

PEANUTS

2020

PLANNING BUDGETS

**Mississippi State University
Department of Agricultural Economics
Budget Report 2019-07**

October 2019

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 2020 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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2020 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 2019. (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 $\frac{1}{4}$ 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, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM		
dollars				dollars			
DIRECT EXPENSES							
FUNGICIDES							
Bravo Weather Stick	pt	6.35	5.5000	34.92	_____		
Abound	oz	0.98	36.0000	35.28	_____		
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____		
HERBICIDES							
Glyphosate 3lbs a.e	pt	2.16	4.0000	8.64	_____		
Dual Magnum	pt	10.26	1.0000	10.26	_____		
Valor SX	oz	4.28	3.0000	12.84	_____		
Storm	pt	11.58	1.5000	17.37	_____		
Cadre	oz	3.10	4.0000	12.40	_____		
Butyrac 200 (2,4-DB)	pt	3.49	2.0000	6.98	_____		
Select Max	pt	10.87	1.0000	10.87	_____		
INSECTICIDES							
Admire Pro	oz	1.33	9.0000	11.97	_____		
Acephate 90%	lb	7.17	0.1375	0.99	_____		
SEED/PLANTS							
Peanut Seed	lb	0.89	125.0000	111.25	_____		
ADJUVANTS							
Crop Oil Conc. (Veg.)	pt	3.22	6.0000	19.32	_____		
CLEANING							
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____		
DRYING							
Dry Peanuts	ton	24.00	1.1400	27.36	_____		
CUSTOM LIME							
Lime (Spread)	ton	43.00	0.3330	14.32	_____		
INOCULANT							
Optimize LIFT	oz	0.51	14.8000	7.55	_____		
SOIL TEST							
Soil Test	acre	10.00	0.3330	3.33	_____		
OPERATOR LABOR							
Tractors	hour	15.22	1.6246	24.72	_____		
Self-Propelled	hour	15.22	0.1983	3.04	_____		
HAND LABOR							
Implements	hour	9.06	0.1207	1.09	_____		
Self-Propelled	hour	9.06	0.0991	0.90	_____		
UNALLOCATED LABOR							
hour		15.18	1.4583	22.14	_____		
DIESEL FUEL							
Tractors	gal	2.30	17.5722	40.41	_____		
Self-Propelled	gal	2.30	1.7850	4.05	_____		
REPAIR & MAINTENANCE							
Implements	acre	12.60	1.0000	12.60	_____		
Tractors	acre	10.70	1.0000	10.70	_____		
Self-Propelled	acre	2.25	1.0000	2.25	_____		
INTEREST ON OP. CAP.	acre	7.05	1.0000	7.05	_____		
<hr/>							
TOTAL DIRECT EXPENSES				507.28	_____		
FIXED EXPENSES							
Implements	acre	48.17	1.0000	48.17	_____		
Tractors	acre	72.84	1.0000	72.84	_____		
Self-Propelled	acre	16.20	1.0000	16.20	_____		
<hr/>							
TOTAL FIXED EXPENSES				137.21	_____		
<hr/>							
TOTAL SPECIFIED EXPENSES				644.49	_____		

Note: Cost of production estimates are based on 2019 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	400.00	1.9000	760.00	-----
TOTAL INCOME				760.00	-----
DIRECT EXPENSES					
FUNGICIDES	acre	73.72	1.0000	73.72	-----
HERBICIDES	acre	79.36	1.0000	79.36	-----
INSECTICIDES	acre	12.96	1.0000	12.96	-----
SEED/PLANTS	acre	111.25	1.0000	111.25	-----
ADJUVANTS	acre	19.32	1.0000	19.32	-----
CLEANING	acre	29.16	1.0000	29.16	-----
DRYING	acre	27.36	1.0000	27.36	-----
CUSTOM LIME	acre	14.32	1.0000	14.32	-----
INOCULANT	acre	7.55	1.0000	7.55	-----
SOIL TEST	acre	3.33	1.0000	3.33	-----
HAND LABOR	hour	9.06	0.2199	1.99	-----
OPERATOR LABOR	hour	15.22	1.8229	27.76	-----
UNALLOCATED LABOR	hour	15.18	1.4583	22.14	-----
DIESEL FUEL	gal	2.30	19.3573	44.46	-----
REPAIR & MAINTENANCE	acre	25.55	1.0000	25.55	-----
INTEREST ON OP. CAP.	acre	7.05	1.0000	7.05	-----
TOTAL DIRECT EXPENSES				507.28	-----
RETURNS ABOVE DIRECT EXPENSES				252.72	-----
TOTAL FIXED EXPENSES				137.21	-----
TOTAL SPECIFIED EXPENSES				644.49	-----
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				115.51	-----

