTENANCE	acre	14.44	1.0000	14.44	_____
INTEREST ON OP. CAP.	acre	13.10	1.0000	13.10	_____

TOTAL DIRECT EXPENSES				431.89	_____
RETURNS ABOVE DIRECT EXPENSES				214.11	_____
TOTAL FIXED EXPENSES				44.56	_____

TOTAL SPECIFIED EXPENSES				476.45	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				169.55	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Mar		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
NT Plant&Pre-Rigid	8R-30	MFWD 170	0.105	1.00	Mar		0.10	0.10	0.21	0.09
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	gal					5.0000				
Spray (Broadcast)	27'	MFWD 170	0.062	1.00	Apr		0.06	0.06	0.09	0.05
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	8R-30	MFWD 170	0.098	1.00	Apr		0.09	0.09	0.14	0.08
UAN (32%)	gal					45.2080				
Corn Consultant	acre			1.00	May	1.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 170	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.54	0.54	0.77	0.48

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.20	3.53	3.53
Lime (Spread)	ton	25.31						1.52	26.83	26.83
App by Air (5 gal)	appl	6.50						0.26	6.76	6.76
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66	4.66
Clarity	pt	5.76						0.23	5.99	5.99
Select Max	pt	12.71						0.51	13.22	13.22
Spin Spreader	5 ton		0.96	0.48	1.52			0.10	3.06	1.99 5.05
Phosphorus(46% P2O5)	cwt	38.71						1.35	40.06	40.06
Potash (60% K2O)	cwt	25.00						0.88	25.88	25.88
NT Plant&Pre-Rigid	8R-30		2.41	2.60	3.82			0.31	9.14	7.86 17.00
Corn Seed BtRR	thous	101.64						3.56	105.20	105.20
Fert 10-34-0	gal	12.95						0.45	13.40	13.40
Spray (Broadcast)	27'		1.43	0.50	1.97			0.12	4.02	2.28 6.30
Atrazine 4L	pt	7.92						0.24	8.16	8.16
Halex GT	pt	28.08						0.84	28.92	28.92
Fert Appl (Liquid)	8R-30		2.23	1.56	3.10			0.21	7.10	4.52 11.62
UAN (32%)	gal	56.06						1.68	57.74	57.74
Corn Consultant	acre	6.00						0.15	6.15	6.15
Header - Corn	8R-30		4.53	6.50	3.46			0.07	14.56	22.71 37.27
Grain Cart Corn	500 bu		0.58	0.30	0.68			0.01	1.57	1.15 2.72
Haul Corn	bu	39.10						0.20	39.30	39.30
Stalk Shredder Flex	20'		1.88	2.50	2.23			0.03	6.64	4.05 10.69
TOTALS		373.55	14.02	14.44	16.78	0.00	13.10	431.89	44.56	476.45

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

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	646.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	76.66	56.06	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.95	0.00	36.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	101.64	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	5.34	5.07	0.00	0.00	0.00	0.00	6.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	3.37	3.66	0.00	0.00	0.00	0.00	6.99
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	3.08	2.06	0.00	0.00	0.00	0.00	9.30
INTEREST ON OP. CAP.	1.72	0.00	0.00	0.00	1.18	6.65	3.09	0.15	0.00	0.00	0.00	0.31
TOTAL DIRECT EXPENSES	30.36	0.00	0.00	0.00	30.63	196.74	105.94	6.15	0.00	0.00	0.00	62.07
NET INCOME	-30.36	0.00	0.00	0.00	-30.63	-196.74	-105.94	-6.15	0.00	0.00	0.00	583.93
NET INCOME TO DATE	-30.36	-30.36	-30.36	-30.36	-60.99	-257.73	-363.67	-369.82	-369.82	-369.82	-369.82	214.11

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	2.85	3.04	3.23	3.42	3.61	3.80	3.99	4.18	4.37	4.56	4.75		
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-169 -214	-153 -198	-137 -182	-121 -166	-105 -149	-89 -133	-73 -117	-56 -101	-40 -85	-24 -69	-8 -53
60	102.00	bu	-125 -170	-106 -150	-86 -131	-67 -111	-47 -92	-28 -73	-9 -53	10 -34	29 -14	48 4	68 23
70	119.00	bu	-80 -125	-58 -102	-35 -80	-13 -57	9 -35	32 -12	54 10	77 32	99 55	122 77	145 100
80	136.00	bu	-36 -80	-10 -55	15 -29	41 -3	66 22	92 48	118 74	144 99	170 125	196 151	221 177
90	153.00	bu	8 -36	37 -7	66 21	95 50	124 79	153 108	182 137	211 167	240 196	269 225	298 254
100	170.00	bu	52 8	84 40	117 72	149 104	181 137	214 169	246 201	278 234	311 266	343 298	375 331
110	187.00	bu	97 52	132 88	168 123	203 159	239 194	274 230	310 265	345 301	381 336	416 372	452 407
120	204.00	bu	141 97	180 135	219 174	257 213	296 252	335 290	374 329	412 368	451 407	490 445	529 484
130	221.00	bu	186 141	228 183	270 225	312 267	354 309	396 351	438 393	480 435	522 477	564 519	606 561
140	238.00	bu	230 186	275 231	321 276	366 321	411 367	456 412	502 457	547 502	592 547	637 593	682 638
150	255.00	bu	275 230	323 279	372 327	420 376	469 424	517 472	565 521	614 569	662 618	711 666	759 715

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 2018 input prices.

Table 20.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	1.0000	6.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	1.3000	30.88	_____
Potash (60% K2O)	cwt	20.00	1.0000	20.00	_____
UAN + Sulfur (28%)	gal	1.38	38.2883	52.84	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.14	32.0000	4.48	_____
2,4-D Amine 4	pt	2.40	2.0000	4.80	_____
Select Max	pt	12.71	1.0000	12.71	_____
Lexar	pt	8.01	6.0000	48.06	_____
INSECTICIDES					
Sivanto Prime	oz	2.52	8.0000	20.16	_____
Karate Z	oz	2.74	1.5000	4.11	_____
Prevathon	oz	1.32	14.0000	18.48	_____
SEED/PLANTS					
Sorghum Concept+ Po	lb	3.96	4.5000	17.82	_____
ADJUVANTS					
Surfactant	pt	3.59	0.3000	1.08	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Sorghum Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.3120	4.43	_____
Harvesters	hour	14.23	0.1021	1.45	_____
Self-Propelled	hour	14.23	0.0661	0.95	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0330	0.30	_____
UNALLOCATED LABOR					
	hour	14.27	0.4322	6.17	_____
DIESEL FUEL					
Tractors	gal	2.60	2.7303	7.10	_____
Harvesters	gal	2.60	1.3935	3.62	_____
Self-Propelled	gal	2.60	0.8505	2.20	_____
REPAIR & MAINTENANCE					
Implements	acre	5.10	1.0000	5.10	_____
Tractors	acre	1.44	1.0000	1.44	_____
Harvesters	acre	3.61	1.0000	3.61	_____
Self-Propelled	acre	0.90	1.0000	0.90	_____
INTEREST ON OP. CAP.	acre	9.65	1.0000	9.65	_____
TOTAL DIRECT EXPENSES				349.79	_____
FIXED EXPENSES					
Implements	acre	11.06	1.0000	11.06	_____
Tractors	acre	9.96	1.0000	9.96	_____
Harvesters	acre	15.52	1.0000	15.52	_____
Self-Propelled	acre	6.50	1.0000	6.50	_____
TOTAL FIXED EXPENSES				43.04	_____
TOTAL SPECIFIED EXPENSES				392.83	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 20.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	3.61	100.0000	361.00	_____

TOTAL INCOME				361.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.50	1.0000	6.50	_____
FERTILIZERS	acre	103.72	1.0000	103.72	_____
HERBICIDES	acre	70.05	1.0000	70.05	_____
INSECTICIDES	acre	42.75	1.0000	42.75	_____
SEED/PLANTS	acre	17.82	1.0000	17.82	_____
ADJUVANTS	acre	1.08	1.0000	1.08	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1772	1.61	_____
OPERATOR LABOR	hour	14.23	0.4803	6.83	_____
UNALLOCATED LABOR	hour	14.27	0.4322	6.17	_____
DIESEL FUEL	gal	2.60	4.9745	12.92	_____
REPAIR & MAINTENANCE	acre	11.05	1.0000	11.05	_____
INTEREST ON OP. CAP.	acre	9.65	1.0000	9.65	_____

TOTAL DIRECT EXPENSES				349.79	_____
RETURNS ABOVE DIRECT EXPENSES				11.21	_____
TOTAL FIXED EXPENSES				43.04	_____

TOTAL SPECIFIED EXPENSES				392.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-31.83	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 20.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Disk Harrow	24'	MFWD 170	0.081	1.00	Nov		0.08	0.08	0.08	0.07
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Apr		0.04	0.04	0.08	0.03
Phosphorus(46% P2O5)	cwt					1.3000				
Potash (60% K2O)	cwt					1.0000				
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Folding	12R-30	MFWD 170	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Sorghum Concept+ Po	lb					4.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Apr			0.01	0.01	0.01
Lexar	pt					6.0000				
Sorghum Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					38.2883				
Sprayer 800gal	80' 250hp		0.013	1.00	Jun			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Karate Z	oz					1.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Prevathon	oz					14.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum	bu					100.0000				
TOTALS							0.48	0.41	0.65	0.43

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 20.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.20	3.53		3.53
Lime (Spread)	ton	25.31						1.52	26.83		26.83
Disk Harrow	24'		1.86	1.35	2.21			0.30	5.72	4.88	10.60
App by Air (5 gal)	appl	6.50						0.26	6.76		6.76
Glyphosate 3lbs a.e	oz	4.48						0.18	4.66		4.66
2,4-D Amine 4	pt	4.80						0.19	4.99		4.99
Select Max	pt	12.71						0.51	13.22		13.22
Surfactant	pt	1.08						0.04	1.12		1.12
Spin Spreader	5 ton		0.96	0.48	1.52			0.09	3.05	1.99	5.04
Phosphorus(46% P2O5)	cwt	30.88						0.93	31.81		31.81
Potash (60% K2O)	cwt	20.00						0.60	20.60		20.60
Field Cultivate Fld	32'		1.06	0.73	1.26			0.09	3.14	3.85	6.99
Plant - Folding	12R-30		1.43	1.90	2.27			0.17	5.77	5.43	11.20
Sorghum Concept+ Po	lb	17.82						0.53	18.35		18.35
Sprayer 800gal	80' 250hp		0.44	0.18	0.42			0.03	1.07	1.30	2.37
Lexar	pt	48.06						1.44	49.50		49.50
Sorghum Consultant	acre	6.00						0.15	6.15		6.15
Fert Appl (Liquid)	12R-30		1.79	1.54	2.49			0.15	5.97	3.98	9.95
UAN + Sulfur (28%)	gal	52.84						1.32	54.16		54.16
Sprayer 800gal	80' 250hp		0.44	0.18	0.42			0.02	1.06	1.30	2.36
Sivanto Prime	oz	10.08						0.20	10.28		10.28
Sprayer 800gal	80' 250hp		0.44	0.18	0.42			0.02	1.06	1.30	2.36
Karate Z	oz	4.11						0.06	4.17		4.17
Sprayer 800gal	80' 250hp		0.44	0.18	0.42			0.02	1.06	1.30	2.36
Prevathon	oz	18.48						0.28	18.76		18.76
Sprayer 800gal	80' 250hp		0.44	0.18	0.42			0.02	1.06	1.30	2.36
Sivanto Prime	oz	10.08						0.15	10.23		10.23
Header Wheat/Sorghum	25' Rigid		3.62	4.15	2.76			0.05	10.58	16.41	26.99
Haul Sorghum	bu	25.00						0.13	25.13		25.13
TOTALS		301.56	12.92	11.05	14.61	0.00	9.65	349.79	43.04	392.83	

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 20.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

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	361.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	50.88	52.84	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	21.99	0.00	48.06	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.08	32.67	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	17.82	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
CUSTOM LIME	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	2.21	0.00	0.00	0.00	0.00	5.47	2.49	0.42	1.26	0.00	2.76
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	1.86	0.00	0.00	0.00	0.00	3.89	1.79	0.44	1.32	0.00	3.62
REPAIR & MAINTENANCE	0.00	1.35	0.00	0.00	0.00	0.00	3.29	1.54	0.18	0.54	0.00	4.15
INTEREST ON OP. CAP.	1.72	0.30	0.00	0.00	1.18	0.00	3.88	1.62	0.22	0.55	0.00	0.18
TOTAL DIRECT EXPENSES	30.36	5.72	0.00	0.00	30.75	0.00	133.29	66.28	11.34	36.34	0.00	35.71
NET INCOME	-30.36	-5.72	0.00	0.00	-30.75	0.00	-133.29	-66.28	-11.34	-36.34	0.00	325.29
NET INCOME TO DATE	-30.36	-36.08	-36.08	-36.08	-66.83	-66.83	-200.12	-266.40	-277.74	-314.08	-314.08	11.21

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2019

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Grain Sorghum	2.70	2.88	3.06	3.24	3.42	3.61	3.79	3.97	4.15	4.33	4.51		
PERCENT	YIELD	UNIT	dollars										
50	50.00	bu	-201 -244	-192 -235	-183 -226	-174 -217	-165 -208	-156 -199	-147 -190	-138 -181	-129 -172	-120 -163	-111 -154
60	60.00	bu	-177 -220	-166 -209	-155 -198	-144 -187	-133 -177	-123 -166	-112 -155	-101 -144	-90 -133	-79 -122	-68 -112
70	70.00	bu	-152 -195	-140 -183	-127 -170	-114 -157	-102 -145	-89 -132	-76 -119	-64 -107	-51 -94	-39 -82	-26 -69
80	80.00	bu	-128 -171	-113 -156	-99 -142	-84 -127	-70 -113	-55 -99	-41 -84	-27 -70	-12 -55	1 -41	16 -26
90	90.00	bu	-103 -146	-87 -130	-71 -114	-54 -97	-38 -81	-22 -65	-6 -49	10 -32	26 -16	42 -0	58 15
100	100.00	bu	-79 -122	-60 -104	-42 -85	-24 -67	-6 -49	11 -31	29 -13	47 4	65 22	83 40	101 58
110	110.00	bu	-54 -97	-34 -77	-14 -57	5 -37	24 -18	44 1	64 21	84 41	104 61	124 81	144 101
120	120.00	bu	-29 -72	-8 -51	13 -29	35 -7	56 13	78 35	100 57	121 78	143 100	165 121	186 143
130	130.00	bu	-5 -48	18 -24	41 -1	65 22	88 45	111 68	135 92	158 115	182 139	205 162	229 186
140	140.00	bu	19 -23	44 1	69 26	95 51	120 77	145 102	170 127	196 153	221 178	246 203	271 228
150	150.00	bu	43 0	70 27	97 54	124 81	152 109	179 136	206 163	233 190	260 217	287 244	314 271

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 2018 input prices.

Table 21.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.50	2.0000	13.00	_____
App by Air (3 gal)	appl	5.00	1.0000	5.00	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	23.75	1.0000	23.75	_____
Potash (60% K2O)	cwt	20.00	0.7500	15.00	_____
Fert 41-0-0-4	cwt	14.25	3.0480	43.43	_____
FUNGICIDES					
CruiserMaxx	oz	4.28	4.5000	19.26	_____
Prosaro	oz	2.56	8.0000	20.48	_____
HERBICIDES					
Axiom	oz	1.92	10.0000	19.20	_____
Harmony Extra SG	oz	13.79	0.7500	10.34	_____
Axial XL	oz	1.18	16.4000	19.35	_____
INSECTICIDES					
Karate Z	oz	2.74	1.5000	4.11	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.22	90.0000	19.80	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	7.00	3.0480	21.34	_____
HAULING					
Haul Wheat	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.6660	25.31	_____
CROP CONSULTANT					
Wheat Consultant	acre	5.50	1.0000	5.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	0.2648	3.76	_____
Harvesters	hour	14.23	0.1021	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR					
	hour	14.20	0.2936	4.17	_____
DIESEL FUEL					
Tractors	gal	2.60	2.3178	6.03	_____
Harvesters	gal	2.60	1.3935	3.62	_____
REPAIR & MAINTENANCE					
Implements	acre	3.68	1.0000	3.68	_____
Tractors	acre	1.23	1.0000	1.23	_____
Harvesters	acre	3.61	1.0000	3.61	_____
INTEREST ON OP. CAP.	acre	10.27	1.0000	10.27	_____
TOTAL DIRECT EXPENSES				325.46	_____
FIXED EXPENSES					
Implements	acre	9.09	1.0000	9.09	_____
Tractors	acre	8.45	1.0000	8.45	_____
Harvesters	acre	15.52	1.0000	15.52	_____
TOTAL FIXED EXPENSES				33.06	_____
TOTAL SPECIFIED EXPENSES				358.52	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 21.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	5.37	70.0000	375.90	_____

TOTAL INCOME				375.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	82.19	1.0000	82.19	_____
FUNGICIDES	acre	39.74	1.0000	39.74	_____
HERBICIDES	acre	48.89	1.0000	48.89	_____
INSECTICIDES	acre	4.11	1.0000	4.11	_____
SEED/PLANTS	acre	19.80	1.0000	19.80	_____
CUSTOM FERTILIZE	acre	21.34	1.0000	21.34	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	25.31	1.0000	25.31	_____
CROP CONSULTANT	acre	5.50	1.0000	5.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	14.23	0.3670	5.21	_____
UNALLOCATED LABOR	hour	14.20	0.2936	4.17	_____
DIESEL FUEL	gal	2.60	3.7114	9.65	_____
REPAIR & MAINTENANCE	acre	8.52	1.0000	8.52	_____
INTEREST ON OP. CAP.	acre	10.27	1.0000	10.27	_____

