

**PEANUTS  
2019  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2018-07**

**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.

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 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 peanut yields that may be expected in a given year. Budget yields are tempered with unpublished research and judgments of the commodity committee. Producers should use yield estimates that are reflective of their own operation.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. The price used in the budgets is the higher of the loan rate or the best estimate of a contract price for the following growing season. Industry peanut buyers are polled to estimate a contract price.

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.

### 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.

### Irrigation Costs

Estimated costs of a ¼ mile center pivot irrigation system is presented in Appendix Table 8. 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.



## Enterprise Budgets

Table 1.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.



Table 1.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 2.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 2.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 3.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.



Table 3.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 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**

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

Table 3.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	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					1.0800				
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							1.38	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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.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 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 3.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 3.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 4.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 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.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 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.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	
<b>TOTALS</b>							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 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.



Table 4.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.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 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 4.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

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
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

Table with columns: 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. Rows list various equipment types like Bed-Paratill, Bed-Rip/Disk, Bed/Disk, Bed/Lister, Blade-Box, Chisel Plow, and Cultivate with their respective specifications and costs.

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

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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Barrage	pt	6.63	Sharpen	oz	6.45
Boundary	pt	11.21	Sinister	pt	15.63
Broadaxe	pt	16.57	Stalwart	pt	4.80
Bucaneer Plus	pt	1.48	Stam 80 EDF	lb	9.64
Butyrac 200 (2,4-DB)	pt	4.34	Stam M4	qt	7.84
Bxxolero	pt	7.73	Staple LX	oz	7.63
Cadre	oz	3.54	Sterling Blue	pt	7.82
Caparol	pt	4.52	Storm	pt	11.41
Capreno	oz	7.13	Superwham	qt	9.20
Cinch ATZ	pt	5.89	Suprend	lb	13.74
Clarity	pt	11.51	Synchrony XP	oz	12.71
Classic	oz	17.18	Tempest	oz	1.84
Clearpath	lb	61.27	Touchdown Total	qt	6.97
Clethomine 2E	oz	0.56	Trifluralin	pt	3.56
Clincher SF	oz	2.34	Triflurex	pt	3.86
Command 3ME	pt	19.93	Ultra Blazer	pt	10.26
Corvus	oz	7.29	Valor SX	oz	4.57
Cotoran	pt	6.42	Warrant	pt	4.84
Declare	oz	1.64	XtendiMax	oz	9.10
Dicamba	pt	8.48	Zidua	oz	9.05
Direx	pt	2.93	INOCULANT		
Diuron	pt	2.90	Inoculant-Soybean	acre	1.55
Dual II Magnum	pt	14.83	Optimize LIFT	oz	0.55
Dual Magnum	pt	13.81	INSECTICIDES		
Duet	pt	5.35	Abamectin .15EC	oz	0.95
Endigo	oz	1.80	Acephate 90%	lb	8.70
Engenia	oz	1.02	Acephate 90SP	lb	7.92
Facet L	pt	15.25	Admire Pro	oz	1.80
Fierce	oz	7.54	Baythroid XL	oz	2.65
First Rate	oz	43.40	Belt	oz	7.90
Flexstar	pt	8.41	Bidrin 8EC	oz	1.26
Fusilade DX	oz	1.00	Bifenthrin	oz	0.76
Glyphosate 3lbs a.e	pt	2.16	Bifenture 2EC	oz	0.76
Glyphosate 3lbs a.e	oz	0.14	Brigade EC	pt	12.37
Gramoxone SL 2.0	oz	0.15	Capture LFR	oz	2.28
Grandstand R	pt	15.86	Centric 40WG	oz	5.37
Halex GT	pt	7.80	Diamond .83EC	oz	1.40
Halomax	oz	21.44	Dimethoate 4E	pt	5.35
Harmony Extra SG	oz	13.79	Dimilin 2L	oz	2.13
Hero	pt	25.77	Force 3G	lb	6.03
Leadoff	oz	5.82	Gaucho 600	oz	2.36
Lexar	pt	8.01	Imidacloprid 4F	oz	1.00
Liberty 280	oz	0.59	Imidan 70 WSB	oz	0.67
Loyant	oz	0.00	IncidentalPestTrt \$8	acre	8.00
Metribuzin 4L	pt	9.98	IncidentalPestTrt\$15	acre	15.00
Metribuzin 75	lb	16.40	IncidentalPestTrt\$22	acre	22.00
Newpath	oz	3.83	IncidentalPestTrt\$30	acre	30.00
Osprey	oz	3.62	Intrepid 2F	oz	2.03
Outlook	pt	16.60	Intruder 70WSP	oz	9.05
Paraquat	oz	0.24	Karate Z	oz	2.74
Parazone 3SL	oz	0.24	Lambda	oz	1.09
Permit	oz	22.46	Lannate LV	pt	10.99
Permit Plus	oz	21.02	Macho	oz	0.64
Prefix	pt	6.53	Malathion 5E	pt	5.50
Provisia	oz	0.78	Malathion 8E	pt	5.50
Prowl 3.3 EC	pt	6.09	Mustang Max	oz	1.34
RealmQ	oz	4.97	Nuprid 4F	oz	1.06
RebelEx	oz	2.51	Orthene 90	lb	9.49
Reflex	pt	6.53	Permethrin	oz	0.49
Regiment	oz	44.90	Pounce 25WP	lb	14.15
Resicore	oz	0.58	Prevathon	oz	1.32
Resource	oz	1.83	Radiant	oz	6.82
RiceBeaux	pt	5.85	Sevin 4F	pt	6.22
Riceshot	pt	3.87	Sevin XLR Plus	qt	13.23
Ricestar HT	pt	24.35	Sivanto Prime	oz	2.52
Roundup Power Max	oz	0.18	Transform WG	oz	8.18
Roundup PowerMax	pt	2.80	Warrior II	oz	2.67
Roundup WeatherMax	oz	0.26	IRRIGATION SUPPLIES		
Roundup WeatherMax	pt	4.17	Roll-Out Pipe	ft	0.25
Select Max	pt	12.71	SEED/PLANTS		
Sequence	pt	5.94			(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 Clrfld 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 <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>c</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
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 <sup>f</sup>
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

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

<sup>b</sup> 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.

<sup>c</sup> 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.

<sup>d</sup> 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.

<sup>e</sup> Price used in MSU Extension Service Planning Budgets.

<sup>f</sup> Cottonseed price is the average marketing year price over the years 2008-2017.

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

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