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

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.	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	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual 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
Abound	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
Abound	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	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					1.1400				
Cleaning Peanuts	ton					1.6200				
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 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.D Estimated costs for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.09	3.42	3.42
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.03	1.15	1.44
Glyphosate 3lbs a.e.	pt	8.64					0.23	8.87	8.87
Lime (Spread)	ton	14.32					0.38	14.70	14.70
Bed-Rip/Disk Fold.	8R-38		1.64	0.61	2.00		0.09	4.34	3.90
Peanut Plt&Pre Rigid	8R-38		2.72	2.73	4.40		0.22	10.07	9.07
Peanut Seed	lb	111.25					2.43	113.68	113.68
Optimize LIFT	oz	7.55					0.17	7.72	7.72
Admire Pro	oz	11.97					0.26	12.23	12.23
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Dual Magnum	pt	10.26					0.22	10.48	10.48
Valor SX	oz	12.84					0.28	13.12	13.12
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14		0.01	0.29	0.36
Acephate 90%	lb	0.99					0.02	1.01	1.01
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Storm	pt	17.37					0.30	17.67	17.67
Cadre	oz	12.40					0.22	12.62	12.62
Butyrac 200 (2,4-DB)	pt	3.49					0.06	3.55	3.55
Crop Oil Conc.(Veg.)	pt	6.44					0.11	6.55	6.55
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Bravo Weather Stick	pt	9.52					0.17	9.69	9.69
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Abound	oz	17.64					0.23	17.87	17.87
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Butyrac 200 (2,4-DB)	pt	3.49					0.05	3.54	3.54
Crop Oil Conc.(Veg.)	pt	6.44					0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Select Max	pt	10.87					0.14	11.01	11.01
Crop Oil Conc.(Veg.)	pt	6.44					0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Bravo Weather Stick	pt	6.35					0.08	6.43	6.43
Tebuconazole 3.6	oz	3.53					0.05	3.58	3.58
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Abound	oz	17.64					0.15	17.79	17.79
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Bravo Weather Stick	pt	9.52					0.08	9.60	9.60
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56			1.12	1.44
Bravo Weather Stick	pt	9.52					0.04	9.56	9.56
Peanut Dig/Invertor	4R-38		4.19	2.61	5.10		0.05	11.95	9.46
Peanut Harvester	4R-38		24.89	14.57	25.60		0.28	65.34	81.73
Dry Peanuts	ton	27.36					0.12	27.48	27.48
Cleaning Peanuts	ton	29.16					0.13	29.29	29.29
Peanut Dump Cart	6-Row		6.97	2.78	8.49		0.08	18.32	16.85
TOTALS		378.33	44.46	25.55	51.89	0.00	7.05	507.28	137.21
									644.49

Note: Cost of production estimates are based on 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

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	760.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.52	27.52	27.16	9.52
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.64	23.10	33.26	14.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.96	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	111.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	12.88	0.00	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	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	14.32	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	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	0.56	7.10	1.12	2.24	1.12	39.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.36	4.81	0.72	1.44	0.72	36.41
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.59	0.40	0.80	0.40	20.16
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.73	3.72	0.90	0.75	0.25	0.70
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	28.14	174.08	52.36	59.99	29.65	163.06
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-174.08	-52.36	-59.99	-29.65	596.94
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-202.22	-254.58	-314.57	-344.22	252.72

Note: Cost of production estimates are based on 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2020

PRODUCT	PERCENT	75	80	85	90	95	100	105	110	115	120	125	PRODUCT PRICE			
													300.00	320.00	340.00	
PERCENT	YIELD	UNIT	dollars													
Peanut Runner			300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00			
50	0.95	ton	-193 -331	-174 -312	-155 -293	-136 -274	-117 -255	-98 -236	-79 -217	-60 -198	-41 -179	-22 -160	-3 -141			
60	1.14	ton	-142 -279	-119 -256	-96 -234	-74 -211	-51 -188	-28 -165	-5 -142	17 -120	39 -97	62 -74	85 -51			
70	1.33	ton	-91 -228	-64 -201	-38 -175	-11 -148	15 -122	41 -95	68 -68	94 -42	121 -15	148 10	174 37			
80	1.52	ton	-39 -177	-9 -146	20 -116	51 -85	81 -55	112 -25	142 5	172 35	203 66	233 96	264 126			
90	1.71	ton	11 -125	45 -91	79 -57	113 -23	148 10	182 45	216 79	250 113	284 147	319 181	353 216			
100	1.90	ton	62 -74	100 -36	138 1	176 39	214 77	252 115	290 153	328 191	366 229	404 267	442 305			
110	2.09	ton	114 -23	155 18	197 60	239 102	281 144	323 185	364 227	406 269	448 311	490 353	532 394			
120	2.28	ton	165 28	210 73	256 119	302 164	347 210	393 256	438 301	484 347	530 392	575 438	621 484			
130	2.47	ton	216 79	266 128	315 178	364 227	414 277	463 326	513 375	562 425	611 474	661 524	710 573			
140	2.66	ton	268 130	321 184	374 237	427 290	480 343	534 396	587 450	640 503	693 556	746 609	800 662			
150	2.85	ton	319 182	376 239	433 296	490 353	547 410	604 467	661 524	718 581	775 638	832 695	889 752			

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 2019 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM		
dollars				dollars			
DIRECT EXPENSES							
FUNGICIDES							
Bravo Weather Stick	pt	6.35	5.5000	34.92	_____		
Abound	oz	0.98	36.0000	35.28	_____		
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____		
HERBICIDES							
Glyphosate 3lbs a.e.	pt	2.16	4.0000	8.64	_____		
Dual Magnum	pt	10.26	1.0000	10.26	_____		
Valor SX	oz	4.28	3.0000	12.84	_____		
Storm	pt	11.58	1.5000	17.37	_____		
Cadre	oz	3.10	4.0000	12.40	_____		
Butyrac 200 (2,4-DB)	pt	3.49	2.0000	6.98	_____		
Select Max	pt	10.87	1.0000	10.87	_____		
INSECTICIDES							
Admire Pro	oz	1.33	9.0000	11.97	_____		
Acephate 90%	lb	7.17	0.1375	0.99	_____		
SEED/PLANTS							
Peanut Seed	lb	0.89	125.0000	111.25	_____		
ADJUVANTS							
Crop Oil Conc.(Veg.)	pt	3.22	6.0000	19.32	_____		
CLEANING							
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____		
DRYING							
Dry Peanuts	ton	24.00	1.1400	27.36	_____		
CUSTOM LIME							
Lime (Spread)	ton	43.00	0.3330	14.32	_____		
INOCULANT							
Optimize LIFT	oz	0.51	29.6000	15.10	_____		
SOIL TEST							
Soil Test	acre	10.00	0.3330	3.33	_____		
OPERATOR LABOR							
Tractors	hour	15.22	1.6246	24.72	_____		
Self-Propelled	hour	15.22	0.1983	3.04	_____		
HAND LABOR							
Implements	hour	9.06	0.1207	1.09	_____		
Self-Propelled	hour	9.06	0.0991	0.90	_____		
UNALLOCATED LABOR							
hour		15.18	1.4583	22.14	_____		
DIESEL FUEL							
Tractors	gal	2.30	17.5722	40.41	_____		
Self-Propelled	gal	2.30	1.7850	4.05	_____		
REPAIR & MAINTENANCE							
Implements	acre	15.67	1.0000	15.67	_____		
Tractors	acre	10.70	1.0000	10.70	_____		
Self-Propelled	acre	2.25	1.0000	2.25	_____		
INTEREST ON OP. CAP.	acre	7.27	1.0000	7.27	_____		