TOTAL DIRECT EXPENSES				325.46	_____
RETURNS ABOVE DIRECT EXPENSES				50.44	_____
TOTAL FIXED EXPENSES				33.06	_____

TOTAL SPECIFIED EXPENSES				358.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				17.38	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 21.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----			
Soil Test	acre			0.33	Sep	0.3330			
Lime (Spread)	ton			0.33	Sep	0.6660			
Disk Harrow	24'	MFWD 170	0.081	1.00	Sep		0.08	0.08	0.06
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Sep		0.04	0.04	0.03
Phosphorus (46% P2O5)	cwt					1.0000			
Potash (60% K2O)	cwt					0.7500			
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Sep		0.04	0.04	0.03
Grain Drill	20'	MFWD 170	0.094	1.00	Oct		0.09	0.09	0.18
Wheat Seed Private	lb					90.0000			
CruiserMaxx	oz					4.5000			
Wheat Consultant	acre			1.00	Oct	1.0000			
App by Air (5 gal)	appl			1.00	Nov	1.0000			
Axiom	oz					10.0000			
App by Air (3 gal)	appl			1.00	Feb	1.0000			
Karate Z	oz					1.5000			
Harmony Extra SG	oz					0.7500			
Axial XL	oz					16.4000			
App Fert by Air	cwt			1.00	Feb	1.5240			
Fert 41-0-0-4	cwt					1.5240			
App Fert by Air	cwt			1.00	Mar	1.5240			
Fert 41-0-0-4	cwt					1.5240			
App by Air (5 gal)	appl			1.00	Apr	1.0000			
Prosaro	oz					8.0000			
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.08
Haul Wheat	bu					70.0000			
TOTALS							0.36	0.36	0.50

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 21.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.17	3.50	3.50
Lime (Spread)	ton	25.31						1.27	26.58	26.58
Disk Harrow	24'		1.86	1.35	2.09			0.27	5.57	4.88 10.45
Spin Spreader	5 ton		0.96	0.48	1.46			0.14	3.04	1.99 5.03
Phosphorus(46% P2O5)	cwt	23.75						1.19	24.94	24.94
Potash (60% K2O)	cwt	15.00						0.75	15.75	15.75
Field Cultivate Fld	32'		1.06	0.73	1.19			0.15	3.13	3.85 6.98
Grain Drill	20'		2.15	1.81	3.26			0.32	7.54	5.93 13.47
Wheat Seed Private	lb	19.80						0.89	20.69	20.69
CruiserMaxx	oz	19.26						0.87	20.13	20.13
Wheat Consultant	acre	5.50						0.25	5.75	5.75
App by Air (5 gal)	appl	6.50						0.26	6.76	6.76
Axiom	oz	19.20						0.77	19.97	19.97
App by Air (3 gal)	appl	5.00						0.13	5.13	5.13
Karate Z	oz	4.11						0.10	4.21	4.21
Harmony Extra SG	oz	10.34						0.26	10.60	10.60
Axial XL	oz	19.35						0.48	19.83	19.83
App Fert by Air	cwt	10.67						0.27	10.94	10.94
Fert 41-0-0-4	cwt	21.72						0.54	22.26	22.26
App Fert by Air	cwt	10.67						0.21	10.88	10.88
Fert 41-0-0-4	cwt	21.72						0.43	22.15	22.15
App by Air (5 gal)	appl	6.50						0.10	6.60	6.60
Prosaro	oz	20.48						0.31	20.79	20.79
Header Wheat/Sorghum	25' Rigid		3.62	4.15	2.61			0.05	10.43	16.41 26.84
Haul Wheat	bu	18.20						0.09	18.29	18.29
TOTALS		286.41	9.65	8.52	10.61	0.00	10.27	325.46	33.06	358.52

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 21.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2019

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	375.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	0.00	6.50	0.00	0.00
FERTILIZERS	0.00	0.00	38.75	0.00	0.00	0.00	0.00	21.72	21.72	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	19.26	0.00	0.00	0.00	0.00	0.00	20.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	19.20	0.00	0.00	29.69	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.11	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.67	10.67	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	25.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	4.74	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.61
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	3.88	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.62
REPAIR & MAINTENANCE	0.00	0.00	2.56	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15
INTEREST ON OP. CAP.	0.00	0.00	3.94	2.33	1.03	0.00	0.00	1.78	0.64	0.41	0.00	0.14
TOTAL DIRECT EXPENSES	0.00	0.00	82.51	54.11	26.73	0.00	0.00	72.97	33.03	27.39	0.00	28.72
NET INCOME	0.00	0.00	-82.51	-54.11	-26.73	0.00	0.00	-72.97	-33.03	-27.39	0.00	347.18
NET INCOME TO DATE	0.00	0.00	-82.51	-136.62	-163.35	-163.35	-163.35	-236.32	-269.35	-296.74	-296.74	50.44

Note: Cost of production estimates are based on 2018 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 21.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Wheat			4.02	4.29	4.56	4.83	5.10	5.37	5.63	5.90	6.17	6.44	6.71
			PRODUCT PRICE										
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-175 -208	-165 -199	-156 -189	-147 -180	-137 -170	-128 -161	-118 -152	-109 -142	-100 -133	-90 -123	-81 -114
60	42.00	bu	-148 -182	-137 -170	-126 -159	-115 -148	-103 -136	-92 -125	-81 -114	-70 -103	-58 -91	-47 -80	-36 -69
70	49.00	bu	-122 -155	-109 -142	-96 -129	-83 -116	-70 -103	-56 -89	-43 -76	-30 -63	-17 -50	-4 -37	8 -24
80	56.00	bu	-96 -129	-81 -114	-66 -99	-51 -84	-36 -69	-21 -54	-6 -39	8 -24	24 -9	39 6	54 21
90	63.00	bu	-69 -102	-52 -86	-36 -69	-19 -52	-2 -35	14 -18	31 -1	48 15	65 32	82 49	99 66
100	70.00	bu	-43 -76	-24 -57	-5 -39	12 -20	31 -1	50 17	69 36	88 54	106 73	125 92	144 111
110	77.00	bu	-17 -50	3 -29	24 -8	44 11	65 32	86 53	106 73	127 94	148 115	168 135	189 156
120	84.00	bu	9 -23	31 -1	54 21	76 43	99 66	121 88	144 111	167 134	189 156	212 179	234 201
130	91.00	bu	35 2	59 26	84 51	108 75	133 100	157 124	182 149	206 173	231 197	255 222	279 246
140	98.00	bu	61 28	88 55	114 81	140 107	167 134	193 160	219 186	246 213	272 239	298 265	325 291
150	105.00	bu	88 55	116 83	144 111	172 139	201 167	229 196	257 224	285 252	313 280	342 308	370 337

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 2018 input prices..

Table 22.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Bravo Weather Stick	pt	6.88	5.5000	37.84	_____
Aframe	oz	1.91	36.0000	68.76	_____
Tebuconazole 3.6	oz	0.71	7.2000	5.11	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.16	4.0000	8.64	_____
Dual II Magnum	pt	14.83	1.0000	14.83	_____
Valor SX	oz	4.57	3.0000	13.71	_____
Storm	pt	11.41	1.5000	17.12	_____
Cadre	oz	3.54	4.0000	14.16	_____
Butyrac 200 (2,4-DB)	pt	4.34	2.0000	8.68	_____
Select Max	pt	12.71	1.0000	12.71	_____
INSECTICIDES					
Admire Pro	oz	1.80	9.0000	16.20	_____
Acephate 90%	lb	8.70	0.1375	1.20	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	125.0000	105.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.58	6.0000	15.48	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
INOCULANT					
Optimize LIFT	oz	0.55	14.8000	8.14	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	1.6246	23.12	_____
Self-Propelled	hour	14.23	0.1983	2.81	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0991	0.90	_____
UNALLOCATED LABOR					
	hour	14.22	1.4583	20.74	_____
DIESEL FUEL					
Tractors	gal	2.60	17.5722	45.69	_____
Self-Propelled	gal	2.60	1.7850	4.61	_____
REPAIR & MAINTENANCE					
Implements	acre	11.62	1.0000	11.62	_____
Tractors	acre	9.36	1.0000	9.36	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	8.67	1.0000	8.67	_____
TOTAL DIRECT EXPENSES				547.88	_____
FIXED EXPENSES					
Implements	acre	45.28	1.0000	45.28	_____
Tractors	acre	64.59	1.0000	64.59	_____
Self-Propelled	acre	15.86	1.0000	15.86	_____
TOTAL FIXED EXPENSES				125.73	_____
TOTAL SPECIFIED EXPENSES				673.61	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	385.00	1.8000	693.00	_____

TOTAL INCOME				693.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	111.71	1.0000	111.71	_____
HERBICIDES	acre	89.85	1.0000	89.85	_____
INSECTICIDES	acre	17.40	1.0000	17.40	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
ADJUVANTS	acre	15.48	1.0000	15.48	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
INOCULANT	acre	8.14	1.0000	8.14	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2199	1.99	_____
OPERATOR LABOR	hour	14.23	1.8229	25.93	_____
UNALLOCATED LABOR	hour	14.22	1.4583	20.74	_____
DIESEL FUEL	gal	2.60	19.3573	50.30	_____
REPAIR & MAINTENANCE	acre	23.23	1.0000	23.23	_____
INTEREST ON OP. CAP.	acre	8.67	1.0000	8.67	_____

TOTAL DIRECT EXPENSES				547.88	_____
RETURNS ABOVE DIRECT EXPENSES				145.12	_____
TOTAL FIXED EXPENSES				125.73	_____

TOTAL SPECIFIED EXPENSES				673.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				19.39	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
						-----hours-----					
Soil Test	acre			0.33	Apr	0.3330					
Sprayer 600-750gal Glyphosate 3lbs a.e	60' 175hp pt		0.017	1.00	Apr	4.0000		0.01	0.02	0.01	
Lime (Spread)	ton			0.33	Apr	0.3330					
Bed-Rip/Disk Fold.	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05	
Peanut Plt&Pre Rigid	8R-38	MFWD 190	0.120	1.00	May		0.12	0.12	0.24	0.09	
Peanut Seed	lb					125.0000					
Optimize LIFT	oz					14.8000					
Admire Pro	oz					9.0000					
Sprayer 600-750gal Dual II Magnum	60' 175hp pt		0.017	1.00	May	1.0000		0.01	0.02	0.01	
Valor SX	oz					3.0000					
Sprayer 600-750gal Acephate 90%	60' 175hp lb		0.017	0.25	May	0.1375		0.00	0.00	0.00	
Sprayer 600-750gal Storm	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01	
Cadre	oz					4.0000					
Butyrac 200 (2,4-DB)	pt					1.0000					
Crop Oil Conc. (Veg.)	pt					2.0000					
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01	
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Jul	18.0000		0.01	0.02	0.01	
Sprayer 600-750gal Butyrac 200 (2,4-DB)	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01	
Crop Oil Conc. (Veg.)	pt					2.0000					
Sprayer 600-750gal Select Max	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01	
Crop Oil Conc. (Veg.)	pt					2.0000					
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01	
Tebuconazole 3.6	oz					7.2000					
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Aug	18.0000		0.01	0.02	0.01	
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Aug	1.5000		0.01	0.02	0.01	
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Sep	1.5000		0.01	0.02	0.01	
Peanut Dig/Invertor	4R-38	MFWD 190	0.186	1.00	Sep		0.18	0.18	0.18	0.14	
Peanut Harvester	4R-38	MFWD 225	0.934	1.00	Sep		0.93	0.93	0.93	0.74	
Dry Peanuts	ton					1.0800					
Cleaning Peanuts	ton					1.5300					
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24	
TOTALS								1.82	1.62	2.04	1.45

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 22.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.10	3.43	3.43
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	2.58
Glyphosate 3lbs a.e	pt	8.64						0.26	8.90	8.90
Lime (Spread)	ton	12.65						0.38	13.03	13.03
Bed-Rip/Disk Fold.	8R-38		1.86	0.53	1.87			0.11	4.37	7.88
Peanut Plt&Pre Rigid	8R-38		3.07	2.63	4.18			0.25	10.13	18.87
Peanut Seed	lb	105.00						2.63	107.63	107.63
Optimize LIFT	oz	8.14						0.20	8.34	8.34
Admire Pro	oz	16.20						0.41	16.61	16.61
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	2.58
Dual II Magnum	pt	14.83						0.37	15.20	15.20
Valor SX	oz	13.71						0.34	14.05	14.05
Sprayer 600-750gal	60' 175hp		0.10	0.05	0.13			0.01	0.29	0.64
Acephate 90%	lb	1.20						0.03	1.23	1.23
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Storm	pt	17.12						0.34	17.46	17.46
Cadre	oz	14.16						0.28	14.44	14.44
Butyrac 200 (2,4-DB)	pt	4.34						0.09	4.43	4.43
Crop Oil Conc.(Veg.)	pt	5.16						0.10	5.26	5.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Bravo Weather Stick	pt	10.32						0.21	10.53	10.53
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Aframe	oz	34.38						0.52	34.90	34.90
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Butyrac 200 (2,4-DB)	pt	4.34						0.07	4.41	4.41
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24	5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Select Max	pt	12.71						0.19	12.90	12.90
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24	5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	2.57
Bravo Weather Stick	pt	6.88						0.10	6.98	6.98
Tebuconazole 3.6	oz	5.11						0.08	5.19	5.19
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	2.56
Aframe	oz	34.38						0.34	34.72	34.72
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	2.56
Bravo Weather Stick	pt	10.32						0.10	10.42	10.42
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	2.56
Bravo Weather Stick	pt	10.32						0.05	10.37	10.37
Peanut Dig/Invertor	4R-38		4.74	2.40	4.77			0.06	11.97	20.85
Peanut Harvester	4R-38		28.14	12.84	23.94			0.32	65.24	138.11
Dry Peanuts	ton	25.92						0.13	26.05	26.05
Cleaning Peanuts	ton	27.54						0.14	27.68	27.68
Peanut Dump Cart	6-Row		7.88	2.58	7.94			0.09	18.49	34.36
TOTALS		417.02	50.30	23.23	48.66	0.00	8.67	547.88	125.73	673.61

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 22.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

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	693.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	46.37	44.70	10.32
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.64	28.54	35.62	17.05	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105.00	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	5.16	10.32	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	12.65	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	8.14	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.53	6.71	1.06	2.12	1.06	37.18
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.41	5.44	0.82	1.64	0.82	41.17
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.41	0.40	0.80	0.40	18.02
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.77	4.38	1.06	1.20	0.46	0.80
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	26.53	179.02	54.44	79.50	47.44	160.95
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-179.02	-54.44	-79.50	-47.44	532.05
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-205.55	-259.99	-339.49	-386.93	145.12

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 22.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2019

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			288.75	308.00	327.25	346.50	365.75	385.00	404.25	423.50	442.75	462.00	481.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-261 -386	-243 -369	-226 -352	-209 -334	-191 -317	-174 -300	-157 -282	-139 -265	-122 -248	-105 -230	-87 -213
60	1.08	ton	-214 -340	-193 -319	-172 -298	-152 -277	-131 -257	-110 -236	-89 -215	-69 -194	-48 -173	-27 -153	-6 -132
70	1.26	ton	-167 -293	-143 -269	-119 -245	-95 -220	-70 -196	-46 -172	-22 -148	1 -123	26 -99	50 -75	74 -51
80	1.44	ton	-121 -247	-93 -219	-65 -191	-38 -163	-10 -136	17 -108	44 -80	72 -53	100 -25	128 2	155 30
90	1.62	ton	-74 -200	-43 -169	-12 -138	18 -106	50 -75	81 -44	112 -13	143 17	174 49	205 80	237 111
100	1.80	ton	-28 -153	6 -119	41 -84	75 -49	110 -15	145 19	179 54	214 88	249 123	283 157	318 192
110	1.98	ton	18 -107	56 -69	94 -31	132 7	170 45	209 83	247 121	285 159	323 197	361 235	399 273
120	2.16	ton	65 -60	106 -19	148 22	189 64	231 105	272 147	314 188	356 230	397 271	439 313	480 355
130	2.34	ton	111 -14	156 30	201 76	246 121	291 166	336 211	381 256	426 301	472 346	517 391	562 436
140	2.52	ton	158 32	206 81	255 129	303 178	352 226	400 275	449 323	497 372	546 420	594 469	643 517
150	2.70	ton	204 79	256 131	308 183	360 235	412 287	464 339	516 391	568 442	620 494	672 546	724 598

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 2018 input prices.