TOTAL DIRECT EXPENSES				518.12	_____		
FIXED EXPENSES							
Implements	acre	54.37	1.0000	54.37	_____		
Tractors	acre	72.84	1.0000	72.84	_____		
Self-Propelled	acre	16.20	1.0000	16.20	_____		

TOTAL FIXED EXPENSES				143.41	_____		

TOTAL SPECIFIED EXPENSES				661.53	_____		

Note: Cost of production estimates are based on 2019 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	400.00	1.9000	760.00	-----
TOTAL INCOME				760.00	-----
DIRECT EXPENSES					
FUNGICIDES	acre	73.72	1.0000	73.72	-----
HERBICIDES	acre	79.36	1.0000	79.36	-----
INSECTICIDES	acre	12.96	1.0000	12.96	-----
SEED/PLANTS	acre	111.25	1.0000	111.25	-----
ADJUVANTS	acre	19.32	1.0000	19.32	-----
CLEANING	acre	29.16	1.0000	29.16	-----
DRYING	acre	27.36	1.0000	27.36	-----
CUSTOM LIME	acre	14.32	1.0000	14.32	-----
INOCULANT	acre	15.10	1.0000	15.10	-----
SOIL TEST	acre	3.33	1.0000	3.33	-----
HAND LABOR	hour	9.06	0.2199	1.99	-----
OPERATOR LABOR	hour	15.22	1.8229	27.76	-----
UNALLOCATED LABOR	hour	15.18	1.4583	22.14	-----
DIESEL FUEL	gal	2.30	19.3573	44.46	-----
REPAIR & MAINTENANCE	acre	28.62	1.0000	28.62	-----
INTEREST ON OP. CAP.	acre	7.27	1.0000	7.27	-----
TOTAL DIRECT EXPENSES				518.12	-----
RETURNS ABOVE DIRECT EXPENSES				241.88	-----
TOTAL FIXED EXPENSES				143.41	-----
TOTAL SPECIFIED EXPENSES				661.53	-----
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				98.47	-----

Note: Cost of production estimates are based on 2019 input prices.

Table 2.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

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 Rigid	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Ptlt&PreTwin	8R-30/40	MFWD 190	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					125.0000				
Optimize LIFT	oz					29.6000				
Admire Pro	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual 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
Abound	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
Abound	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	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					1.1400				
Cleaning Peanuts	ton					1.6200				
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 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.D Estimated costs for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.09	3.42	3.42
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.03	1.15	1.44
Glyphosate 3lbs a.e.	pt	8.64					0.23	8.87	8.87
Lime (Spread)	ton	14.32					0.38	14.70	14.70
Bed-Rip/Disk Rigid	8R-38		1.64	0.54	2.00		0.09	4.27	3.53
Peanut Ptlt&PreTwin	8R-30/40		2.72	5.87	4.40		0.28	13.27	15.64
Peanut Seed	lb	111.25					2.43	113.68	113.68
Optimize LIFT	oz	15.10					0.33	15.43	15.43
Admire Pro	oz	11.97					0.26	12.23	12.23
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Dual Magnum	pt	10.26					0.22	10.48	10.48
Valor SX	oz	12.84					0.28	13.12	13.12
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14		0.01	0.29	0.36
Acephate 90%	lb	0.99					0.02	1.01	1.01
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Storm	pt	17.37					0.30	17.67	17.67
Cadre	oz	12.40					0.22	12.62	12.62
Butyrac 200 (2,4-DB)	pt	3.49					0.06	3.55	3.55
Crop Oil Conc.(Veg.)	pt	6.44					0.11	6.55	6.55
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.02	1.14	1.44
Bravo Weather Stick	pt	9.52					0.17	9.69	9.69
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Abound	oz	17.64					0.23	17.87	17.87
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Butyrac 200 (2,4-DB)	pt	3.49					0.05	3.54	3.54
Crop Oil Conc.(Veg.)	pt	6.44					0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Select Max	pt	10.87					0.14	11.01	11.01
Crop Oil Conc.(Veg.)	pt	6.44					0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Bravo Weather Stick	pt	6.35					0.08	6.43	6.43
Tebuconazole 3.6	oz	3.53					0.05	3.58	3.58
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Abound	oz	17.64					0.15	17.79	17.79
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		0.01	1.13	1.44
Bravo Weather Stick	pt	9.52					0.08	9.60	9.60
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56			1.12	1.44
Bravo Weather Stick	pt	9.52					0.04	9.56	9.56
Peanut Dig/Invertor	4R-38		4.19	2.61	5.10		0.05	11.95	9.46
Peanut Harvester	4R-38		24.89	14.57	25.60		0.28	65.34	81.73
Dry Peanuts	ton	27.36					0.12	27.48	27.48
Cleaning Peanuts	ton	29.16					0.13	29.29	29.29
Peanut Dump Cart	6-Row		6.97	2.78	8.49		0.08	18.32	16.85
TOTALS		385.88	44.46	28.62	51.89	0.00	7.27	518.12	143.41
									661.53

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

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	760.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.52	27.52	27.16	9.52
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.64	23.10	33.26	14.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.96	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	111.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	12.88	0.00	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	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	14.32	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	15.10	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	0.56	7.10	1.12	2.24	1.12	39.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.36	4.81	0.72	1.44	0.72	36.41
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	6.66	0.40	0.80	0.40	20.16
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.73	3.94	0.90	0.75	0.25	0.70
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	28.14	184.92	52.36	59.99	29.65	163.06
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-184.92	-52.36	-59.99	-29.65	596.94
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-213.06	-265.42	-325.41	-355.06	241.88

Note: Cost of production estimates are based on 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2020

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
			PRODUCT PRICE										
Peanut Runner		300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00	
PERCENT	YIELD	UNIT	dollars										
50	0.95	ton	-204 -348	-185 -329	-166 -310	-147 -291	-128 -272	-109 -253	-90 -234	-71 -215	-52 -196	-33 -177	-14 -158
60	1.14	ton	-153 -296	-130 -274	-107 -251	-85 -228	-62 -205	-39 -182	-16 -160	6 -137	28 -114	51 -91	74 -68
70	1.33	ton	-102 -245	-75 -218	-48 -192	-22 -165	4 -139	30 -112	57 -85	84 -59	110 -32	137 -6	163 20
80	1.52	ton	-50 -194	-20 -163	10 -133	40 -102	70 -72	101 -42	131 -11	162 18	192 49	222 79	253 109
90	1.71	ton	0 -142	34 -108	68 -74	103 -40	137 -6	171 28	205 62	239 96	274 130	308 164	342 199
100	1.90	ton	51 -91	89 -53	127 -15	165 22	203 60	241 98	279 136	317 174	355 212	393 250	431 288
110	2.09	ton	103 -40	145 1	186 43	228 85	270 126	312 168	354 210	395 252	437 294	479 335	521 377
120	2.28	ton	154 11	200 56	245 102	291 147	336 193	382 239	428 284	473 330	519 375	564 421	610 467
130	2.47	ton	205 62	255 111	304 161	354 210	403 260	452 309	502 358	551 408	601 457	650 507	699 556
140	2.66	ton	257 113	310 166	363 220	416 273	469 326	523 379	576 432	629 486	682 539	735 592	789 645
150	2.85	ton	308	365	422	479	536	593	650	707	764	821	878
			165	222	279	336	393	450	507	564	621	678	735

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 2019 input prices

Table 3.A Estimated costs per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
			dollars		dollars
DIRECT EXPENSES					
FUNGICIDES					
Bravo Weather Stick	pt	6.35	5.5000	34.92	_____
Abound	oz	0.98	36.0000	35.28	_____
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	2.16	4.0000	8.64	_____
Dual Magnum	pt	10.26	1.0000	10.26	_____
Valor SX	oz	4.28	3.0000	12.84	_____
Storm	pt	11.58	1.5000	17.37	_____
Cadre	oz	3.10	4.0000	12.40	_____
Butyrac 200 (2,4-DB)	pt	3.49	2.0000	6.98	_____
Select Max	pt	10.87	1.0000	10.87	_____
INSECTICIDES					
Admire Pro	oz	1.33	9.0000	11.97	_____
Acephate 90%	lb	7.17	0.1375	0.99	_____
SEED/PLANTS					
Peanut Seed	lb	0.89	125.0000	111.25	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	3.22	6.0000	19.32	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	43.00	0.3330	14.32	_____
INOCULANT					
Optimize LIFT	oz	0.51	14.8000	7.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	15.22	1.1856	18.04	_____
Self-Propelled	hour	15.22	0.1983	3.04	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0991	0.90	_____
UNALLOCATED LABOR					
	hour	15.16	1.1072	16.79	_____
DIESEL FUEL					
Tractors	gal	2.30	12.8051	29.45	_____
Self-Propelled	gal	2.30	1.7850	4.05	_____
REPAIR & MAINTENANCE					
Implements	acre	9.78	1.0000	9.78	_____
Tractors	acre	7.79	1.0000	7.79	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	6.87	1.0000	6.87	_____

TOTAL DIRECT EXPENSES				478.02	_____
FIXED EXPENSES					
Implements	acre	39.67	1.0000	39.67	_____
Tractors	acre	53.08	1.0000	53.08	_____
Self-Propelled	acre	16.20	1.0000	16.20	_____

TOTAL FIXED EXPENSES				108.95	_____

TOTAL SPECIFIED EXPENSES				586.97	_____

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	400.00	1.9000	760.00	_____
TOTAL INCOME				760.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	73.72	1.0000	73.72	_____
HERBICIDES	acre	79.36	1.0000	79.36	_____
INSECTICIDES	acre	12.96	1.0000	12.96	_____
SEED/PLANTS	acre	111.25	1.0000	111.25	_____
ADJUVANTS	acre	19.32	1.0000	19.32	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	14.32	1.0000	14.32	_____
INOCULANT	acre	7.55	1.0000	7.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1795	1.63	_____
OPERATOR LABOR	hour	15.22	1.3840	21.08	_____
UNALLOCATED LABOR	hour	15.16	1.1072	16.79	_____
DIESEL FUEL	gal	2.30	14.5901	33.50	_____
REPAIR & MAINTENANCE	acre	19.82	1.0000	19.82	_____
INTEREST ON OP. CAP.	acre	6.87	1.0000	6.87	_____
TOTAL DIRECT EXPENSES				478.02	_____
RETURNS ABOVE DIRECT EXPENSES				281.98	_____
TOTAL FIXED EXPENSES				108.95	_____
TOTAL SPECIFIED EXPENSES				586.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				173.03	_____