Table 23.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Bravo Weather Stick	pt	6.88	5.5000	37.84	_____
Aframe	oz	1.91	36.0000	68.76	_____
Tebuconazole 3.6	oz	0.71	7.2000	5.11	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.16	4.0000	8.64	_____
Dual II Magnum	pt	14.83	1.0000	14.83	_____
Valor SX	oz	4.57	3.0000	13.71	_____
Storm	pt	11.41	1.5000	17.12	_____
Cadre	oz	3.54	4.0000	14.16	_____
Butyrac 200 (2,4-DB)	pt	4.34	2.0000	8.68	_____
Select Max	pt	12.71	1.0000	12.71	_____
INSECTICIDES					
Admire Pro	oz	1.80	9.0000	16.20	_____
Acephate 90%	lb	8.70	0.1375	1.20	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	125.0000	105.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.58	6.0000	15.48	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
INOCULANT					
Optimize LIFT	oz	0.55	14.8000	8.14	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	1.6876	24.02	_____
Self-Propelled	hour	14.23	0.1983	2.81	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.0991	0.90	_____
UNALLOCATED LABOR					
	hour	14.22	1.5087	21.46	_____
DIESEL FUEL					
Tractors	gal	2.60	18.0359	46.88	_____
Self-Propelled	gal	2.60	1.7850	4.61	_____
REPAIR & MAINTENANCE					
Implements	acre	12.09	1.0000	12.09	_____
Tractors	acre	9.66	1.0000	9.66	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	8.83	1.0000	8.83	_____
TOTAL DIRECT EXPENSES				551.91	_____
FIXED EXPENSES					
Implements	acre	43.54	1.0000	43.54	_____
Tractors	acre	66.68	1.0000	66.68	_____
Self-Propelled	acre	15.86	1.0000	15.86	_____
TOTAL FIXED EXPENSES				126.08	_____
TOTAL SPECIFIED EXPENSES				677.99	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 23.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	385.00	1.8000	693.00	_____

TOTAL INCOME				693.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	111.71	1.0000	111.71	_____
HERBICIDES	acre	89.85	1.0000	89.85	_____
INSECTICIDES	acre	17.40	1.0000	17.40	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
ADJUVANTS	acre	15.48	1.0000	15.48	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
INOCULANT	acre	8.14	1.0000	8.14	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2519	2.28	_____
OPERATOR LABOR	hour	14.23	1.8859	26.83	_____
UNALLOCATED LABOR	hour	14.22	1.5087	21.46	_____
DIESEL FUEL	gal	2.60	19.8209	51.49	_____
REPAIR & MAINTENANCE	acre	24.00	1.0000	24.00	_____
INTEREST ON OP. CAP.	acre	8.83	1.0000	8.83	_____

TOTAL DIRECT EXPENSES				551.91	_____
RETURNS ABOVE DIRECT EXPENSES				141.09	_____
TOTAL FIXED EXPENSES				126.08	_____

TOTAL SPECIFIED EXPENSES				677.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.01	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-750gal Glyphosate 3lbs a.e	60' 175hp pt		0.017	1.00	Apr	4.0000		0.01	0.02	0.01
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Rigid	8R-30	MFWD 190	0.139	1.00	May		0.13	0.13	0.13	0.11
Peanut Plt&Pre Rigid	8R-30	MFWD 190	0.152	1.00	May		0.15	0.15	0.30	0.12
Peanut Seed	lb					125.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Sprayer 600-750gal Dual II Magnum	60' 175hp pt		0.017	1.00	May	1.0000		0.01	0.02	0.01
Valor SX	oz					3.0000				
Sprayer 600-750gal Acephate 90%	60' 175hp lb		0.017	0.25	May	0.1375		0.00	0.00	0.00
Sprayer 600-750gal Storm	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Jul	18.0000		0.01	0.02	0.01
Sprayer 600-750gal Butyrac 200 (2,4-DB)	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Select Max	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Aug	18.0000		0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Aug	1.5000		0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Sep	1.5000		0.01	0.02	0.01
Peanut Dig/Invertor	4R-30	MFWD 190	0.235	1.00	Sep		0.23	0.23	0.23	0.18
Peanut Harvester	4R-30	MFWD 225	0.849	1.00	Sep		0.85	0.85	0.85	0.68
Dry Peanuts	ton					1.0800				
Cleaning Peanuts	ton					1.5300				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.88	1.68	2.13	1.50

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.10	3.43		3.43
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Glyphosate 3lbs a.e	pt	8.64						0.26	8.90		8.90
Lime (Spread)	ton	12.65						0.38	13.03		13.03
Bed-Rip/Disk Rigid	8R-30		3.53	0.98	3.56			0.20	8.27	6.45	14.72
Peanut Plt&Pre Rigid	8R-30		3.88	3.48	5.29			0.32	12.97	11.37	24.34
Peanut Seed	lb	105.00						2.63	107.63		107.63
Optimize LIFT	oz	8.14						0.20	8.34		8.34
Admire Pro	oz	16.20						0.41	16.61		16.61
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual II Magnum	pt	14.83						0.37	15.20		15.20
Valor SX	oz	13.71						0.34	14.05		14.05
Sprayer 600-750gal	60' 175hp		0.10	0.05	0.13			0.01	0.29	0.35	0.64
Acephate 90%	lb	1.20						0.03	1.23		1.23
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Storm	pt	17.12						0.34	17.46		17.46
Cadre	oz	14.16						0.28	14.44		14.44
Butyrac 200 (2,4-DB)	pt	4.34						0.09	4.43		4.43
Crop Oil Conc.(Veg.)	pt	5.16						0.10	5.26		5.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	10.32						0.21	10.53		10.53
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Aframe	oz	34.38						0.52	34.90		34.90
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Butyrac 200 (2,4-DB)	pt	4.34						0.07	4.41		4.41
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Select Max	pt	12.71						0.19	12.90		12.90
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	6.88						0.10	6.98		6.98
Tebuconazole 3.6	oz	5.11						0.08	5.19		5.19
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Aframe	oz	34.38						0.34	34.72		34.72
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.10	10.42		10.42
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.05	10.37		10.37
Peanut Dig/Invertor	4R-30		6.00	3.04	6.04			0.08	15.16	11.26	26.42
Peanut Harvester	4R-30		25.59	11.67	21.78			0.30	59.34	65.27	124.61
Dry Peanuts	ton	25.92						0.13	26.05		26.05
Cleaning Peanuts	ton	27.54						0.14	27.68		27.68
Peanut Dump Cart	6-Row		7.88	2.58	7.94			0.09	18.49	15.87	34.36
TOTALS		417.02	51.49	24.00	50.57	0.00	8.83	551.91	126.08	677.99	

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 23.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

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	693.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	46.37	44.70	10.32
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.64	28.54	35.62	17.05	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105.00	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	5.16	10.32	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	12.65	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	8.14	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.53	9.51	1.06	2.12	1.06	36.29
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.41	7.92	0.82	1.64	0.82	39.88
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.71	0.40	0.80	0.40	17.49
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.77	4.54	1.06	1.20	0.46	0.80
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	26.53	185.76	54.44	79.50	47.44	158.24
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-185.76	-54.44	-79.50	-47.44	534.76
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-212.29	-266.73	-346.23	-393.67	141.09

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			288.75	308.00	327.25	346.50	365.75	385.00	404.25	423.50	442.75	462.00	481.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-265 -391	-247 -373	-230 -356	-213 -339	-195 -321	-178 -304	-161 -287	-143 -269	-126 -252	-109 -235	-91 -218
60	1.08	ton	-218 -344	-197 -323	-176 -303	-156 -282	-135 -261	-114 -240	-93 -219	-73 -199	-52 -178	-31 -157	-10 -136
70	1.26	ton	-171 -298	-147 -273	-123 -249	-99 -225	-74 -201	-50 -176	-26 -152	-2 -128	22 -104	46 -79	70 -55
80	1.44	ton	-125 -251	-97 -223	-69 -196	-42 -168	-14 -140	13 -112	40 -85	68 -57	96 -29	124 -1	151 25
90	1.62	ton	-78 -204	-47 -173	-16 -142	14 -111	45 -80	77 -48	108 -17	139 13	170 44	201 75	233 107
100	1.80	ton	-32 -158	2 -123	37 -88	71 -54	106 -19	141 15	175 49	210 84	245 118	279 153	314 188
110	1.98	ton	14 -111	52 -73	90 -35	128 2	166 40	205 78	243 117	281 155	319 193	357 231	395 269
120	2.16	ton	61 -65	102 -23	144 18	185 59	227 101	268 142	310 184	352 226	393 267	435 309	476 350
130	2.34	ton	107 -18	152 26	197 71	242 116	287 161	332 206	377 251	422 296	468 341	513 386	558 432
140	2.52	ton	154 28	202 76	251 125	299 173	348 222	396 270	445 319	493 367	542 416	590 464	639 513
150	2.70	ton	200 74	252 126	304 178	356 230	408 282	460 334	512 386	564 438	616 490	668 542	720 594

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 2018 input prices.

Table 24.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Bravo Weather Stick	pt	6.88	5.5000	37.84	_____
Aframe	oz	1.91	36.0000	68.76	_____
Tebuconazole 3.6	oz	0.71	7.2000	5.11	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.16	4.0000	8.64	_____
Dual II Magnum	pt	14.83	1.0000	14.83	_____
Valor SX	oz	4.57	3.0000	13.71	_____
Storm	pt	11.41	1.5000	17.12	_____
Cadre	oz	3.54	4.0000	14.16	_____
Butyrac 200 (2,4-DB)	pt	4.34	2.0000	8.68	_____
Select Max	pt	12.71	1.0000	12.71	_____
INSECTICIDES					
Admire Pro	oz	1.80	9.0000	16.20	_____
Acephate 90%	lb	8.70	0.1375	1.20	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	125.0000	105.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.58	6.0000	15.48	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
INOCULANT					
Optimize LIFT	oz	0.55	14.8000	8.14	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	1.1856	16.87	_____
Self-Propelled	hour	14.23	0.1983	2.81	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0991	0.90	_____
UNALLOCATED LABOR					
	hour	14.23	1.1072	15.76	_____
DIESEL FUEL					
Tractors	gal	2.60	12.8051	33.28	_____
Self-Propelled	gal	2.60	1.7850	4.61	_____
REPAIR & MAINTENANCE					
Implements	acre	9.26	1.0000	9.26	_____
Tractors	acre	6.83	1.0000	6.83	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	8.46	1.0000	8.46	_____
TOTAL DIRECT EXPENSES				518.78	_____
FIXED EXPENSES					
Implements	acre	37.82	1.0000	37.82	_____
Tractors	acre	47.12	1.0000	47.12	_____
Self-Propelled	acre	15.86	1.0000	15.86	_____
TOTAL FIXED EXPENSES				100.80	_____
TOTAL SPECIFIED EXPENSES				619.58	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 24.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	385.00	1.8000	693.00	_____

TOTAL INCOME				693.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	111.71	1.0000	111.71	_____
HERBICIDES	acre	89.85	1.0000	89.85	_____
INSECTICIDES	acre	17.40	1.0000	17.40	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
ADJUVANTS	acre	15.48	1.0000	15.48	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
INOCULANT	acre	8.14	1.0000	8.14	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1795	1.63	_____
OPERATOR LABOR	hour	14.23	1.3840	19.68	_____
UNALLOCATED LABOR	hour	14.23	1.1072	15.76	_____
DIESEL FUEL	gal	2.60	14.5901	37.89	_____
REPAIR & MAINTENANCE	acre	18.34	1.0000	18.34	_____
INTEREST ON OP. CAP.	acre	8.46	1.0000	8.46	_____

TOTAL DIRECT EXPENSES				518.78	_____
RETURNS ABOVE DIRECT EXPENSES				174.22	_____
TOTAL FIXED EXPENSES				100.80	_____

TOTAL SPECIFIED EXPENSES				619.58	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				73.42	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 24.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----			
Soil Test	acre			0.33	Apr	0.3330			
Sprayer 600-750gal Glyphosate 3lbs a.e	60' 175hp pt		0.017	1.00	Apr	4.0000	0.01	0.02	0.01
Lime (Spread)	ton			0.33	Apr	0.3330			
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16
Peanut Seed	lb					125.0000			
Optimize LIFT	oz					14.8000			
Admire Pro	oz					9.0000			
Sprayer 600-750gal Dual II Magnum	60' 175hp pt		0.017	1.00	May	1.0000	0.01	0.02	0.01
Valor SX	oz					3.0000			
Sprayer 600-750gal Acephate 90%	60' 175hp lb		0.017	0.25	May	0.1375	0.00	0.00	0.00
Sprayer 600-750gal Storm	60' 175hp pt		0.017	1.00	Jun	1.5000	0.01	0.02	0.01
Cadre	oz					4.0000			
Butyrac 200 (2,4-DB)	pt					1.0000			
Crop Oil Conc.(Veg.)	pt					2.0000			
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jun	1.5000	0.01	0.02	0.01
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Jul	18.0000	0.01	0.02	0.01
Sprayer 600-750gal Butyrac 200 (2,4-DB)	60' 175hp pt		0.017	1.00	Jul	1.0000	0.01	0.02	0.01
Crop Oil Conc.(Veg.)	pt					2.0000			
Sprayer 600-750gal Select Max	60' 175hp pt		0.017	1.00	Jul	1.0000	0.01	0.02	0.01
Crop Oil Conc.(Veg.)	pt					2.0000			
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jul	1.0000	0.01	0.02	0.01
Tebuconazole 3.6	oz					7.2000			
Sprayer 600-750gal Aframe	60' 175hp oz		0.017	1.00	Aug	18.0000	0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Aug	1.5000	0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Sep	1.5000	0.01	0.02	0.01
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.50
Dry Peanuts	ton					1.0800			
Cleaning Peanuts	ton					1.5300			
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.24
TOTALS						1.38	1.18	1.56	1.10

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 24.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.10	3.43		3.43
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Glyphosate 3lbs a.e	pt	8.64						0.26	8.90		8.90
Lime (Spread)	ton	12.65						0.38	13.03		13.03
Bed-Rip/Disk Fold.	12R-38		1.39	0.41	1.19			0.07	3.06	2.63	5.69
Peanut Plt&Pre Fold.	12R-38		2.04	3.18	2.79			0.20	8.21	8.87	17.08
Peanut Seed	lb	105.00						2.63	107.63		107.63
Optimize LIFT	oz	8.14						0.20	8.34		8.34
Admire Pro	oz	16.20						0.41	16.61		16.61
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual II Magnum	pt	14.83						0.37	15.20		15.20
Valor SX	oz	13.71						0.34	14.05		14.05
Sprayer 600-750gal	60' 175hp		0.10	0.05	0.13			0.01	0.29	0.35	0.64
Acephate 90%	lb	1.20						0.03	1.23		1.23
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Storm	pt	17.12						0.34	17.46		17.46
Cadre	oz	14.16						0.28	14.44		14.44
Butyrac 200 (2,4-DB)	pt	4.34						0.09	4.43		4.43
Crop Oil Conc.(Veg.)	pt	5.16						0.10	5.26		5.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	10.32						0.21	10.53		10.53
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Aframe	oz	34.38						0.52	34.90		34.90
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Butyrac 200 (2,4-DB)	pt	4.34						0.07	4.41		4.41
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Select Max	pt	12.71						0.19	12.90		12.90
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	6.88						0.10	6.98		6.98
Tebuconazole 3.6	oz	5.11						0.08	5.19		5.19
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Aframe	oz	34.38						0.34	34.72		34.72
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.10	10.42		10.42
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.05	10.37		10.37
Peanut Dig/Invertor	6R-38		3.15	1.63	3.18			0.04	8.00	6.49	14.49
Peanut Harvester	6R-38		18.82	8.29	16.01			0.22	43.34	51.08	94.42
Dry Peanuts	ton	25.92						0.13	26.05		26.05
Cleaning Peanuts	ton	27.54						0.14	27.68		27.68
Peanut Dump Cart	6-Row		7.88	2.58	7.94			0.09	18.49	15.87	34.36
TOTALS			417.02	37.89	18.34	37.07	0.00	8.46	518.78	100.80	619.58

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 24.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

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	693.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	46.37	44.70	10.32
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.64	28.54	35.62	17.05	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105.00	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	5.16	10.32	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	12.65	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	8.14	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.53	4.64	1.06	2.12	1.06	27.66
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.41	3.94	0.82	1.64	0.82	30.26
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.84	0.40	0.80	0.40	12.70
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.77	4.29	1.06	1.20	0.46	0.68
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	26.53	175.79	54.44	79.50	47.44	135.08
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-175.79	-54.44	-79.50	-47.44	557.92
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-26.53	-202.32	-256.76	-336.26	-383.70	174.22

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			288.75	308.00	327.25	346.50	365.75	385.00	404.25	423.50	442.75	462.00	481.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-232 -332	-214 -315	-197 -298	-180 -280	-162 -263	-145 -246	-128 -228	-110 -211	-93 -194	-76 -176	-58 -159
60	1.08	ton	-185 -286	-164 -265	-143 -244	-123 -223	-102 -203	-81 -182	-60 -161	-39 -140	-19 -119	1 -99	22 -78
70	1.26	ton	-138 -239	-114 -215	-90 -191	-66 -166	-41 -142	-17 -118	6 -94	30 -69	55 -45	79 -21	103 2
80	1.44	ton	-92 -193	-64 -165	-36 -137	-9 -109	18 -82	46 -54	74 -26	101 1	129 28	157 56	184 84
90	1.62	ton	-45 -146	-14 -115	16 -84	47 -52	79 -21	110 9	141 40	172 71	203 103	235 134	266 165
100	1.80	ton	0 -99	35 -65	70 -30	104 4	139 38	174 73	208 108	243 142	278 177	312 212	347 246
110	1.98	ton	47 -53	85 -15	123 23	161 61	200 99	238 137	276 175	314 213	352 251	390 289	428 327
120	2.16	ton	94 -6	135 34	177 76	218 118	260 159	302 201	343 242	385 284	426 326	468 367	509 409
130	2.34	ton	140 39	185 85	230 130	275 175	320 220	366 265	411 310	456 355	501 400	546 445	591 490
140	2.52	ton	187 86	235 135	284 183	332 232	381 280	429 329	478 377	526 426	575 474	623 523	672 571
150	2.70	ton	233 133	285 185	337 237	389 289	441 341	493 393	545 445	597 497	649 548	701 600	753 652

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 2018 input prices.