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

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 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
Abound	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
Abound	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					1.1400				
Cleaning Peanuts	ton					1.6200				
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 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.D Estimated costs for field operations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.09	3.42	3.42
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.03	1.15	1.44
Glyphosate 3lbs a.e.	pt	8.64				0.23	8.87	8.87
Lime (Spread)	ton	14.32				0.38	14.70	14.70
Bed-Rip/Disk Fold.	12R-38		1.23	0.49	1.26	0.07	3.05	3.08
Peanut Plt&Pre Fold.	12R-38		1.81	3.15	2.93	0.17	8.06	8.83
Peanut Seed	lb	111.25				2.43	113.68	113.68
Optimize LIFT	oz	7.55				0.17	7.72	7.72
Admire Pro	oz	11.97				0.26	12.23	12.23
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44
Dual Magnum	pt	10.26				0.22	10.48	10.48
Valor SX	oz	12.84				0.28	13.12	13.12
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14	0.01	0.29	0.36
Acephate 90%	lb	0.99				0.02	1.01	1.01
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44
Storm	pt	17.37				0.30	17.67	17.67
Cadre	oz	12.40				0.22	12.62	12.62
Butyrac 200 (2,4-DB)	pt	3.49				0.06	3.55	3.55
Crop Oil Conc.(Veg.)	pt	6.44				0.11	6.55	6.55
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44
Bravo Weather Stick	pt	9.52				0.17	9.69	9.69
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Abound	oz	17.64				0.23	17.87	17.87
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Butyrac 200 (2,4-DB)	pt	3.49				0.05	3.54	3.54
Crop Oil Conc.(Veg.)	pt	6.44				0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Select Max	pt	10.87				0.14	11.01	11.01
Crop Oil Conc.(Veg.)	pt	6.44				0.08	6.52	6.52
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Bravo Weather Stick	pt	6.35				0.08	6.43	6.43
Tebuconazole 3.6	oz	3.53				0.05	3.58	3.58
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Abound	oz	17.64				0.15	17.79	17.79
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44
Bravo Weather Stick	pt	9.52				0.08	9.60	9.60
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		1.12	1.44
Bravo Weather Stick	pt	9.52				0.04	9.56	9.56
Peanut Dig/Invertor	6R-38		2.79	1.74	3.40	0.03	7.96	6.88
Peanut Harvester	6R-38		16.65	9.41	17.12	0.19	43.37	57.11
Dry Peanuts	ton	27.36				0.12	27.48	27.48
Cleaning Peanuts	ton	29.16				0.13	29.29	29.29
Peanut Dump Cart	6-Row		6.97	2.78	8.49	0.08	18.32	16.85
TOTALS		378.33	33.50	19.82	39.50	0.00	6.87	478.02
								108.95
								586.97

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

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	760.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.52	27.52	27.16	9.52
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.64	23.10	33.26	14.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.96	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	111.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	12.88	0.00	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	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	14.32	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	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	0.56	4.89	1.12	2.24	1.12	29.57
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	0.36	3.49	0.72	1.44	0.72	26.77
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.89	0.40	0.80	0.40	14.13
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.73	3.65	0.90	0.75	0.25	0.59
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	28.14	170.78	52.36	59.99	29.65	137.10
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-170.78	-52.36	-59.99	-29.65	622.90
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-28.14	-198.92	-251.28	-311.27	-340.92	281.98

Note: Cost of production estimates are based on 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.9 ton (3800 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2020

PRODUCT	PERCENT	PERCENT												
		75	80	85	90	95	100	105	110	115	120	125		
			PRODUCT PRICE											
Peanut Runner		300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00		
PERCENT	YIELD	UNIT	dollars											
50	0.95	ton	-164 -273	-145 -254	-126 -235	-107 -216	-88 -197	-69 -178	-50 -159	-31 -140	-12 -121	6 -102	25 -83	
60	1.14	ton	-113 -222	-90 -199	-67 -176	-44 -153	-22 -131	0 -108	23 -85	46 -62	69 -39	91 -17	114 5	
70	1.33	ton	-61 -170	-35 -144	-8 -117	17 -91	44 -64	71 -37	97 -11	124 15	150 41	177 68	204 95	
80	1.52	ton	-10 -119	19 -89	50 -58	80 -28	110 1	141 32	171 62	202 93	232 123	262 153	293 184	
90	1.71	ton	40 -68	74 -34	109 0	143 34	177 68	211 102	245 136	280 171	314 205	348 239	382 273	
100	1.90	ton	91 -16	129 21	167 59	205 97	243 135	281 173	319 211	357 249	395 287	433 325	471 363	
110	2.09	ton	143 34	185 76	226 117	268 159	310 201	352 243	394 285	435 326	477 368	519 410	561 452	
120	2.28	ton	194 85	240 131	285 176	331 222	377 268	422 313	468 359	513 404	559 450	605 496	650 541	
130	2.47	ton	245 136	295 186	344 235	394 285	443 334	492 383	542 433	591 482	641 532	690 581	739 630	
140	2.66	ton	297 188	350 241	403 294	456 347	510 401	563 454	616 507	669 560	722 613	776 667	829 720	
150	2.85	ton	348 239	405 296	462 353	519 410	576 467	633 524	690 581	747 638	804 695	861 752	918 809	

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 2019 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, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM		
dollars				dollars			
DIRECT EXPENSES							
FUNGICIDES							
Bravo Weather Stick	pt	6.35	5.5000	34.92	_____		
Abound	oz	0.98	36.0000	35.28	_____		
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____		
HERBICIDES							
Glyphosate 3lbs a.e.	pt	2.16	4.0000	8.64	_____		
Dual Magnum	pt	10.26	1.0000	10.26	_____		
Valor SX	oz	4.28	3.0000	12.84	_____		
Storm	pt	11.58	1.5000	17.37	_____		
Cadre	oz	3.10	4.0000	12.40	_____		
Butyrac 200 (2,4-DB)	pt	3.49	2.0000	6.98	_____		
Select Max	pt	10.87	1.0000	10.87	_____		
INSECTICIDES							
Admire Pro	oz	1.33	9.0000	11.97	_____		
Acephate 90%	lb	7.17	0.1375	0.99	_____		
IRRIGATION SUPPLIES							
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____		
SEED/PLANTS							
Peanut Seed	lb	0.89	125.0000	111.25	_____		
ADJUVANTS							
Crop Oil Conc.(Veg.)	pt	3.22	6.0000	19.32	_____		
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	43.00	0.3330	14.32	_____		
INOCULANT							
Optimize LIFT	oz	0.51	14.8000	7.55	_____		
SOIL TEST							
Soil Test	acre	10.00	0.3330	3.33	_____		
OPERATOR LABOR							
Tractors	hour	15.22	1.2642	19.24	_____		
Self-Propelled	hour	15.22	0.1983	3.04	_____		
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	15.16	1.1072	16.79	_____		
DIESEL FUEL							
Tractors	gal	2.30	13.5313	31.12	_____		
Self-Propelled	gal	2.30	1.7850	4.05	_____		
Irrigate Peanuts	gal	2.30	9.7755	22.48	_____		
REPAIR & MAINTENANCE							
Implements	acre	9.98	1.0000	9.98	_____		
Tractors	acre	8.21	1.0000	8.21	_____		
Self-Propelled	acre	2.25	1.0000	2.25	_____		
Irrigate Peanuts	acre	6.88	1.0000	6.88	_____		
INTEREST ON OP. CAP.	acre	7.68	1.0000	7.68	_____		

TOTAL DIRECT EXPENSES				531.95	_____		
FIXED EXPENSES							
Implements	acre	41.11	1.0000	41.11	_____		
Tractors	acre	55.94	1.0000	55.94	_____		
Self-Propelled	acre	16.20	1.0000	16.20	_____		
Irrigate Peanuts	acre	60.69	1.0000	60.69	_____		

TOTAL FIXED EXPENSES				173.94	_____		

TOTAL SPECIFIED EXPENSES				705.89	_____		

Note: Cost of production estimates are based on 2019 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 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, 2020

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	400.00	2.2000	880.00	_____
TOTAL INCOME				880.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	73.72	1.0000	73.72	_____
HERBICIDES	acre	79.36	1.0000	79.36	_____
INSECTICIDES	acre	12.96	1.0000	12.96	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	111.25	1.0000	111.25	_____
ADJUVANTS	acre	19.32	1.0000	19.32	_____
CLEANING	acre	33.66	1.0000	33.66	_____
DRYING	acre	31.68	1.0000	31.68	_____
CUSTOM LIME	acre	14.32	1.0000	14.32	_____
INOCULANT	acre	7.55	1.0000	7.55	_____
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	15.22	1.4625	22.28	_____
UNALLOCATED LABOR	hour	15.16	1.1072	16.79	_____
DIESEL FUEL	gal	2.30	25.0919	57.65	_____
REPAIR & MAINTENANCE	acre	27.32	1.0000	27.32	_____
INTEREST ON OP. CAP.	acre	7.68	1.0000	7.68	_____
TOTAL DIRECT EXPENSES				531.95	_____
RETURNS ABOVE DIRECT EXPENSES				348.05	_____
TOTAL FIXED EXPENSES				173.94	_____
TOTAL SPECIFIED EXPENSES				705.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				174.11	_____

Note: Cost of production estimates are based on 2019 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 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, 2020

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 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
Abound	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
Abound	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					1.0000	0.07	0.07	0.46	
TOTALS							1.46	1.26	2.02	1.10

Note: Cost of production estimates are based on 2019 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 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, 2020

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Soil Test	acre	3.33				0.09	3.42		3.42	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.03	1.15	1.44	2.59	
Glyphosate 3lbs a.e.	pt	8.64				0.23	8.87		8.87	
Lime (Spread)	ton	14.32				0.38	14.70		14.70	
Bed-Rip/Disk Fold.	12R-38		1.23	0.49	1.26	0.07	3.05	3.08	6.13	
Peanut Plt&Pre Fold.	12R-38		1.81	3.15	2.93	0.17	8.06	8.83	16.89	
Peanut Seed	lb	111.25				2.43	113.68		113.68	
Optimize LIFT	oz	7.55				0.17	7.72		7.72	
Admire Pro	oz	11.97				0.26	12.23		12.23	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44	2.58	
Dual Magnum	pt	10.26				0.22	10.48		10.48	
Valor SX	oz	12.84				0.28	13.12		13.12	
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14	0.01	0.29	0.36	0.65	
Acephate 90%	lb	0.99				0.02	1.01		1.01	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44	2.58	
Storm	pt	17.37				0.30	17.67		17.67	
Cadre	oz	12.40				0.22	12.62		12.62	
Butyrac 200 (2,4-DB)	pt	3.49				0.06	3.55		3.55	
Crop Oil Conc.(Veg.)	pt	6.44				0.11	6.55		6.55	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.02	1.14	1.44	2.58	
Bravo Weather Stick	pt	9.52				0.17	9.69		9.69	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Abound	oz	17.64				0.23	17.87		17.87	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Butyrac 200 (2,4-DB)	pt	3.49				0.05	3.54		3.54	
Crop Oil Conc.(Veg.)	pt	6.44				0.08	6.52		6.52	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Select Max	pt	10.87				0.14	11.01		11.01	
Crop Oil Conc.(Veg.)	pt	6.44				0.08	6.52		6.52	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Bravo Weather Stick	pt	6.35				0.08	6.43		6.43	
Tebuconazole 3.6	oz	3.53				0.05	3.58		3.58	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Abound	oz	17.64				0.15	17.79		17.79	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56	0.01	1.13	1.44	2.57	
Bravo Weather Stick	pt	9.52				0.08	9.60		9.60	
Sprayer 600-750gal	60' 175hp		0.36	0.20	0.56		1.12	1.44	2.56	
Bravo Weather Stick	pt	9.52				0.04	9.56		9.56	
Peanut Dig/Invertor	6R-38		2.79	1.74	3.40	0.03	7.96	6.88	14.84	
Peanut Harvester	6R-38		16.65	9.41	17.12	0.19	43.37	57.11	100.48	
Dry Peanuts	ton	31.68				0.14	31.82		31.82	
Cleaning Peanuts	ton	33.66				0.15	33.81		33.81	
Peanut Dump Cart	6-Row		6.97	2.78	8.49	0.08	18.32	16.85	35.17	
Irrigate Peanuts	acre	7.92	24.15	7.50	4.73	0.77	45.07	64.99	110.06	
TOTALS		395.07	57.65	27.32	44.23	0.00	7.68	531.95	173.94	705.89

Note: Cost of production estimates are based on 2019 input prices..