Table 25.A Estimated costs per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Bravo Weather Stick	pt	6.88	5.5000	37.84	_____
Aframe	oz	1.91	36.0000	68.76	_____
Tebuconazole 3.6	oz	0.71	7.2000	5.11	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.16	4.0000	8.64	_____
Dual II Magnum	pt	14.83	1.0000	14.83	_____
Valor SX	oz	4.57	3.0000	13.71	_____
Storm	pt	11.41	1.5000	17.12	_____
Cadre	oz	3.54	4.0000	14.16	_____
Butyrac 200 (2,4-DB)	pt	4.34	2.0000	8.68	_____
Select Max	pt	12.71	1.0000	12.71	_____
INSECTICIDES					
Admire Pro	oz	1.80	9.0000	16.20	_____
Acephate 90%	lb	8.70	0.1375	1.20	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	125.0000	105.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.58	6.0000	15.48	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.8700	33.66	_____
DRYING					
Dry Peanuts	ton	24.00	1.3200	31.68	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.3330	12.65	_____
INOCULANT					
Optimize LIFT	oz	0.55	14.8000	8.14	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	14.23	1.2642	17.99	_____
Self-Propelled	hour	14.23	0.1983	2.81	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0991	0.90	_____
UNALLOCATED LABOR					
	hour	14.23	1.1072	15.76	_____
DIESEL FUEL					
Tractors	gal	2.60	13.5313	35.16	_____
Self-Propelled	gal	2.60	1.7850	4.61	_____
Irrigate Peanuts	gal	2.60	9.7755	25.40	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	7.23	1.0000	7.23	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
Irrigate Peanuts	acre	6.88	1.0000	6.88	_____
INTEREST ON OP. CAP.	acre	9.45	1.0000	9.45	_____
TOTAL DIRECT EXPENSES				579.31	_____
FIXED EXPENSES					
Implements	acre	38.96	1.0000	38.96	_____
Tractors	acre	49.85	1.0000	49.85	_____
Self-Propelled	acre	15.86	1.0000	15.86	_____
Irrigate Peanuts	acre	61.50	1.0000	61.50	_____
TOTAL FIXED EXPENSES				166.17	_____
TOTAL SPECIFIED EXPENSES				745.48	_____

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 25.B Summary of estimated costs and returns per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	385.00	2.2000	847.00	_____

TOTAL INCOME				847.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	111.71	1.0000	111.71	_____
HERBICIDES	acre	89.85	1.0000	89.85	_____
INSECTICIDES	acre	17.40	1.0000	17.40	_____
IRRIGATION SUPPLIES	acre	8.25	1.0000	8.25	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
ADJUVANTS	acre	15.48	1.0000	15.48	_____
CLEANING	acre	33.66	1.0000	33.66	_____
DRYING	acre	31.68	1.0000	31.68	_____
CUSTOM LIME	acre	12.65	1.0000	12.65	_____
INOCULANT	acre	8.14	1.0000	8.14	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1795	1.63	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	14.23	1.4625	20.80	_____
UNALLOCATED LABOR	hour	14.23	1.1072	15.76	_____
DIESEL FUEL	gal	2.60	25.0919	65.17	_____
REPAIR & MAINTENANCE	acre	25.82	1.0000	25.82	_____
INTEREST ON OP. CAP.	acre	9.45	1.0000	9.45	_____

TOTAL DIRECT EXPENSES				579.31	_____
RETURNS ABOVE DIRECT EXPENSES				267.69	_____
TOTAL FIXED EXPENSES				166.17	_____

TOTAL SPECIFIED EXPENSES				745.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				101.52	_____

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 25.C Estimated resource use for field operations, per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					125.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Aframe	oz					18.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Aframe	oz					18.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.3200				
Cleaning Peanuts	ton					1.8700				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Irrigate Peanuts	acre				Jan	1.0000	0.07	0.07	0.46	
TOTALS							1.46	1.26	2.02	1.10

Note: Cost of production estimates are based on 2018 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 25.D Estimated costs for field operations, per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.10	3.43		3.43
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Glyphosate 3lbs a.e	pt	8.64						0.26	8.90		8.90
Lime (Spread)	ton	12.65						0.38	13.03		13.03
Bed-Rip/Disk Fold.	12R-38		1.39	0.41	1.19			0.07	3.06	2.63	5.69
Peanut Plt&Pre Fold.	12R-38		2.04	3.18	2.79			0.20	8.21	8.87	17.08
Peanut Seed	lb	105.00						2.63	107.63		107.63
Optimize LIFT	oz	8.14						0.20	8.34		8.34
Admire Pro	oz	16.20						0.41	16.61		16.61
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.03	1.17	1.41	2.58
Dual II Magnum	pt	14.83						0.37	15.20		15.20
Valor SX	oz	13.71						0.34	14.05		14.05
Sprayer 600-750gal	60' 175hp		0.10	0.05	0.13			0.01	0.29	0.35	0.64
Acephate 90%	lb	1.20						0.03	1.23		1.23
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Storm	pt	17.12						0.34	17.46		17.46
Cadre	oz	14.16						0.28	14.44		14.44
Butyrac 200 (2,4-DB)	pt	4.34						0.09	4.43		4.43
Crop Oil Conc.(Veg.)	pt	5.16						0.10	5.26		5.26
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	10.32						0.21	10.53		10.53
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Aframe	oz	34.38						0.52	34.90		34.90
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Butyrac 200 (2,4-DB)	pt	4.34						0.07	4.41		4.41
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Select Max	pt	12.71						0.19	12.90		12.90
Crop Oil Conc.(Veg.)	pt	5.16						0.08	5.24		5.24
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.02	1.16	1.41	2.57
Bravo Weather Stick	pt	6.88						0.10	6.98		6.98
Tebuconazole 3.6	oz	5.11						0.08	5.19		5.19
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Aframe	oz	34.38						0.34	34.72		34.72
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.10	10.42		10.42
Sprayer 600-750gal	60' 175hp		0.41	0.20	0.53			0.01	1.15	1.41	2.56
Bravo Weather Stick	pt	10.32						0.05	10.37		10.37
Peanut Dig/Invertor	6R-38		3.15	1.63	3.18			0.04	8.00	6.49	14.49
Peanut Harvester	6R-38		18.82	8.29	16.01			0.22	43.34	51.08	94.42
Dry Peanuts	ton	31.68						0.16	31.84		31.84
Cleaning Peanuts	ton	33.66						0.17	33.83		33.83
Peanut Dump Cart	6-Row		7.88	2.58	7.94			0.09	18.49	15.87	34.36
Irrigate Peanuts	acre	8.25	27.28	7.48	4.65			0.93	48.59	65.37	113.96
TOTALS		437.15	65.17	25.82	41.72	0.00	9.45	579.31	166.17	745.48	

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.E Estimated monthly income and expense flows per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

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	847.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	46.37	44.70	10.32
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.64	28.54	35.62	17.05	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.25	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105.00	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	5.16	10.32	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.66
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.68
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	12.65	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	8.14	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.54	0.00	0.00	0.00	0.00	0.00	0.76	6.99	1.29	2.58	1.90	27.66
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	0.96	0.00	0.00	0.00	0.00	0.00	0.41	4.43	7.17	14.34	7.60	30.26
REPAIR & MAINTENANCE	0.32	0.00	0.00	0.00	0.00	0.00	0.20	6.95	1.38	2.76	1.51	12.70
INTEREST ON OP. CAP.	0.11	0.00	0.00	0.00	0.00	0.00	0.78	4.65	1.21	1.42	0.54	0.74
TOTAL DIRECT EXPENSES	1.93	0.00	0.00	0.00	0.00	0.00	26.77	190.35	62.15	94.84	56.25	147.02
NET INCOME	-1.93	0.00	0.00	0.00	0.00	0.00	-26.77	-190.35	-62.15	-94.84	-56.25	699.98
NET INCOME TO DATE	-1.93	-1.93	-1.93	-1.93	-1.93	-1.93	-28.70	-219.05	-281.20	-376.04	-432.29	267.69

Note: Cost of production estimates are based on 2018 input prices.

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 25.F Estimated returns for various price/yield combinations, per acre
 Peanut-runner, 2.2 ton (4,400 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2019

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			288.75	308.00	327.25	346.50	365.75	385.00	404.25	423.50	442.75	462.00	481.25
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-228 -395	-207 -373	-186 -352	-165 -331	-144 -310	-122 -289	-101 -267	-80 -246	-59 -225	-38 -204	-17 -183
60	1.32	ton	-171 -338	-146 -312	-121 -287	-95 -261	-70 -236	-44 -211	-19 -185	5 -160	31 -134	56 -109	82 -83
70	1.54	ton	-114 -281	-85 -251	-55 -221	-25 -192	3 -162	33 -132	62 -103	92 -73	122 -43	151 -14	181 15
80	1.76	ton	-57 -224	-24 -190	9 -156	43 -122	77 -88	111 -54	145 -20	179 13	213 46	246 80	280 114
90	1.98	ton	-1 -167	37 -129	75 -90	113 -52	151 -14	189 23	227 61	265 99	303 137	342 175	380 213
100	2.20	ton	55 -110	98 -67	140 -25	182 16	225 59	267 101	310 143	352 186	394 228	437 270	479 313
110	2.42	ton	112 -53	159 -6	206 39	252 86	299 133	345 179	392 226	438 272	485 319	532 365	578 412
120	2.64	ton	169 3	220 54	271 105	322 156	373 206	423 257	474 308	525 359	576 410	627 461	678 511
130	2.86	ton	226 60	281 115	336 170	391 225	447 280	502 335	557 390	612 446	667 501	722 556	777 611
140	3.08	ton	283 117	343 176	402 236	461 295	520 354	580 414	639 473	698 532	758 591	817 651	876 710
150	3.30	ton	340 174	404 238	467 301	531 365	594 428	658 492	721 555	785 619	848 682	912 746	975 809

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 2018 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, 2019

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	339,000	300	8	13.64	13.51	35.46	35.31	84.28	151.94	236.23
Combine (300-349 hp)	325 hp	362,000	300	8	16.73	13.51	43.49	37.70	94.71	162.25	256.97
Combine (350-399 hp)	355 hp	391,000	300	8	18.27	13.51	47.50	40.72	101.74	175.25	276.99
Combine (400-449 hp)	425 hp	412,000	300	8	21.87	13.51	56.87	42.91	113.30	184.66	297.97
Combine (450-499hp)	475 hp	434,000	300	8	24.44	13.51	63.56	45.20	122.28	194.52	316.81
Tractor (20-39hp)CB	MFWD 30	25,500	600	8	1.54	13.51	4.01	0.79	18.32	5.29	23.61
Tractor (20-39hp)RB	MFWD 30	20,400	600	8	1.54	13.51	4.01	0.63	18.16	4.23	22.39
Tractor (40-59hp)CB	2WD 50	29,400	600	8	2.57	13.51	6.69	0.91	21.12	6.10	27.22
Tractor (40-59hp)CB	MFWD 50	39,500	600	8	2.57	13.51	6.69	1.23	21.43	8.19	29.63
Tractor (40-59hp)RB	2WD 50	22,900	600	8	2.57	13.51	6.69	0.71	20.91	4.75	25.67
Tractor (40-59hp)RB	MFWD 50	27,800	600	8	2.57	13.51	6.69	0.86	21.07	5.77	26.84
Tractor (60-89hp)CB	2WD 75	52,800	600	8	3.86	13.51	10.03	1.65	25.19	10.95	36.15
Tractor (60-89hp)CB	MFWD 75	62,500	600	8	3.86	13.51	10.03	1.95	25.50	12.97	38.47
Tractor (60-89hp)RB	2WD 75	38,600	600	8	3.86	13.51	10.03	1.20	24.75	8.01	32.76
Tractor (60-89hp)RB	MFWD 75	40,100	600	8	3.86	13.51	10.03	1.25	24.80	8.32	33.12
Tractor (90-119hp)CB	2WD 105	69,200	600	8	5.40	13.51	14.05	2.16	29.72	14.36	44.08
Tractor (90-119hp)CB	MFWD 105	83,000	600	8	5.40	13.51	14.05	2.59	30.15	17.22	47.38
Tractor (90-119hp)RB	2WD 105	61,200	600	8	5.40	13.51	14.05	1.91	29.47	12.70	42.17
Tractor (90-119hp)RB	MFWD 105	67,500	600	8	5.40	13.51	14.05	2.10	29.67	14.01	43.68
Tractor (120-139hp)CB	2WD 130	103,000	600	8	6.69	13.51	17.39	3.21	34.12	21.37	55.50
Tractor (120-139hp)CB	MFWD 130	114,000	600	8	6.69	13.51	17.39	3.56	34.47	23.66	58.13
Tractor (140-159hp)	2WD 150	109,000	600	8	7.72	13.51	20.07	3.40	36.99	22.62	59.61
Tractor (140-159hp)CB	MFWD 150	130,000	600	8	7.72	13.51	20.07	4.06	37.64	26.98	64.63
Tractor (160-179hp)CB	MFWD 170	148,000	600	8	8.75	13.51	22.75	4.62	40.88	31.94	72.83
Tractor (180-199hp)CB	MFWD 190	175,000	600	8	9.77	13.51	25.42	5.46	44.40	37.77	82.17
Tractor (200-249hp)CB	MFWD 225	191,000	600	8	11.58	13.51	30.11	5.96	49.59	41.22	90.81
Tractor (250-349hp)CB	4WD 300	286,000	600	8	15.44	13.51	40.14	8.93	62.59	61.73	124.32
Tractor (250-349hp)CB	MFWD 300	278,000	600	8	15.44	13.51	40.14	8.68	62.34	60.00	122.34
Tractor (250-349hp)CB	Track 300	317,000	600	8	15.44	13.51	40.14	9.90	63.56	68.42	131.98
Tractor (350-449hp)	Track 400	420,000	600	8	20.58	13.51	53.53	13.12	80.16	90.65	170.81
Tractor (350-449hp)CB	4WD 400	328,000	600	8	20.58	13.51	53.53	10.25	77.29	70.79	148.08
Tractor (450-550hp)CB	4WD 500	394,000	600	8	25.73	13.51	66.91	12.31	92.73	85.04	177.77
Tractor (450-550hp)CB	Track 500	444,000	600	8	25.73	13.51	66.91	13.87	94.29	95.83	190.13
Utility Vehicle	800 CC	12,200	200	8	0.70	13.51	1.75	1.90	17.16	8.20	25.36
Utility Vehicle	900 CC	15,800	200	8	1.00	13.51	2.50	2.46	18.47	10.62	29.10

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

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, 2019

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	5.81	8.62	10.79	25.23	46.44	71.68
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.81	12.07	14.13	32.02	60.83	92.86
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	3.88	8.07	9.61	21.57	41.35	62.92
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	4.92	10.36	15.85	31.15	68.23	99.38
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	3.88	8.18	12.51	24.59	53.86	78.46
Cotton Picker/Module	4R-38 (365)	536,000	200	8	20.58	0.257	5.81	13.79	21.58	41.20	92.89	134.10
Cotton Picker/Module	6R-30 (500)	776,000	200	8	25.73	0.218	4.92	14.60	26.46	45.99	113.86	159.85
Cotton Picker/Module	6R-38 (500)	777,000	200	8	25.73	0.172	3.88	11.52	20.91	36.33	90.01	126.35
Dry Applicator SP	70'300cuft	347,000	350	8	16.98	0.015	0.27	0.66	0.28	1.22	2.01	3.23
Sprayer 600-750gal	60' 175hp	208,000	350	8	9.00	0.017	0.31	0.41	0.19	0.92	1.40	2.33
Sprayer 600-825gal	80' 175hp	210,000	350	8	11.81	0.013	0.23	0.40	0.14	0.79	1.06	1.85
Sprayer 600-825gal	90' 250hp	288,000	350	8	12.73	0.011	0.21	0.38	0.18	0.78	1.30	2.08
Sprayer 800gal	100' 250hp	303,000	350	8	14.15	0.010	0.19	0.38	0.17	0.75	1.23	1.98
Sprayer 800gal	80' 250hp	255,000	350	8	12.86	0.013	0.23	0.44	0.18	0.86	1.29	2.15
Sprayer 1000-1400gal	90' 275hp	289,000	350	8	14.15	0.010	0.19	0.38	0.16	0.74	1.17	1.91
Sprayer 1000gal	100' 300hp	328,000	350	8	15.44	0.010	0.19	0.42	0.18	0.80	1.33	2.13
Sprayer 1200+gal	120' 300hp	332,000	350	8	15.44	0.008	0.15	0.35	0.15	0.66	1.12	1.79

Notes:

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

Direct: Does not include interest on operating capital.

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
Bed-Paratill	Fold	8R-38	MFWD 225	54,400	150	12	0.080	1.09	2.43	1.58	0.48	5.59	3.08	3.32	12.00
Bed-Paratill	Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.72	1.61	1.34	0.32	4.00	2.60	2.21	8.83
Bed-Paratill	Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.72	1.61	1.34	0.32	4.00	2.60	2.21	8.83
Bed-Paratill	Rigid	4R-30	MFWD 225	12,300	150	12	0.204	2.76	6.15	0.90	1.21	11.04	1.76	8.42	21.22
Bed-Paratill	Rigid	4R-38	MFWD 225	12,300	150	12	0.160	2.17	4.84	0.71	0.96	8.69	1.38	6.63	16.71
Bed-Paratill	Rigid	6R-30	MFWD 225	17,300	150	12	0.136	1.84	4.10	0.85	0.81	7.60	1.65	5.61	14.87
Bed-Paratill	Rigid	6R-38	MFWD 225	17,200	150	12	0.107	1.45	3.23	0.66	0.64	6.00	1.29	4.43	11.73
Bed-Paratill	Rigid	8R-30	MFWD 225	22,600	150	12	0.102	1.38	3.07	0.83	0.60	5.90	1.62	4.21	11.73
Bed-Paratill	Rigid	8R-38	MFWD 225	22,600	150	12	0.080	1.09	2.43	0.65	0.48	4.66	1.28	3.32	9.27
Bed-Rip/Disk	Fold.	8R-38	MFWD 190	36,900	300	20	0.073	0.98	1.85	0.13	0.39	3.37	0.74	2.76	6.88
Bed-Rip/Disk	Fold.	12R-30	MFWD 225	56,600	300	20	0.061	0.83	1.85	0.17	0.36	3.23	0.96	2.54	6.73
Bed-Rip/Disk	Fold.	12R-38	MFWD 225	56,600	300	20	0.046	0.62	1.39	0.13	0.27	2.42	0.72	1.90	5.05
Bed-Rip/Disk	Rigid	4R-30	MFWD 190	17,300	300	20	0.184	2.49	4.70	0.15	1.01	8.36	0.88	6.98	16.23
Bed-Rip/Disk	Rigid	4R-38	MFWD 190	17,300	300	20	0.146	1.98	3.73	0.12	0.80	6.64	0.70	5.54	12.88
Bed-Rip/Disk	Rigid	6R-38	MFWD 190	23,900	300	20	0.097	1.31	2.47	0.11	0.53	4.43	0.64	3.67	8.75
Bed-Rip/Disk	Rigid	8R-30	MFWD 190	31,300	300	20	0.139	1.87	3.53	0.21	0.76	6.39	1.20	5.25	12.84
Bed-Rip/Disk	Rigid	8R-38	MFWD 190	31,300	300	20	0.073	0.98	1.85	0.11	0.39	3.35	0.63	2.76	6.75
Bed-Rip/Disk	Rigid	6R-30	MFWD 190	23,900	300	20	0.123	1.66	3.13	0.14	0.67	5.62	0.81	4.65	11.09
Bed-Rip/Disk/Cond.		6-Row	MFWD 225	24,600	150	12	0.107	1.45	3.23	0.95	0.64	6.28	1.85	4.43	12.57
Bed-Rip/Disk/Cond.		8-Row	MFWD 225	32,700	150	12	0.080	1.09	2.43	0.95	0.48	4.95	1.85	3.32	10.14
Bed/Disk (Hipper)		4R-38	MFWD 150	9,200	160	10	0.147	1.99	2.96	0.33	0.59	5.89	0.99	3.98	10.87
Bed/Disk (Hipper)		6R-38	MFWD 170	13,000	160	10	0.098	1.33	2.24	0.32	0.45	4.35	0.93	3.15	8.44
Bed/Disk (Hipper)		8R-30	MFWD 190	17,800	160	10	0.093	1.26	2.38	0.41	0.51	4.58	1.21	3.54	9.34
Bed/Disk (Hipper)		8R-38 2x1	MFWD 190	29,200	160	10	0.049	0.66	1.25	0.36	0.26	2.55	1.05	1.86	5.46
Bed/Disk (Hipper)		12R-30	MFWD 225	31,000	160	10	0.062	0.84	1.88	0.48	0.37	3.58	1.41	2.57	7.57
Bed/Disk (Hipper)		12R-38	MFWD 225	29,200	160	10	0.049	0.66	1.48	0.36	0.29	2.80	1.05	2.03	5.89
Bed/Disk (Hipper)Fl		8R-38	MFWD 190	2,000	160	10	0.074	1.00	1.88	0.03	0.40	3.32	0.10	2.79	6.23
Bed/Disk (Hipper)Rd		8R-38	MFWD 190	18,400	160	10	0.074	1.00	1.88	0.34	0.40	3.63	0.99	2.79	7.42
Bed/Disk w/roller		8R-30	MFWD 190	26,600	160	10	0.093	1.26	2.38	0.62	0.51	4.78	1.82	3.54	10.14
Bed/Disk w/roller		8R-38	MFWD 190	26,600	160	10	0.074	1.00	1.88	0.49	0.40	3.78	1.43	2.79	8.02
Bed/Disk w/roller		12R-30/40	MFWD 225	47,000	160	10	0.062	0.84	1.88	0.73	0.37	3.83	2.14	2.57	8.55
Bed/Lister		4R-38	MFWD 150	18,200	160	8	0.228	3.08	4.58	0.97	0.92	9.57	3.36	6.16	19.09
Bed/Lister		6R-38	MFWD 150	19,100	160	8	0.120	1.62	2.41	0.53	0.48	5.06	1.85	3.24	10.16
Bed/Lister		8R-30	MFWD 190	23,100	160	8	0.114	1.54	2.90	0.61	0.62	5.68	2.13	4.31	12.13
Bed/Lister		8R-38	MFWD 190	23,400	160	8	0.090	1.21	2.29	0.49	0.49	4.50	1.70	3.40	9.62
Bed/Lister		8R-38 2x1	MFWD 190	46,700	160	8	0.060	0.81	1.52	0.65	0.32	3.32	2.27	2.27	7.86
Bed/Lister		12R-38	MFWD 225	46,700	160	8	0.060	0.81	1.80	0.65	0.35	3.63	2.27	2.47	8.38
Bed/Lister		16R-30	MFWD 225	58,100	160	8	0.035	0.47	1.05	0.47	0.20	2.22	1.65	1.44	5.32
Bed/Lister		16R40	MFWD 300	60,900	160	8	0.043	0.58	1.73	0.61	0.37	3.30	2.12	2.58	8.01
Bed/Lister-Roll-Fold		8R-38	MFWD 190	24,300	160	10	0.074	1.00	1.88	0.45	0.40	3.74	1.31	2.79	7.85
Bed/Lister-Roll-Fold		12R-30	MFWD 225	29,200	160	10	0.062	0.84	1.88	0.45	0.37	3.55	1.33	2.57	7.46
Bed/Lister-Roll-Fold		12R-38	MFWD 225	33,700	160	10	0.049	0.66	1.48	0.41	0.29	2.86	1.21	2.03	6.11
Bed/Lister-Roll-Fold		16R-30	MFWD 225	34,800	160	10	0.046	0.63	1.41	0.40	0.27	2.73	1.19	1.93	5.85
Bed/Lister-Roll-Rig.		8R-38	MFWD 190	20,300	160	10	0.074	1.00	1.88	0.37	0.40	3.66	1.09	2.79	7.56
Blade-Box		6'-7'	MFWD 105	1,221	200	20	0.020	0.27	0.28	0.01	0.04	0.60	0.01	0.28	0.89
Blade-Box		8'-10'	MFWD 105	3,700	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper		6'-7'	MFWD 105	1,213	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper		8'-10'	MFWD 105	3,550	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy		4R-38 (250)	MFWD 190	30,500	200	10	0.257	3.48	6.55	1.96	1.40	13.41	4.44	9.73	27.59
Boll Buggy		4R-38 (350)	MFWD 190	30,500	200	10	0.257	3.48	6.55	1.96	1.40	13.41	4.44	9.73	27.59
Boll Buggy		4R2x1 (350)	MFWD 190	30,500	200	10	0.172	2.32	4.38	1.31	0.94	8.96	2.97	6.50	18.44
Boll Buggy		6R-30 (355)	MFWD 190	30,500	200	10	0.218	2.94	5.54	1.66	1.19	11.35	3.76	8.24	23.36
Boll Buggy		6R-38 (355)	MFWD 190	30,500	200	10	0.172	2.32	4.38	1.31	0.94	8.96	2.97	6.50	18.44
Chisel Plow-Folding		24'	MFWD 190	39,900	150	12	0.076	1.03	1.94	1.10	0.41	4.49	2.14	2.88	9.52
Chisel Plow-Folding		32'	MFWD 225	51,900	150	12	0.057	0.78	1.73	1.08	0.34	3.94	2.10	2.38	8.43
Chisel Plow-Folding		42'	MFWD 225	62,500	150	12	0.044	0.59	1.32	0.99	0.26	3.17	1.93	1.81	6.92
Chisel Plow-Folding		50'	MFWD 225	81,900	150	10	0.036	0.49	1.11	1.31	0.22	3.14	2.35	1.52	7.02
Chisel Plow-Folding		61'	MFWD 225	92,400	150	12	0.030	0.40	0.91	1.01	0.18	2.51	1.96	1.24	5.72
Chisel Plow-Rigid		10'	MFWD 170	7,090	150	12	0.184	2.49	4.20	0.47	0.85	8.03	0.92	5.90	14.85
Chisel Plow-Rigid		15'	2WD 130	11,800	150	12	0.123	1.66	2.14	0.52	0.39	4.73	1.02	2.63	8.38
Chisel Plow-Rigid		20'	MFWD 225	11,300	150	12	0.102	1.38	3.09	0.41	0.61	5.51	0.81	4.23	10.56
Chisel Plow-Rigid		24'	MFWD 190	11,700	150	12	0.077	1.04	1.95	0.32	0.42	3.74	0.63	2.90	7.28
Cultivate		4R-30	2WD 105	12,100	150	10	0.206	2.78	2.89	0.66	0.44	6.79	1.94	2.96	11.70
Cultivate		4R-38	2WD 105	12,200	150	10	0.162	2.19	2.28	0.52	0.31	5.31	1.54	2.06	8.92
Cultivate		6R-30	MFWD 150	16,300	150	10	0.137	1.85	2.76	0.59	0.55	5.77	1.74	3.71	11.23
Cultivate		6R-38	MFWD 150	17,200	150	10	0.108	1.46	2.17	0.49	0.44	4.58	1.45	2.92	8.96
Cultivate		8R-30	MFWD 190	21,400	150	10	0.103	1.39	2.62	0.58	0.56	5.16	1.71	3.89	10.78
Cultivate		8R-38	MFWD 190	22,600	150	10	0.073	0.99	1.87	0.44	0.40	3.71	1.29	2.78	7.79
Cultivate		8R-38 2x1	MFWD 190	35,400	150	10	0.054	0.73	1.38	0.51	0.29	2.92	1.49	2.05	6.47
Cultivate		12R-30	MFWD 225	39,900	150	10	0.068	0.92	2.07	0.73	0.41	4.14	2.13	2.83	9.11
Cultivate		12R-38	MFWD 225	39,100	150	10	0.054	0.73	1.63	0.56	0.32	3.25	1.65	2.23	7.14
Cultivate		16R-30	MFWD 225	47,800	150	10	0.051	0.69	1.55	0.65	0.30	3.21	1.92	2.12	7.25
Cultivate & Post		4R-30	2WD 105	19,400	150	10	0.220	3.96	3.09	1.13	0.42	8.61	3.32	2.79	14.73
Cultivate & Post		4R-38	2WD 105	19,500	150	10	0.173	3.12	2.43	0.90	0.33	6.79	2.63	2.20	11.62
Cultivate & Post		6R-30	MFWD 150	23,600	150	10	0.146	2.64	2.94	0.92	0.59	7.10	2.69	3.95	13.76
Cultivate & Post		6R-38	MFWD 150	24,500	150	10	0.115	2.08	2.32	0.75	0.47	5.64	2.21	3.12	10.97
Cultivate & Post		8R-30	MFWD 190	28,700	150	10	0.110	1.98	2.79	0.84	0.60	6.22	2.45	4.15	12.83
Cultivate & Post		8R-38	MFWD 190	29,800	150	10	0.086	1.56	2.21	0.69	0.47	4.94	2.01	3.28	10.25
Cultivate & Post		8R-38 2x1	MFWD 190	47,800	150	10	0.057	1.04	1.47	0.73	0.31	3.57	2.15	2.18	7.91

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Cultivate & Post	12R-30	MFWD 225	47,200	150	10	0.073	1.32	2.20	0.92	0.43	4.89	2.69	3.02	10.61
Cultivate & Post	12R-38	MFWD 225	47,800	150	10	0.057	1.04	1.74	0.73	0.34	3.87	2.15	2.38	8.41
Cultivate & Post	16R-30	MFWD 225	56,500	150	10	0.055	0.99	1.65	0.82	0.32	3.80	2.42	2.26	8.49
Disk & Incorporate	14'	2WD 130	31,900	200	10	0.149	2.69	2.60	1.43	0.48	7.21	2.78	3.19	13.20
Disk & Incorporate	20'	MFWD 190	44,500	180	10	0.092	1.24	2.35	1.37	0.50	5.47	2.67	3.49	11.63
Disk & Incorporate	24'	MFWD 190	50,000	200	10	0.087	1.57	2.21	1.30	0.47	5.58	2.55	3.29	11.42
Disk & Incorporate	28'	MFWD 225	59,200	200	10	0.074	1.34	2.25	1.32	0.44	5.37	2.58	3.08	11.05
Disk & Incorporate	32'	MFWD 225	66,000	200	10	0.065	1.18	1.97	1.29	0.39	4.84	2.52	2.69	10.06
Disk Harrow	14'	2WD 130	24,600	180	10	0.140	1.89	2.44	0.95	0.45	5.74	2.24	2.99	10.98
Disk Harrow	20'	MFWD 190	39,200	180	10	0.098	1.32	2.49	1.06	0.53	5.43	2.49	3.70	11.63
Disk Harrow	24'	MFWD 190	42,700	180	10	0.081	1.10	2.08	0.97	0.44	4.60	2.26	3.09	9.96
Disk Harrow	28'	MFWD 225	52,000	180	10	0.070	0.94	2.11	1.01	0.41	4.49	2.36	2.89	9.75
Disk Harrow	32'	MFWD 225	58,700	180	10	0.061	0.82	1.84	1.00	0.36	4.04	2.33	2.53	8.91
Disk Harrow	42'	MFWD 225	104,000	180	10	0.046	0.63	1.40	1.35	0.27	3.67	3.15	1.92	8.75
Disk Harrow 40-100hp	14'	2WD 75	15,000	180	10	0.140	1.89	1.40	0.58	0.16	4.05	1.36	1.12	6.54
Disk Heavy	14'	MFWD 150	31,900	180	10	0.145	1.97	2.92	1.29	0.59	6.78	3.02	3.93	13.74
Disk Heavy	20'	MFWD 190	39,200	180	10	0.097	1.31	2.47	1.05	0.53	5.38	2.47	3.67	11.53
Disk Heavy	28'	MFWD 225	52,000	180	10	0.075	1.02	2.27	1.09	0.45	4.84	2.55	3.11	10.52
Disk Ripper	15'	MFWD 225	45,200	180	10	0.136	1.84	4.10	1.71	0.81	8.46	3.99	5.61	18.07
Ditcher		2WD 130	5,700	200	10	0.020	0.27	0.34	0.04	0.06	0.72	0.06	0.42	1.22
Ditcher (1m/160a)		2WD 130	5,700	200	10	0.009	0.12	0.16	0.02	0.03	0.34	0.03	0.20	0.57
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	2.79	3.10	1.33	0.62	7.85	1.65	4.17	13.68
Fert Appl (Liquid)	6R-30	MFWD 170	16,700	150	8	0.130	2.36	2.97	1.45	0.60	7.40	1.81	4.18	13.40
Fert Appl (Liquid)	6R-38	MFWD 170	16,100	150	8	0.103	1.86	2.35	1.10	0.47	5.80	1.38	3.30	10.48
Fert Appl (Liquid)	8R-30	MFWD 190	16,900	150	8	0.098	1.77	2.49	1.10	0.53	5.91	1.37	3.70	11.00
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.40	1.97	0.98	0.42	4.78	1.22	2.93	8.94
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	20,300	150	8	0.051	0.93	1.31	0.69	0.28	3.22	0.87	1.95	6.05
Fert Appl (Liquid)	12R-30	MFWD 225	22,600	150	8	0.078	1.41	2.36	1.18	0.46	5.43	1.47	3.23	10.14
Fert Appl (Liquid)	12R-38	MFWD 225	19,900	150	8	0.051	0.93	1.55	0.68	0.30	3.48	0.85	2.13	6.46
Field Cult & Inc	42'	MFWD 225	69,400	100	10	0.037	0.68	1.13	0.65	0.22	2.69	3.06	1.55	7.32
Field Cult & Inc	50'	MFWD 225	81,500	100	10	0.031	0.57	0.95	0.64	0.18	2.36	3.02	1.30	6.69
Field Cult & Inc Fld	24'	MFWD 170	34,000	100	10	0.066	1.19	1.50	0.56	0.30	3.56	2.62	2.11	8.30
Field Cult & Inc Fld	32'	MFWD 190	48,700	100	10	0.049	0.89	1.26	0.60	0.27	3.02	2.82	1.87	7.72
Field Cult & Inc Rdg	12'	2WD 150	15,800	100	10	0.132	2.38	2.65	0.52	0.45	6.01	2.44	2.99	11.44
Field Cultivate Fld	24'	MFWD 170	28,600	100	10	0.062	0.84	1.41	0.44	0.28	2.98	2.07	1.98	7.05
Field Cultivate Fld	32'	MFWD 190	43,300	100	10	0.046	0.63	1.18	0.50	0.25	2.57	2.36	1.76	6.70
Field Cultivate Fld	42'	MFWD 225	60,700	100	10	0.035	0.48	1.07	0.53	0.21	2.30	2.52	1.46	6.28
Field Cultivate Fld	50'	MFWD 225	65,900	100	10	0.029	0.40	0.89	0.49	0.17	1.97	2.29	1.23	5.50
Field Cultivate Rdg	12'	2WD 150	10,400	100	10	0.124	1.68	2.49	0.32	0.42	4.92	1.51	2.81	9.25
Grain Cart Corn	500 bu	MFWD 190	25,700	200	12	0.025	0.34	0.64	0.17	0.13	1.29	0.34	0.95	2.59
Grain Cart Corn	700 bu	MFWD 190	37,300	200	12	0.025	0.34	0.64	0.25	0.13	1.37	0.49	0.95	2.83
Grain Cart Corn	1000 bu	MFWD 225	46,900	200	12	0.025	0.34	0.76	0.32	0.15	1.57	0.62	1.04	3.24
Grain Cart Rice	500 bu	MFWD 190	25,700	200	12	0.062	0.84	1.58	0.43	0.34	3.21	0.84	2.36	6.41
Grain Cart Rice	700 bu	MFWD 190	37,300	200	12	0.055	0.74	1.39	0.55	0.30	2.99	1.08	2.07	6.15
Grain Cart Rice	1000 bu	MFWD 190	46,900	200	12	0.045	0.61	1.16	0.58	0.25	2.61	1.13	1.73	5.48
Grain Cart Soybean	500 bu	MFWD 190	25,700	200	12	0.025	0.34	0.64	0.17	0.13	1.30	0.34	0.96	2.61
Grain Cart Soybean	700 bu	MFWD 190	37,300	200	12	0.021	0.28	0.54	0.21	0.11	1.15	0.41	0.80	2.37
Grain Cart Soybean	1000 bu	MFWD 190	46,900	200	12	0.021	0.28	0.54	0.26	0.11	1.21	0.52	0.80	2.54
Grain Cart Wht/Sor	500 bu	MFWD 190	25,700	200	12	0.025	0.34	0.64	0.17	0.13	1.30	0.34	0.96	2.61
Grain Cart Wht/Sor	700 bu	MFWD 190	37,300	200	12	0.021	0.28	0.54	0.21	0.11	1.15	0.41	0.80	2.37
Grain Cart Wht/Sor	1000 bu	MFWD 190	46,900	200	12	0.021	0.28	0.54	0.26	0.11	1.21	0.52	0.80	2.54
Grain Drill	10'	2WD 130	26,700	150	8	0.188	4.25	3.28	1.88	0.60	10.03	4.01	4.03	18.07
Grain Drill	12'	2WD 130	26,800	150	8	0.157	3.54	2.73	1.57	0.50	8.36	3.35	3.35	15.08
Grain Drill	15'	MFWD 150	32,600	150	8	0.125	2.83	2.52	1.53	0.51	7.40	3.26	3.39	14.06
Grain Drill	20'	MFWD 170	38,800	150	8	0.094	2.12	2.14	1.37	0.43	6.08	2.91	3.01	12.00
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.77	1.99	1.93	0.42	6.13	4.10	2.96	13.21
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.41	1.89	1.50	0.37	5.19	3.19	2.59	10.97
Grain Drill	35'	MFWD 225	91,000	150	8	0.053	1.21	1.62	1.83	0.32	4.99	3.90	2.22	11.12
Grain Drill & Pre	10'	2WD 130	33,900	150	8	0.203	4.58	3.53	2.58	0.65	11.35	5.48	4.34	21.18
Grain Drill & Pre	12'	2WD 130	34,100	150	8	0.169	3.81	2.94	2.16	0.54	9.47	4.60	3.61	17.69
Grain Drill & Pre	15'	MFWD 150	39,900	150	8	0.135	3.05	2.71	2.02	0.54	8.34	4.30	3.65	16.30
Grain Drill & Pre	20'	MFWD 170	46,000	150	8	0.101	2.29	2.31	1.75	0.46	6.82	3.72	3.24	13.79
Grain Drill & Pre	24'	MFWD 190	71,000	150	8	0.084	1.90	2.15	2.25	0.46	6.77	4.78	3.19	14.76
Grain Drill & Pre	30'	MFWD 225	71,000	150	8	0.067	1.52	2.03	1.80	0.40	5.77	3.83	2.79	12.39
Grain Drill & Pre	35'	MFWD 225	98,200	150	8	0.058	1.30	1.74	2.13	0.34	5.53	4.54	2.39	12.47
Grain Drill & Pre T	8R-38	MFWD 225	51,800	150	8	0.062	1.41	1.89	1.22	0.37	4.90	2.59	2.59	10.09
Harrow - Rigid	21'	2WD 150	6,750	200	10	0.073	0.99	1.48	0.17	0.25	2.91	0.29	1.67	4.87
Harrow - Folding	24'	MFWD 190	15,800	200	10	0.064	0.87	1.64	0.35	0.35	3.23	0.59	2.44	6.27
Harrow - Folding	30'	MFWD 190	17,700	200	10	0.051	0.69	1.31	0.32	0.28	2.61	0.53	1.95	5.10
Harrow - Folding	40'	MFWD 190	20,200	200	10	0.038	0.52	0.98	0.27	0.21	1.99	0.45	1.46	3.92
Harrow - Folding	48'	MFWD 225	23,700	200	10	0.032	0.43	0.97	0.26	0.19	1.87	0.44	1.33	3.65
Harrow - Rigid	13'	2WD 130	4,950	200	10	0.119	1.61	2.07	0.20	0.38	4.28	0.34	2.55	7.18
Header - Corn	6R-30	265 hp	48,500	300	8	0.170	2.30	6.03	2.06	6.01	16.41	3.42	25.87	45.71
Header - Corn	6R-38	265 hp	48,800	300	8	0.134	1.81	4.76	1.64	4.74	12.97	2.72	20.42	36.12
Header - Corn	8R-30	265 hp	62,300	300	8	0.127	1.72	4.52	1.98	4.50	12.75	3.30	19.40	35.46
Header - Corn	8R-38	325 hp	63,000	300	8	0.100	1.36	4.39	1.59	3.80	11.15	2.64	16.38	30.17
Header - Corn	12R-20	325 hp	95,600	300	8	0.127	1.72	5.55	3.05	4.81	15.14	5.06	20.72	40.93