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 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, 2020

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	880.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.52	27.52	27.16	9.52
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.64	23.10	33.26	14.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.96	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	111.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	12.88	0.00	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	14.32	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	7.55	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	0.58	0.00	0.00	0.00	0.00	0.00	0.79	7.26	1.35	2.70	1.98	29.57
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	0.85	0.00	0.00	0.00	0.00	0.00	0.36	3.93	6.34	12.68	6.72	26.77
REPAIR & MAINTENANCE	0.30	0.00	0.00	0.00	0.00	0.00	0.20	7.02	1.38	2.76	1.53	14.13
INTEREST ON OP. CAP.	0.09	0.00	0.00	0.00	0.00	0.00	0.74	3.95	1.02	0.93	0.32	0.63
TOTAL DIRECT EXPENSES	1.82	0.00	0.00	0.00	0.00	0.00	28.38	184.94	59.31	73.83	37.71	145.96
NET INCOME	-1.82	0.00	0.00	0.00	0.00	0.00	-28.38	-184.94	-59.31	-73.83	-37.71	734.04
NET INCOME TO DATE	-1.82	-1.82	-1.82	-1.82	-1.82	-1.82	-30.20	-215.14	-274.45	-348.28	-385.99	348.05

Note: Cost of production estimates are based on 2019 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 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, 2020

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
			PRODUCT PRICE										
Peanut Runner	300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00		
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-169 -343	-147 -321	-125 -299	-103 -277	-81 -255	-59 -233	-37 -211	-15 -189	6 -167	28 -145	50 -123
60	1.32	ton	-109 -283	-83 -257	-56 -230	-30 -204	-4 -178	22 -151	48 -125	75 -98	101 -72	127 -46	154 -19
70	1.54	ton	-50 -224	-19 -193	11 -162	42 -131	72 -101	103 -70	134 -39	165 -8	196 22	226 52	257 83
80	1.76	ton	9 -164	44 -129	79 -94	114 -59	149 -23	185 11	220 46	255 81	290 116	325 152	361 187
90	1.98	ton	68 -105	108 -65	147 -26	187 13	227 53	266 92	306 132	345 171	385 211	425 251	464 290
100	2.20	ton	128 -45	172 -1	216 42	260 86	304 130	348 174	392 218	436 262	480 306	524 350	568 394
110	2.42	ton	187 13	235 61	284 110	332 158	381 207	429 255	477 303	526 352	574 400	623 449	671 497
120	2.64	ton	246 72	299 125	352 178	405 231	458 284	510 336	563 389	616 442	669 495	722 548	774 600
130	2.86	ton	306 132	363 189	420 246	477 304	535 361	592 418	649 475	706 532	763 590	821 647	878 704
140	3.08	ton	365 191	427 253	488 315	550 376	612 438	673 499	735 561	796 623	858 684	920 746	981 807
150	3.30	ton	425 251	491 317	557 383	623 449	689 515	755 581	821 647	887 713	953 779	1019 845	1085 911

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 2019 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, 2020