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Header - Corn	12R-30	325 hp	98,200	300	8	0.085	1.15	3.70	2.09	3.21	10.15	3.47	13.81	27.43
Header - Draper (CL)	25' Rigid	265 hp	60,300	300	8	0.203	2.74	7.20	2.80	7.17	19.92	4.88	30.85	55.66
Header - Draper (CL)	30' Rigid	325 hp	70,600	300	8	0.169	2.28	7.36	2.73	6.38	18.76	4.76	27.45	50.98
Header - Draper (CL)	36' Rigid	355 hp	74,100	300	8	0.141	1.90	6.69	2.39	5.74	16.74	4.16	24.71	45.62
Header - Draper (CL)	40' Rigid	425 hp	79,500	30	8	0.126	1.71	7.21	23.12	5.44	37.50	40.21	23.43	101.16
Header - Draper (SL)	25' Rigid	325 hp	60,300	300	8	0.176	2.37	7.65	2.43	6.63	19.10	4.23	28.55	51.88
Header - Draper (SL)	30' Rigid	325 hp	70,600	300	8	0.146	1.98	6.37	2.37	5.53	16.26	4.12	23.79	44.19
Header - Draper (SL)	36' Rigid	355 hp	74,100	300	8	0.122	1.65	5.80	2.07	4.97	14.51	3.60	21.41	39.53
Header - Drapper	40' Rigid	425 hp	79,500	30	8	0.110	1.48	6.25	20.04	4.72	32.50	34.85	20.31	87.67
Header -RiceStrp(CL)	20'	265 hp	50,000	300	8	0.253	3.42	9.00	3.17	8.96	24.56	5.26	38.57	68.41
Header -RiceStrp(CL)	24'	325 hp	55,400	300	8	0.211	2.85	9.20	2.92	7.97	22.96	4.86	34.32	62.15
Header -RiceStrp(CL)	32'	325 hp	60,800	300	8	0.158	2.14	6.90	2.41	5.98	17.43	4.00	25.74	47.18
Header -RiceStrp(SL)	20'	265 hp	50,000	300	8	0.220	2.97	7.80	2.75	7.76	21.29	4.56	33.42	59.28
Header -RiceStrp(SL)	24'	325 hp	55,400	300	8	0.183	2.47	7.97	2.53	6.91	19.90	4.21	29.74	53.86
Header -RiceStrp(SL)	32'	325 hp	60,800	300	8	0.137	1.85	5.98	2.09	5.18	15.11	3.47	22.31	40.89
Header -Soybean	22' Flex	265 hp	32,600	300	8	0.116	1.56	4.11	0.94	4.09	10.73	1.57	17.64	29.94
Header -Soybean	25' Flex	325 hp	35,000	300	8	0.102	1.38	4.44	0.89	3.85	10.57	1.48	16.57	28.63
Header -Soybean	30' Flex	325 hp	40,900	300	8	0.085	1.15	3.70	0.87	3.21	8.93	1.44	13.81	24.19
Header -Soybean	35' Flex	355 hp	47,000	300	8	0.072	0.98	3.46	0.85	2.97	8.28	1.42	12.79	22.49
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.56	4.11	0.57	4.09	10.36	0.95	17.64	28.95
Header Wheat/Sorghum	25' Rigid	325 hp	21,000	300	8	0.102	1.38	4.44	0.53	3.85	10.21	0.89	16.57	27.68
Header Wheat/Sorghum	30' Rigid	325 hp	25,700	300	8	0.085	1.15	3.70	0.54	3.21	8.61	0.90	13.81	23.33
Land Plane	50'x16'	MFWD 190	14,300	200	10	0.151	2.04	3.85	0.43	0.82	7.16	1.26	5.72	14.16
Levee Pull & Seed	8 Blade	MFWD 170	10,400	100	10	0.003	0.04	0.08	0.00	0.01	0.15	0.04	0.11	0.31
Levee Pull (1m/80a)	8 blade	MFWD 170	7,180	100	10	0.003	0.04	0.08	0.00	0.01	0.15	0.02	0.11	0.29
Levee Splitter (1/80)	32"	MFWD 150	7,180	100	10	0.004	0.05	0.08	0.00	0.01	0.16	0.03	0.11	0.31
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	5.81	6.55	2.23	1.40	16.01	5.06	9.73	30.81
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	5.81	6.55	2.23	1.40	16.01	5.06	9.73	30.81
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	3.88	4.38	1.49	0.94	10.70	3.38	6.50	20.59
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	4.92	5.54	1.89	1.19	13.56	4.28	8.24	26.09
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	3.88	4.38	1.49	0.94	10.70	3.38	6.50	20.59
NT Grain Drill	10'	2WD 130	34,100	150	8	0.235	5.31	4.10	3.01	0.75	13.19	6.40	5.03	24.64
NT Grain Drill	12'	2WD 130	47,900	150	8	0.163	3.69	2.84	2.94	0.52	10.00	6.25	3.49	19.75
NT Grain Drill	15'	MFWD 150	55,200	150	8	0.130	2.95	2.62	2.71	0.53	8.82	5.76	3.53	18.12
NT Grain Drill	20'	MFWD 170	71,200	150	8	0.098	2.21	2.23	2.62	0.45	7.52	5.57	3.13	16.23
NT Grain Drill	24'	MFWD 190	90,400	150	8	0.081	1.84	2.08	2.77	0.44	7.15	5.89	3.09	16.14
NT Grain Drill	30'	MFWD 225	103,000	150	8	0.065	1.47	1.97	2.52	0.39	6.36	5.37	2.69	14.44
NT Grain Drill & Pre	10'	2WD 130	41,400	150	8	0.211	4.77	3.68	3.28	0.68	12.41	6.98	4.52	23.92
NT Grain Drill & Pre	12'	2WD 130	55,200	150	8	0.176	3.97	3.06	3.64	0.56	11.26	7.75	3.76	22.78
NT Grain Drill & Pre	15'	MFWD 150	62,400	150	8	0.141	3.18	2.83	3.30	0.57	9.88	7.01	3.80	20.70
NT Grain Drill & Pre	20'	MFWD 170	78,400	150	8	0.105	2.38	2.40	3.10	0.48	8.39	6.61	3.37	18.38
NT Grain Drill & Pre	24'	MFWD 190	97,700	150	8	0.088	1.98	2.24	3.22	0.48	7.94	6.86	3.32	18.13
NT Grain Drill & Pre	30'	MFWD 225	111,000	150	8	0.070	1.59	2.12	2.93	0.42	7.07	6.23	2.90	16.21
NT Plant&Pre-Folding	8R-38	MFWD 170	65,000	150	8	0.083	1.88	1.90	2.03	0.38	6.21	4.33	2.67	13.21
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	102,000	150	8	0.055	1.25	1.26	2.12	0.25	4.90	4.52	1.77	11.21
NT Plant&Pre-Folding	12R-20	MFWD 190	78,300	150	8	0.105	2.38	2.68	3.10	0.57	8.76	6.60	3.99	19.35
NT Plant&Pre-Folding	12R-30	MFWD 190	87,500	150	8	0.070	1.59	1.79	2.31	0.38	6.08	4.91	2.66	13.66
NT Plant&Pre-Folding	12R-38	MFWD 190	102,000	150	8	0.055	1.25	1.41	2.12	0.30	5.10	4.52	2.10	11.73
NT Plant&Pre-Folding	16R-30	MFWD 190	130,000	150	8	0.052	1.19	1.34	2.57	0.28	5.40	5.48	1.99	12.88
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.65	1.86	4.48	0.40	8.41	9.54	2.77	20.73
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.19	1.34	3.60	0.28	6.43	7.67	1.99	16.10
NT Plant&Pre-Folding	24R-30	MFWD 190	200,000	150	8	0.035	0.79	0.89	2.64	0.19	4.52	5.62	1.33	11.48
NT Plant&Pre-Folding	31R-15	MFWD 225	194,000	150	8	0.054	1.23	1.64	3.97	0.32	7.18	8.45	2.25	17.88
NT Plant&Pre-Folding	32R-15	MFWD 225	210,000	150	8	0.052	1.19	1.59	4.16	0.31	7.26	8.85	2.18	18.29
NT Plant&Pre-Rigid	4R-30	2WD 130	29,300	150	8	0.211	4.77	3.68	2.32	0.68	11.45	4.94	4.52	20.92
NT Plant&Pre-Rigid	4R-38	2WD 130	35,200	150	8	0.166	3.75	2.89	2.19	0.53	9.39	4.67	3.56	17.62
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,100	150	8	0.141	3.18	2.83	2.27	0.57	8.86	4.84	3.80	17.51
NT Plant&Pre-Rigid	6R-38	MFWD 150	41,800	150	8	0.111	2.51	2.23	1.74	0.45	6.94	3.71	3.00	13.66
NT Plant&Pre-Rigid	8R-30	MFWD 170	53,100	150	8	0.105	2.38	2.40	2.10	0.48	7.38	4.47	3.37	15.24
NT Plant&Pre-Rigid	8R-38	MFWD 170	50,600	150	8	0.083	1.88	1.90	1.58	0.38	5.76	3.37	2.67	11.80
NT Plant&Pre-Rigid	11R-15	MFWD 170	63,500	150	8	0.143	3.24	3.27	3.42	0.66	10.61	7.28	4.59	22.49
NT Plant&Pre-Rigid	11R-20	MFWD 170	62,300	150	8	0.115	2.60	2.62	2.70	0.53	8.47	5.74	3.69	17.90
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,000	150	8	0.105	2.38	2.68	2.57	0.57	8.23	5.48	3.99	17.70
NT Plant&Pre-Rigid	12R-30	MFWD 190	79,300	150	8	0.070	1.59	1.79	2.09	0.38	5.86	4.45	2.66	12.98
NT Plant&Pre-Rigid	15R-15	MFWD 190	80,900	150	8	0.113	2.55	2.87	3.43	0.61	9.47	7.29	4.27	21.04
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	148,000	150	8	0.055	1.25	1.67	3.08	0.33	6.35	6.56	2.29	15.21
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.083	1.88	2.51	3.79	0.49	8.69	8.06	3.44	20.20
NT Plant-Folding	8R-38	MFWD 170	57,800	150	8	0.077	1.75	1.76	1.68	0.35	5.56	3.57	2.48	11.61
NT Plant-Folding	8R-38 2x1	MFWD 170	93,000	150	8	0.051	1.16	1.17	1.80	0.23	4.38	3.83	1.65	9.86
NT Plant-Folding	12R-20	MFWD 190	71,100	150	8	0.098	2.21	2.49	2.61	0.53	7.86	5.56	3.70	17.14
NT Plant-Folding	12R-30	MFWD 190	78,900	150	8	0.065	1.47	1.66	1.93	0.35	5.43	4.11	2.47	12.03
NT Plant-Folding	12R-38	MFWD 190	93,000	150	8	0.051	1.16	1.31	1.80	0.28	4.56	3.83	1.95	10.35
NT Plant-Folding	16R-30	MFWD 190	122,000	150	8	0.049	1.10	1.24	2.24	0.26	4.87	4.77	1.85	11.50
NT Plant-Folding	23R-15	MFWD 190	155,000	150	8	0.068	1.53	1.73	3.96	0.37	7.61	8.42	2.57	18.61
NT Plant-Folding	24R-20	MFWD 190	174,000	150	8	0.049	1.10	1.24	3.20	0.26	5.83	6.81	1.85	14.49
NT Plant-Folding	24R-30	MFWD 190	184,000	150	8	0.032	0.73	0.83	2.25	0.17	4.00	4.80	1.23	10.04
NT Plant-Folding	31R-15	MFWD 225	185,000	150	8	0.050	1.14	1.52	3.52	0.30	6.49	7.48	2.09	16.07
NT Plant-Folding	32R-15	MFWD 225	201,000	150	8	0.049	1.10	1.47	3.70	0.29	6.58	7.86	2.02	16.47
NT Plant-Rigid	4R-30	2WD 130	22,100	150	8	0.196	4.43	3.41	1.62	0.63	10.11	3.46	4.19	17.77
NT Plant-Rigid	4R-38	2WD 130	27,900	150	8	0.154	3.49	2.69	1.61	0.49	8.29	3.44	3.30	15.04

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp.	P.U.	Total Direct	--Fixed-- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant-Rigid	6R-30	MFWD 150	35,800	150	8	0.130	2.95	2.62	1.75	0.53	7.87	3.73	3.53	15.14
NT Plant-Rigid	6R-38	MFWD 150	34,500	150	8	0.103	2.33	2.07	1.33	0.41	6.16	2.84	2.78	11.79
NT Plant-Rigid	8R-30	MFWD 170	45,800	150	8	0.098	2.21	2.23	1.68	0.45	6.59	3.58	3.13	13.31
NT Plant-Rigid	8R-38	MFWD 170	43,300	150	8	0.077	1.75	1.76	1.26	0.35	5.13	2.68	2.48	10.29
NT Plant-Rigid	11R-15	MFWD 170	56,200	150	8	0.133	3.01	3.03	2.81	0.61	9.48	5.98	4.26	19.74
NT Plant-Rigid	11R-20	MFWD 170	55,000	150	8	0.107	2.42	2.44	2.21	0.49	7.57	4.70	3.42	15.71
NT Plant-Rigid	12R-20	MFWD 190	57,800	150	8	0.098	2.21	2.49	2.12	0.53	7.37	4.52	3.70	15.61
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.47	1.66	1.73	0.35	5.23	3.69	2.47	11.40
NT Plant-Rigid	15R-15	MFWD 190	72,300	150	8	0.105	2.37	2.67	2.84	0.57	8.46	6.05	3.96	18.48
NT Plant-TwinRow	12R-30/40	MFWD 225	139,000	150	8	0.051	1.16	1.55	2.69	0.30	5.72	5.72	2.13	13.58
NT Plant-TwinRow	8R-30/40	MFWD 225	114,000	150	8	0.077	1.75	2.33	3.31	0.46	7.87	7.05	3.20	18.12
Peanut Cond.& Lifter	6-Row	MFWD 190	13,300	300	20	0.100	1.35	2.54	0.22	0.54	4.66	0.37	3.77	8.81
Peanut Conditioner	6-Row	MFWD 190	15,300	300	20	0.100	1.35	2.54	0.30	0.54	4.74	0.39	3.77	8.92
Peanut Dig/Invertor	4R-30	MFWD 190	29,800	300	15	0.235	3.18	5.99	1.74	1.28	12.22	2.34	8.90	23.47
Peanut Dig/Invertor	4R-38	MFWD 190	29,800	300	15	0.186	2.51	4.73	1.38	1.01	9.65	1.85	7.03	18.53
Peanut Dig/Invertor	6R-38	MFWD 190	43,400	300	15	0.124	1.67	3.15	0.94	0.67	6.45	1.79	4.68	12.93
Peanut Dump Cart	6-Row	MFWD 190	48,500	300	20	0.310	4.18	7.88	0.87	1.69	14.64	4.16	11.70	30.51
Peanut Harvester	4R-30	MFWD 225	137,000	300	20	0.849	11.48	25.59	6.59	5.07	48.75	30.22	35.04	114.02
Peanut Harvester	4R-38	MFWD 225	137,000	300	20	0.934	12.62	28.14	7.25	5.57	53.60	34.33	38.52	126.46
Peanut Harvester	6R-38	MFWD 225	151,000	300	20	0.625	8.44	18.81	4.56	3.73	35.55	25.30	25.76	86.63
Peanut Lifter	6-Row	MFWD 225	6,500	300	20	0.100	1.35	3.01	0.13	0.59	5.09	0.16	4.12	9.38
Peanut Plt&Pre Fold.	12R-38	MFWD 190	91,000	150	8	0.080	1.81	2.04	2.74	0.43	7.04	5.83	3.03	15.91
Peanut Plt&Pre Rigid	8R-30	MFWD 190	46,000	150	8	0.152	3.44	3.88	2.63	0.83	10.80	5.60	5.77	22.17
Peanut Plt&Pre Rigid	8R-38	MFWD 190	43,400	150	8	0.120	2.72	3.07	1.96	0.66	8.42	4.17	4.56	17.16
Pipe Spool 160ac	1/4m roll	2WD 130	3,600	15	12	0.003	0.09	0.05	0.00	0.01	0.16	0.07	0.06	0.31
Pipe Trailer 1m/160a	30'	2WD 130	1,380	100	15	0.003	0.18	0.06	0.00	0.01	0.26	0.00	0.08	0.35
Plant & Pre-Folding	8R-38	MFWD 170	57,900	150	8	0.080	1.81	1.82	1.74	0.37	5.75	3.70	2.56	12.02
Plant & Pre-Folding	8R-38 2x1	MFWD 170	91,000	150	8	0.053	1.20	1.21	1.82	0.24	4.49	3.87	1.70	10.07
Plant & Pre-Folding	12R-20	MFWD 190	67,600	150	8	0.101	2.29	2.58	2.57	0.55	8.00	5.47	3.83	17.31
Plant & Pre-Folding	12R-30	MFWD 190	76,800	150	8	0.067	1.52	1.72	1.94	0.37	5.56	4.14	2.55	12.26
Plant & Pre-Folding	12R-38	MFWD 190	91,000	150	8	0.053	1.20	1.35	1.82	0.29	4.68	3.87	2.01	10.57
Plant & Pre-Folding	16R-30	MFWD 190	116,000	150	8	0.050	1.14	1.29	2.20	0.27	4.92	4.69	1.91	11.53
Plant & Pre-Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.59	1.79	3.78	0.38	7.55	8.03	2.66	18.25
Plant & Pre-Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.14	1.29	3.06	0.27	5.77	6.51	1.91	14.21
Plant & Pre-Folding	24R-30	MFWD 190	178,000	150	8	0.033	0.76	0.86	2.25	0.18	4.06	4.80	1.27	10.15
Plant & Pre-Folding	31R-15	MFWD 225	166,000	150	8	0.052	1.18	1.57	3.26	0.31	6.34	6.94	2.16	15.45
Plant & Pre-Folding	32R-15	MFWD 225	181,000	150	8	0.050	1.14	1.52	3.44	0.30	6.42	7.32	2.09	15.84
Plant & Pre-Rigid	4R-30	2WD 130	25,800	150	8	0.203	4.58	3.53	1.96	0.65	10.73	4.17	4.34	19.25
Plant & Pre-Rigid	4R-38	2WD 130	31,600	150	8	0.159	3.60	2.78	1.89	0.51	8.80	4.02	3.41	16.24
Plant & Pre-Rigid	6R-30	MFWD 150	25,900	150	8	0.135	3.05	2.71	1.31	0.54	7.63	2.79	3.65	14.08
Plant & Pre-Rigid	6R-38	MFWD 150	36,400	150	8	0.106	2.41	2.14	1.45	0.43	6.45	3.10	2.88	12.43
Plant & Pre-Rigid	8R-30	MFWD 170	46,000	150	8	0.101	2.29	2.31	1.75	0.46	6.82	3.72	3.24	13.79
Plant & Pre-Rigid	8R-38	MFWD 170	43,400	150	8	0.080	1.81	1.82	1.30	0.37	5.31	2.77	2.56	10.65
Plant & Pre-Rigid	11R-15	MFWD 170	53,700	150	8	0.148	3.34	3.37	2.98	0.68	10.38	6.34	4.73	21.46
Plant & Pre-Rigid	11R-20	MFWD 170	52,500	150	8	0.110	2.50	2.52	2.18	0.51	7.72	4.64	3.54	15.91
Plant & Pre-Rigid	12R-20	MFWD 190	54,300	150	8	0.101	2.29	2.58	2.06	0.55	7.49	4.39	3.83	15.72
Plant & Pre-Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.52	1.72	1.74	0.37	5.36	3.70	2.55	11.61
Plant & Pre-Rigid	15R-15	MFWD 190	67,500	150	8	0.108	2.45	2.76	2.74	0.59	8.55	5.84	4.10	18.50
Plant & Pre-TwinRow	12R-30/40	MFWD 225	137,000	150	8	0.053	1.20	1.60	2.74	0.31	5.87	5.83	2.20	13.91
Plant & Pre-TwinRow	8R-30/40	MFWD 225	114,000	150	8	0.080	1.81	2.41	3.43	0.47	8.13	7.29	3.30	18.74
Plant - Folding	8R-38	MFWD 170	50,600	150	8	0.074	1.68	1.69	1.41	0.34	5.13	3.00	2.38	10.52
Plant - Folding	8R-38 2x1	MFWD 170	82,300	150	8	0.049	1.11	1.12	1.53	0.22	4.00	3.25	1.58	8.85
Plant - Folding	12R-20	MFWD 190	60,400	150	8	0.094	2.12	2.39	2.13	0.51	7.17	4.54	3.56	15.27
Plant - Folding	12R-30	MFWD 190	68,200	150	8	0.062	1.41	1.59	1.60	0.34	4.96	3.41	2.37	10.76
Plant - Folding	12R-38	MFWD 190	82,300	150	8	0.049	1.11	1.26	1.53	0.27	4.18	3.25	1.87	9.31
Plant - Folding	16R-30	MFWD 190	10,700	150	8	0.047	1.06	1.19	0.18	0.25	2.70	0.40	1.78	4.89
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.47	1.66	3.29	0.35	6.79	6.99	2.47	16.25
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	1.06	1.19	2.68	0.25	5.20	5.71	1.78	12.70
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.70	0.79	2.09	0.17	3.77	4.45	1.18	9.42
Plant - Folding	31R-15	MFWD 225	157,000	150	8	0.048	1.09	1.46	2.86	0.29	5.72	6.09	2.00	13.83
Plant - Folding	32R-15	MFWD 225	173,000	150	8	0.047	1.06	1.41	3.05	0.28	5.82	6.50	1.94	14.26
Plant - Rigid	4R-30	2WD 130	18,500	150	8	0.188	4.25	3.28	1.30	0.60	9.45	2.78	4.03	16.26
Plant - Rigid	4R-38	2WD 130	24,300	150	8	0.148	3.35	2.58	1.35	0.47	7.76	2.87	3.17	13.81
Plant - Rigid	6R-30	MFWD 150	30,500	150	8	0.125	2.83	2.52	1.43	0.51	7.30	3.05	3.39	13.75
Plant - Rigid	6R-38	MFWD 150	29,200	150	8	0.099	2.24	1.99	1.08	0.40	5.72	2.31	2.67	10.71
Plant - Rigid	8R-30	MFWD 170	38,700	150	8	0.094	2.12	2.14	1.36	0.43	6.07	2.90	3.01	11.99
Plant - Rigid	8R-38	MFWD 170	36,200	150	8	0.074	1.68	1.69	1.01	0.34	4.73	2.15	2.38	9.26
Plant - Rigid	11R-15	MFWD 170	46,400	150	8	0.137	3.10	3.13	2.39	0.63	9.26	5.09	4.39	18.75
Plant - Rigid	11R-20	MFWD 170	45,200	150	8	0.103	2.32	2.34	1.74	0.47	6.89	3.71	3.29	13.89
Plant - Rigid	12R-20	MFWD 190	47,100	150	8	0.094	2.12	2.39	1.66	0.51	6.70	3.54	3.56	13.80
Plant - Rigid	12R-30	MFWD 190	59,900	150	8	0.062	1.41	1.59	1.41	0.34	4.77	3.00	2.37	10.14
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	2.12	1.89	2.08	0.32	6.42	4.42	2.13	12.98
Plant - TwinRow	12R-30/40	MFWD 225	128,000	150	8	0.049	1.11	1.49	2.38	0.29	5.29	5.06	2.04	12.40
Plant - TwinRow	8R-30/40	MFWD 225	107,000	150	8	0.074	1.68	2.24	2.99	0.44	7.36	6.35	3.07	16.79
Roller/Cultipacker	12'	2WD 130	6,910	300	12	0.124	1.68	2.16	0.20	0.40	4.44	0.31	2.66	7.41
Roller/Cultipacker	20'	MFWD 150	17,000	300	12	0.074	1.00	1.49	0.29	0.30	3.11	0.45	2.01	5.58
Roller/Cultipacker	30'	MFWD 170	19,100	300	12	0.049	0.67	1.13	0.22	0.23	2.25	0.34	1.58	4.19
Roller/Cultipacker	38'	MFWD 225	21,300	300	12	0.039	0.53	1.18	0.19	0.23	2.14	0.30	1.62	4.06
Roller/Stubble	20'	2WD 50	13,500	300	12	0.074	1.00	0.49	0.23	0.05	1.79	0.36	0.35	2.51
Roller/Stubble	32'	MFWD 225	22,800	300	12	0.046	0.63	1.40	0.25	0.27	2.56	0.38	1.92	4.87

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2019 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Rotary Cutter	7'	MFWD 130	5,245	185	10	0.168	2.27	2.92	0.71	0.59	6.51	0.55	3.98	11.06
Rotary Cutter	12'	2WD 150	11,500	185	10	0.098	1.32	1.97	0.91	0.33	4.54	0.71	2.22	7.48
Rotary Cutter-Flex	15'	MFWD 150	21,100	185	10	0.078	1.06	1.57	1.34	0.31	4.30	1.04	2.12	7.46
Rotary Cutter-Flex	20'	MFWD 150	29,300	185	10	0.058	0.79	1.18	1.39	0.23	3.61	1.09	1.59	6.29
Row Cond & Inc-Fold.	26'	MFWD 190	26,600	100	10	0.063	1.14	1.61	0.42	0.34	3.52	1.97	2.39	7.89
Row Cond & Inc-Fold.	38'	MFWD 225	33,800	100	10	0.043	0.78	1.30	0.36	0.25	2.71	1.71	1.79	6.22
Row Cond & Inc-Rigid	13'	2WD 130	16,800	100	10	0.126	2.28	2.20	0.53	0.40	5.43	2.49	2.71	10.64
Row Cond & Inc-Rigid	21'	2WD 170	20,700	100	10	0.078	1.41	1.78	0.40	0.29	3.90	1.90	2.01	7.82
Row Cond & Inc-Rigid	26'	MFWD 190	23,400	100	10	0.026	0.48	0.67	0.15	0.14	1.45	0.72	1.00	3.19
Row Cond Folding	26'	MFWD 225	19,300	100	10	0.059	0.80	1.79	0.28	0.35	3.25	1.34	2.46	7.05
Row Cond Folding	38'	MFWD 225	25,800	100	10	0.040	0.55	1.23	0.26	0.24	2.29	1.23	1.68	5.20
Row Cond Rigid	13'	2WD 130	9,540	100	10	0.119	1.61	2.07	0.28	0.38	4.36	1.33	2.55	8.24
Row Cond Rigid	21'	2WD 170	13,400	100	10	0.073	0.99	1.68	0.24	0.27	3.20	1.15	1.89	6.26
Row Cond Rigid	26'	MFWD 190	16,200	100	10	0.059	0.80	1.51	0.24	0.32	2.89	1.13	2.25	6.28
Row Cond./Roll-Fol	30'	MFWD 190	35,600	160	10	0.062	0.84	1.58	0.55	0.34	3.33	1.62	2.36	7.31
Row Cond./Roll-Fold.	26'	MFWD 190	26,800	160	10	0.072	0.97	1.83	0.48	0.39	3.68	1.41	2.72	7.82
Row Cond./Roll-Fold.	40'	MFWD 225	23,700	160	10	0.046	0.63	1.41	0.27	0.27	2.60	0.81	1.93	5.34
Row Cond./Roll-Rig	21'	MFWD 190	23,000	160	10	0.089	1.20	2.27	0.51	0.48	4.47	1.50	3.37	9.35
Row Cond./Roll-Rig	26'	MFWD 190	25,800	160	10	0.072	0.97	1.83	0.46	0.39	3.66	1.35	2.72	7.75
Spin Spreader	5 ton	MFWD 190	12,400	100	8	0.042	0.94	1.07	0.29	0.23	2.54	0.65	1.58	4.78
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	4.69	0.45	0.08	0.49	5.73	0.11	2.13	7.98
Spray (ATV)	20'	800 CC	1,700	200	8	0.084	1.52	0.14	0.06	0.16	1.90	0.08	0.69	2.68
Spray (Band)	27' Fold	MFWD 170	7,270	200	8	0.062	1.13	1.42	0.21	0.28	3.06	0.28	2.00	5.34
Spray (Band)	40' Fold	MFWD 170	8,630	200	8	0.042	0.76	0.96	0.17	0.19	2.09	0.22	1.35	3.67
Spray (Band)	50' Fold	MFWD 170	13,700	200	8	0.033	0.61	0.77	0.21	0.15	1.75	0.28	1.08	3.12
Spray (Band)	60' Fold	MFWD 170	15,600	200	8	0.028	0.50	0.64	0.20	0.13	1.48	0.27	0.90	2.66
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,760	200	8	0.130	2.34	2.61	0.41	0.52	5.90	0.54	3.51	9.96
Spray (Bcast/HB)	20' Rigid	MFWD 150	7,920	200	8	0.084	1.52	1.69	0.31	0.34	3.88	0.41	2.28	6.58
Spray (Bcast/HB)	27' Fold	MFWD 170	15,100	200	8	0.062	1.13	1.42	0.44	0.28	3.29	0.58	2.00	5.88
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,570	200	8	0.062	1.13	1.42	0.28	0.28	3.12	0.37	2.00	5.50
Spray (Bcast/HB)	30' Fold	MFWD 170	18,600	200	8	0.056	1.01	1.28	0.49	0.26	3.05	0.65	1.80	5.50
Spray (Bcast/HB)	40' Fold	MFWD 170	21,800	200	8	0.042	0.76	0.96	0.43	0.19	2.35	0.57	1.35	4.27
Spray (Broadcast)	27'	MFWD 170	7,270	200	8	0.062	1.13	1.42	0.21	0.28	3.06	0.28	2.00	5.34
Spray (Broadcast)	40'	MFWD 170	8,630	200	8	0.042	0.76	0.96	0.17	0.19	2.09	0.22	1.35	3.67
Spray (Broadcast)	50'	MFWD 170	13,700	200	8	0.033	0.61	0.77	0.21	0.15	1.75	0.28	1.08	3.12
Spray (Broadcast)	60'	MFWD 170	15,600	200	8	0.028	0.50	0.64	0.20	0.13	1.48	0.27	0.90	2.66
Spray (Direct/Hood)	8R-30	MFWD 170	20,000	200	8	0.084	1.52	1.92	0.79	0.39	4.63	1.05	2.70	8.39
Spray (Direct/Hood)	8R-38	MFWD 170	21,500	200	8	0.066	1.20	1.52	0.67	0.30	3.71	0.89	2.13	6.74
Spray (Direct/Hood)	12R-30	MFWD 170	24,800	200	8	0.056	1.01	1.28	0.65	0.26	3.21	0.87	1.80	5.89
Spray (Direct/Hood)	12R-38	MFWD 170	26,600	200	8	0.044	0.80	1.01	0.55	0.20	2.57	0.73	1.42	4.73
Spray (Direct/Layby)	8R-30	MFWD 170	11,300	200	8	0.084	1.52	1.92	0.44	0.39	4.29	0.59	2.70	7.58
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.20	1.52	0.35	0.30	3.39	0.47	2.13	5.99
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	14,900	200	8	0.044	0.80	1.01	0.31	0.20	2.33	0.41	1.42	4.16
Spray (Direct/Layby)	12R-30	MFWD 170	14,900	200	8	0.056	1.01	1.28	0.39	0.26	2.95	0.52	1.80	5.28
Spray (Direct/Layby)	12R-38	MFWD 170	14,900	200	8	0.044	0.80	1.01	0.31	0.20	2.33	0.41	1.42	4.16
Spray (Direct/Layby)	16R-20	MFWD 225	17,100	200	8	0.062	1.13	1.88	0.50	0.37	3.89	0.66	2.58	7.14
Spray (Levee Leaper)	50'	MFWD 225	13,200	200	8	0.033	0.61	1.01	0.20	0.20	2.04	0.27	1.39	3.71
Spray (Pull Type)	60'	MFWD 225	40,700	200	8	0.028	0.50	0.84	0.53	0.16	2.06	0.71	1.16	3.94
Spray (Pull Type)	80'	MFWD 225	52,500	200	8	0.021	0.38	0.63	0.52	0.12	1.66	0.69	0.87	3.22
Spray (Pull Type)	90'	2WD 50	53,200	200	8	0.018	0.33	0.12	0.46	0.01	0.94	0.62	0.08	1.65
Spray (Pull Type)	120'	MFWD 225	80,900	200	8	0.014	0.25	0.42	0.53	0.08	1.29	0.71	0.58	2.58
Spray (Ropewick)	20'	MFWD 190	4,100	200	8	0.084	1.52	2.15	0.16	0.46	4.30	0.21	3.19	7.71
Spray (Spot)	27'	MFWD 170	7,270	200	8	0.062	1.13	1.42	0.21	0.28	3.06	0.28	2.00	5.34
Spray (Spot)	40'	MFWD 170	8,630	200	8	0.042	0.76	0.96	0.17	0.19	2.09	0.22	1.35	3.67
Spray (Spot)	50'	MFWD 170	13,700	200	8	0.033	0.61	0.77	0.21	0.15	1.75	0.28	1.08	3.12
Spray (Spot)	60'	MFWD 225	15,600	200	8	0.028	0.50	0.84	0.20	0.16	1.73	0.27	1.16	3.17
Stalk Shredder	14'	MFWD 150	21,100	200	10	0.117	1.59	2.36	2.17	0.47	6.61	1.45	3.18	11.24
Stalk Shredder Flex	20'	MFWD 150	29,300	200	10	0.082	1.11	1.65	2.11	0.33	5.22	1.41	2.22	8.85
Stalk Shredder-Flail	12'	MFWD 150	17,400	200	10	0.137	1.85	2.76	2.09	0.55	7.26	1.39	3.71	12.37
Stalk Shredder-Flail	15'	MFWD 150	21,900	200	10	0.110	1.48	2.20	2.10	0.44	6.24	1.40	2.96	10.62
Stalk Shredder-Flail	18'	MFWD 150	29,200	200	10	0.091	1.23	1.84	2.34	0.37	5.79	1.56	2.47	9.83
Stalk Shredder-Flail	20'	MFWD 150	29,000	200	10	0.082	1.11	1.65	2.09	0.33	5.19	1.39	2.22	8.82
Stalk Shredder-Flail	25'	MFWD 150	41,000	200	10	0.066	0.89	1.32	2.36	0.26	4.85	1.58	1.78	8.21
Subsoiler	3 shank	MFWD 190	5,810	100	15	0.204	2.76	5.19	0.39	1.11	9.46	1.11	7.71	18.30
Subsoiler	4 shank	MFWD 225	9,200	100	15	0.153	2.07	4.62	0.47	0.91	8.08	1.32	6.33	15.75
Subsoiler	5 shank	MFWD 225	12,600	100	15	0.122	1.65	3.68	0.51	0.73	6.58	1.44	5.04	13.07
Subsoiler low-till	6 shank	MFWD 225	14,600	100	15	0.102	1.38	3.07	0.49	0.60	5.56	1.40	4.21	11.17
Subsoiler low-till	8 shank	MFWD 225	20,000	100	15	0.076	1.03	2.30	0.51	0.45	4.30	1.43	3.15	8.89

Notes:
 Labor: Includes labor from Power unit plus additional labor from the implement.
 Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Captan 50 WP	lb	4.28
Agri-Dex	pt	2.39	Cotton Seed Trt.	acre	20.00
Crop Oil Conc. (Pet.)	pt	2.37	CruiserMaxx	oz	4.28
Crop Oil Conc. (Veg.)	pt	2.58	Headline EC	oz	3.11
Dyne-A-Pak	pt	4.80	Propimax EC	pt	12.88
Induce	pt	3.59	Prosaro	oz	2.56
MSO	pt	2.09	Quadris	oz	2.25
Penetrator Plus	pt	2.34	Quadris Top	oz	2.61
Surfactant	pt	3.59	Quadris Top SBX	oz	2.75
CLEANING			Quilt	pt	18.55
Cleaning Peanuts	ton	18.00	Quilt XCEL	pt	25.43
CROP CONSULTANT			Stratego	pt	24.58
Corn Consultant	acre	6.00	Stratego YLD	oz	4.28
Cotton Consultant	acre	8.00	Tilt 3.6 EC	oz	0.75
Peanut Consultant	acre	9.25	Tilt/ Bravo SE	oz	0.41
Rice Consultant	acre	8.00	GINNING		
Sorghum Consultant	acre	6.00	Gin & Haul	lb	0.11
Soybeans Consultant	acre	6.50	GROWTH REGULATORS		
Wheat Consultant	acre	5.50	Mepex	oz	0.08
CUSTOM FERTILIZE			Mepichlor 4.2%	oz	0.08
App Fert by Air	cwt	7.00	Mepiquat	oz	0.08
App Fert by Air (Mi)	appl	7.00	Mepstar	oz	0.08
Custom Apply Fert	acre	7.50	Palisade	oz	1.25
CUSTOM LIME			Stance	oz	1.25
Lime (Spread)	ton	38.00	HARVEST AIDS		
CUSTOM PLANT			Adios	oz	1.99
Custom Plant	acre	7.50	Aim 2EC	oz	5.65
Custom Plant Air	cwt	7.00	Def/Folex	pt	10.90
CUSTOM			Defol 5	gal	5.40
App by Air (3 gal)	appl	5.00	Display	pt	40.61
App by Air (5 gal)	appl	6.50	Ethephon 6E	pt	3.53
App by Air (10 gal)	appl	9.00	Finish 6	pt	9.60
Custom Spray Ground	acre	7.00	Folex 6EC	pt	10.90
DRYING			Freefall SC	oz	0.97
Dry Corn	bu	0.19	Ginstar EC	pt	26.41
Dry Grain Sorghum	cwt	0.25	Gramoxone SL	oz	0.15
Dry Peanuts	ton	24.00	Sharpen	oz	6.45
Dry Rice	bu	0.40	Sodium Chlorate 5L	gal	5.40
ERADICATION FEE			SuperBoll	oz	0.22
Eradication	acre	1.00	Thidiazuron 4lb	oz	0.97
FERTILIZERS			Tribufos 6lb	pt	10.90
Agrotain Ultra	pt	9.12	HAULING		
Amm Sulfate (21% N)	cwt	14.50	Haul Corn	bu	0.23
Boron Plus	pt	3.50	Haul Peanuts	ton	14.50
DAP	cwt	23.76	Haul Rice	bu	0.35
Fert 10-34-0	cwt	22.25	Haul Sorghum	bu	0.25
Fert 10-34-0	gal	2.59	Haul Soybeans	bu	0.27
Fert 11-37-0	cwt	26.50	Haul Wheat	bu	0.26
Fert 33-0-0-12S	cwt	18.00	HERBICIDES		
Fert 41-0-0-4	cwt	14.25	2,4-D Ester	pt	4.17
Lime	ton	28.00	2,4-D Amine 4	pt	2.40
NBPT	pt	9.12	AAtrex 4L	pt	2.12
Phosphorus (46% P2O5)	cwt	23.75	Accent Q	oz	23.85
Potash (60% K2O)	cwt	20.00	Aim	oz	5.65
Sulfur Plus	pt	3.15	Anthem	oz	3.08
UAN (32% N)	cwt	11.25	Anthem Maxx	oz	6.16
UAN (32%)	gal	1.24	Armezon Pro	oz	1.26
UAN + Sulfur (28%)	cwt	12.40	Atrazine 4L	pt	1.98
UAN + Sulfur (28%)	gal	1.38	Atrazine 90DF	lb	3.38
Urea, Solid (46% N)	cwt	14.50	Authority Elite	pt	15.67
Zinc Plus	pt	4.99	Authority Maxx	lb	64.05
FUNGICIDES			Authority MTZ	lb	26.30
Aframe	oz	1.91	Axial XL	oz	1.18
Alfa Guard	lb	1.55	Axiom	oz	1.92
Allegiance Flowable	pt	49.00	Barrage	pt	6.63
Approach Prima	pt	42.10	Boundary	pt	11.21
Apron Maxx RTA	oz	0.95	Broadaxe	pt	16.57
Avicta Complete Bean	oz	0.49	Bucaneer Plus	pt	1.48
Bravo Weather Stick	pt	6.88			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Butyrac 200 (2,4-DB)	pt	4.34	Stalwart	pt	4.80
Bxxolero	pt	7.73	Stam 80 EDF	lb	9.64
Cadre	oz	3.54	Stam M4	qt	7.84
Caparol	pt	4.52	Staple LX	oz	7.63
Capreno	oz	7.13	Sterling Blue	pt	7.82
Cinch ATZ	pt	5.89	Storm	pt	11.41
Clarity	pt	11.51	Superwham	qt	9.20
Classic	oz	17.18	Suprend	lb	13.74
Clearpath	lb	61.27	Synchrony XP	oz	12.71
Clethomine 2E	oz	0.56	Tempest	oz	1.84
Clincher SF	oz	2.34	Touchdown Total	qt	6.97
Command 3ME	pt	19.93	Trifluralin	pt	3.56
Corvus	oz	7.29	Triflurex	pt	3.86
Cotoran	pt	6.42	Ultra Blazer	pt	10.26
Declare	oz	1.64	Valor SX	oz	4.57
Dicamba	pt	8.48	Warrant	pt	4.84
Direx	pt	2.93	XtendiMax	oz	9.10
Diuron	pt	2.90	Zidua	oz	9.05
Dual II Magnum	pt	14.83	INOCULANT		
Dual Magnum	pt	13.81	Inoculant-Soybean	acre	1.55
Duet	pt	5.35	Optimize LIFT	oz	0.55
Endigo	oz	1.80	INSECTICIDES		
Engenia	oz	1.02	Abamectin .15EC	oz	0.95
Facet L	pt	15.25	Acephate 90%	lb	8.70
Fierce	oz	7.54	Acephate 90SP	lb	7.92
First Rate	oz	43.40	Admire Pro	oz	1.80
Flexstar	pt	8.41	Baythroid XL	oz	2.65
Fusilade DX	oz	1.00	Belt	oz	7.90
Glyphosate 3lbs a.e	pt	2.16	Bidrin 8EC	oz	1.26
Glyphosate 3lbs a.e	oz	0.14	Bifenthrin	oz	0.76
Gramoxone SL 2.0	oz	0.15	Bifenture 2EC	oz	0.76
Grandstand R	pt	15.86	Brigade EC	pt	12.37
Halex GT	pt	7.80	Capture LFR	oz	2.28
Halomax	oz	21.44	Centric 40WG	oz	5.37
Harmony Extra SG	oz	13.79	Diamond .83EC	oz	1.40
Hero	pt	25.77	Dimethoate 4E	pt	5.35
Leadoff	oz	5.82	Dimilin 2L	oz	2.13
Lexar	pt	8.01	Force 3G	lb	6.03
Liberty 280	oz	0.59	Gaicho 600	oz	2.36
Loyant	oz	0.00	Imidacloprid 4F	oz	1.00
Metribuzin 4L	pt	9.98	Imidan 70 WSB	oz	0.67
Metribuzin 75	lb	16.40	IncidentalPestTrt \$8	acre	8.00
Newpath	oz	3.83	IncidentalPestTrt\$15	acre	15.00
Osprey	oz	3.62	IncidentalPestTrt\$22	acre	22.00
Outlook	pt	16.60	IncidentalPestTrt\$30	acre	30.00
Paraquat	oz	0.24	Intrepid 2F	oz	2.03
Parazone 3SL	oz	0.24	Intruder 70WSP	oz	9.05
Permit	oz	22.46	Karate Z	oz	2.74
Permit Plus	oz	21.02	Lambda	oz	1.09
Prefix	pt	6.53	Lannate LV	pt	10.99
Provisia	oz	0.78	Macho	oz	0.64
Prowl 3.3 EC	pt	6.09	Malathion 5E	pt	5.50
RealmQ	oz	4.97	Malathion 8E	pt	5.50
RebelEx	oz	2.51	Mustang Max	oz	1.34
Reflex	pt	6.53	Nuprid 4F	oz	1.06
Regiment	oz	44.90	Orthene 90	lb	9.49
Resicore	oz	0.58	Permethrin	oz	0.49
Resource	oz	1.83	Pounce 25WP	lb	14.15
RiceBeaux	pt	5.85	Prevathon	oz	1.32
Riceshot	pt	3.87	Radiant	oz	6.82
Ricestar HT	pt	24.35	Sevin 4F	pt	6.22
Roundup Power Max	oz	0.18	Sevin XLR Plus	qt	13.23
Roundup PowerMax	pt	2.80	Sivanto Prime	oz	2.52
Roundup WeatherMax	oz	0.26	Transform WG	oz	8.18
Roundup WeatherMax	pt	4.17	Warrior II	oz	2.67
Select Max	pt	12.71	IRRIGATION SUPPLIES		
Sequence	pt	5.94	Roll-Out Pipe	ft	0.25
Sharpen	oz	6.45	SEED/PLANTS		
Sinister	pt	15.63			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2019 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Corn Seed Conv.	thous	2.26	Rice Seed Trt/Insect	lbseed	0.23
Corn Seed BtRR	thous	3.63	Sorghum Concept	lb	2.10
Corn Seed RR2	thous	3.36	Sorghum Concept+ Po	lb	3.96
Cotton Seed B3XF	thous	2.40	Soybean Seed LL	lb	1.42
Cotton Seed GLB2	thous	2.54	Soybean Seed RR2	lb	1.34
Cotton Seed GLTP	thous	2.11	Soybean Seed RR2X	lb	1.55
Cotton Seed W3FE	thous	2.34	SOIL TEST		
CSeed B3XF/W3RE/GLTP	thous	2.28	Soil Test	acre	10.00
Peanut Seed	lb	0.84	SURVEY & MARK LEVEES		
Rice Clearfield	lb	1.06	Survey & Mark Levees	acre	4.50
Rice Clrflld Hyb Trt	lb	5.70			
Rice Conv Hyb Trt	lb	5.70			
Rice Seed CF(Levees)	lb	1.06			
Rice Seed CFH(Levee)	lb	1.78			
Rice Seed Conv.	lb	0.28			
Rice Seed Cv(Levees)	lb	0.28			
Rice Seed CvH(Levee)	lb	1.66			
Rice Seed Provisia	lb	1.15			

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2019

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.60
Gasoline	gal	2.50
INTEREST RATES		
Short-term	%	6.00
Intermediate-term	%	6.50

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2019

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	14.23
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, 2019

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '19	4.00	-0.20	3.80	2.10	3.80
Cotton Lint	lb	Dec '19	0.7572	-0.0158	0.7414	0.52	0.7414
Cottonseed	lb						0.10 ^f
Grain Sorghum	bu				3.61	2.02	3.61
Peanuts	ton				385.00	355.00	385.00
Soybeans	bu	Nov '19	9.29	+0.01	9.30	5.21	9.30
Rice	bu	Nov '19	4.98	-0.38	4.60	2.96	4.60
Wheat	bu	Jul '19	5.52	-0.15	5.37	2.76	5.37

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2018 for the stated contract months.

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2018 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

^c The forward contract price for corn, cotton, rice, soybeans and wheat is the futures contract price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is an estimate from a poll of Extension Peanut Marketing Specialists.

^d Average Mississippi County CCC Loan Rate for 2018 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2018 Farm-stored Loan Rate for long grain rough rice. National 2019 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2008-2017.

Appendix Table 8. Estimated costs for field operations, per acre
 Cotton irrigated with center pivot
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Set Up Engine									
IRRIGATE LABOR	hour				0.27		0.01	0.28	0.28
Maintenance									
IRRIGATE LABOR	hour				1.07		0.03	1.10	1.10
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Apply Water									
IRRIGATE LABOR	hour				0.20			0.20	0.20
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Pivot, 1/4 CP	each			13.48			0.34	13.82	61.18
Well & Pump, 1/4 CP	each			3.50			0.09	3.59	11.96
Engine, 1/4 CP, 65	each								11.29
June Irr. 3app@.75"	ac-in		8.74	1.40			0.25	10.39	10.39
July Irr. 4app@.75"	ac-in		11.65	1.87			0.27	13.79	13.79
Aug Irr. 3app@.75"	ac-in		8.74	1.40			0.15	10.29	10.29
TOTALS		0.00	29.13	21.65	1.84	0.00	1.14	53.76	84.43

Note: Cost of production estimates are based on 2018 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
 Irrigation with a 1/4-mile center pivot system
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Maintenance										
IRRIGATE LABOR	hour				1.07		0.03	1.10		1.10
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20		0.20
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Pivot, 1/4 CP	each			13.48			0.34	13.82	61.18	75.00
Well & Pump, 1/4 CP	each			3.50			0.09	3.59	11.96	15.55
Engine, 1/4 CP, 65	each								11.29	11.29
June Irr. 3app@.75"	ac-in		8.74	1.40			0.25	10.39		10.39
July Irr. 4app@.75"	ac-in		11.65	1.87			0.27	13.79		13.79
Aug Irr. 3app@.75"	ac-in		8.74	1.40			0.15	10.29		10.29
TOTALS		0.00	29.13	21.65	1.84	0.00	1.14	53.76	84.43	138.19

Note: Cost of production estimates are based on 2018 input prices.

Appendix Table 10. Estimated costs for field operations, per acre
 Peanuts irrigated with a roll-out pipe
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2019

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Land Plane	50'x16'		0.96	0.32	0.51		0.11	1.90	1.75	3.65
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.21	0.06	0.13		0.01	0.41	0.33	0.74
Roll-Out Pipe	ft	8.25					0.21	8.46		8.46
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.28	0.09	0.40		0.02	0.79	0.72	1.51
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.43	0.13	0.59		0.01	1.16	1.07	2.23
Land Forming (\$450)	each								36.89	36.89
Well & Pump, Furrow	each			2.96			0.07	3.03	10.09	13.12
Main Line Pipe	each								4.99	4.99
Engine, RPF, PNUT	each								9.53	9.53
1st July Irrigation	ac-in		6.35	0.98			0.15	7.48		7.48
2nd Aug Irrigation	ac-in		6.35	0.98			0.11	7.44		7.44
2nd Aug Irrigation	ac-in		6.35	0.98			0.11	7.44		7.44
1st Sep Irrigation	ac-in		6.35	0.98			0.07	7.40		7.40
TOTALS		8.25	27.28	7.48	4.59	0.00	0.93	48.53	65.37	113.90

Note: Cost of production estimates are based on 2018 input prices.

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