Item Name	Size	Purchase	Annual	Useful	Fuel	Labor	Fuel	R&M	Total	Fixed	Total
		Price	Use	Life	Use				Direct		Cost
		dollars	hours	years	gal/hr	\$/hour-----					
Combine (250-299 hp)	265 hp	352,000	300	8	13.64	15.22	31.37	36.66	83.25	155.57	238.83
Combine (300-349 hp)	325 hp	383,000	300	8	16.73	15.22	38.47	39.89	93.59	169.27	262.87
Combine (350-399 hp)	355 hp	395,000	300	8	18.27	15.22	42.02	41.14	98.38	174.58	272.96
Combine (400-449 hp)	425 hp	425,000	300	8	21.87	15.22	50.31	44.27	109.80	187.84	297.64
Combine (450-499hp)	475 hp	455,000	300	8	24.44	15.22	56.23	47.39	118.84	201.09	319.94
Tractor(20-39hp)CB	MFWD 30	30,000	600	8	1.54	15.22	3.55	0.93	19.70	6.12	25.83
Tractor(20-39hp)RB	MFWD 30	20,800	600	8	1.54	15.22	3.55	0.65	19.42	4.24	23.67
Tractor(40-59hp)CB	2WD 50	30,400	600	8	2.57	15.22	5.91	0.95	22.08	6.21	28.29
Tractor(40-59hp)CB	MFWD 50	40,300	600	8	2.57	15.22	5.91	1.25	22.39	8.23	30.63
Tractor(40-59hp)RB	2WD 50	21,600	600	8	2.57	15.22	5.91	0.67	21.81	4.41	26.22
Tractor(40-59hp)RB	MFWD 50	27,500	600	8	2.57	15.22	5.91	0.85	21.99	5.61	27.61
Tractor(60-89hp)CB	2WD 75	50,200	600	8	3.86	15.22	8.87	1.56	25.66	10.25	35.92
Tractor(60-89hp)CB	MFWD 75	56,800	600	8	3.86	15.22	8.87	1.77	25.87	11.60	37.47
Tractor(60-89hp)RB	2WD 75	35,800	600	8	3.86	15.22	8.87	1.11	25.21	7.31	32.53
Tractor(60-89hp)RB	MFWD 75	42,000	600	8	3.86	15.22	8.87	1.31	25.41	8.58	33.99
Tractor(90-119hp)CB	2WD 105	69,300	600	8	5.40	15.22	12.43	2.16	29.81	14.15	43.97
Tractor(90-119hp)CB	MFWD 105	88,100	600	8	5.40	15.22	12.43	2.75	30.40	17.99	48.40
Tractor(90-119hp)RB	2WD 105	62,300	600	8	5.40	15.22	12.43	1.94	29.59	12.72	42.32
Tractor(90-119hp)RB	MFWD 105	69,700	600	8	5.40	15.22	12.43	2.17	29.82	14.23	44.06
Tractor(120-139hp)CB	2WD 130	110,000	600	8	6.69	15.22	15.39	3.43	34.04	22.47	56.52
Tractor(120-139hp)CB	MFWD 130	125,000	600	8	6.69	15.22	15.39	3.90	34.51	25.53	60.05
Tractor(140-159hp)	2WD 150	108,000	600	8	7.72	15.22	17.75	3.37	36.35	22.06	58.41
Tractor(140-159hp)CB	MFWD 150	140,000	600	8	7.72	15.22	17.75	4.37	37.35	28.60	65.95
Tractor(160-179hp)CB	MFWD 170	155,000	600	8	8.75	15.22	20.12	4.84	40.18	32.95	73.14
Tractor(180-199hp)CB	MFWD 190	189,000	600	8	9.77	15.22	22.49	5.90	43.61	40.18	83.80
Tractor(200-249hp)CB	MFWD 225	227,000	600	8	11.58	15.22	26.63	7.09	48.95	48.27	97.22
Tractor(250-349hp)CB	4WD 300	298,000	600	8	15.44	15.22	35.51	9.31	60.04	63.36	123.41
Tractor(250-349hp)CB	MFWD 300	301,000	600	8	15.44	15.22	35.51	9.40	60.14	64.00	124.14
Tractor(250-349hp)CB	Track 300	327,000	600	8	15.44	15.22	35.51	10.21	60.95	69.53	130.48
Tractor(350-449hp)	Track 400	426,000	600	8	20.58	15.22	47.35	13.31	75.88	90.58	166.47
Tractor(350-449hp)CB	4WD 400	342,000	600	8	20.58	15.22	47.35	10.68	73.26	72.72	145.98
Tractor(450-550hp)CB	4WD 500	412,000	600	8	25.73	15.22	59.19	12.87	87.28	87.60	174.89
Tractor(450-550hp)CB	Track 500	466,000	600	8	25.73	15.22	59.19	14.56	88.97	99.09	188.06
Utility Vehicle	800 CC	12,200	200	8	0.70	15.22	1.54	1.90	18.66	8.08	26.75
Utility Vehicle	900 CC	15,800	200	8	1.00	15.22	2.20	2.46	19.88	10.47	30.36

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, 2020

Item Name	Size	Purchase	Annual	Useful	Fuel	Perf	Labor	Fuel	R&M	Total	Fixed	Total
		Price	Use	Life	Use	Rate				Direct		Cost
dollars hours years gal/hr hr/ac											-----\$/acre-----	
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	6.25	7.62	10.79	24.68	45.80	70.48
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.25	10.68	14.13	31.07	59.98	91.06
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.18	7.13	9.61	20.93	40.78	61.71
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	5.29	9.17	15.85	30.32	67.28	97.61
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.18	7.24	12.51	23.94	53.11	77.06
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.25	12.20	21.58	40.05	91.60	131.65
Cotton Picker/Module	6R-30 (500)	776,000	200	8	25.73	0.218	5.29	12.91	26.46	44.68	112.28	156.96
Cotton Picker/Module	6R-38 (500)	808,000	200	8	25.73	0.172	4.18	10.19	21.75	36.13	92.30	128.43
Dry Applicator SP	70'300cuft	344,000	350	8	16.98	0.015	0.29	0.59	0.27	1.16	1.96	3.13
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.34	0.36	0.20	0.91	1.44	2.35
Sprayer 600-825gal	80' 175hp	215,000	350	8	11.81	0.013	0.26	0.35	0.15	0.77	1.07	1.84
Sprayer 600-825gal	90' 250hp	316,000	350	8	12.73	0.011	0.23	0.34	0.19	0.77	1.40	2.18
Sprayer 800gal	100' 250hp	317,000	350	8	14.15	0.010	0.20	0.34	0.17	0.73	1.27	2.00
Sprayer 800gal	80' 250hp	287,000	350	8	12.86	0.013	0.26	0.39	0.20	0.85	1.43	2.29
Sprayer 1000-1400gal	90' 275hp	316,000	350	8	14.15	0.010	0.20	0.34	0.17	0.73	1.26	1.99
Sprayer 1000gal	100' 300hp	357,000	350	8	15.44	0.010	0.20	0.37	0.20	0.78	1.43	2.21
Sprayer 1200+gal	120' 300hp	376,000	350	8	15.44	0.008	0.17	0.31	0.17	0.66	1.25	1.91

Notes:

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

Direct: Does not include interest on operating capital.

Appendix Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2020

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--	Total	
			Price	Use	Life	Rate		Imp.	P.U.	Direct	Imp.	P.U.	Cost	
			dollars	hours	years	hr/ac			\$/acre					
Bed-Rip/Disk Fold.	8R-38	MFWD 190	48,700	300	20	0.073	1.11	1.64	0.17	0.43	3.36	0.96	2.93	7.26
Bed-Rip/Disk Fold.	12R-30	MFWD 225	67,900	300	20	0.061	0.93	1.64	0.20	0.43	3.22	1.13	2.97	7.32
Bed-Rip/Disk Fold.	12R-38	MFWD 225	67,900	300	20	0.046	0.70	1.23	0.15	0.32	2.41	0.84	2.23	5.49
Bed-Rip/Disk Rigid	4R-30	MFWD 190	21,400	300	20	0.184	2.81	4.15	0.19	1.09	8.26	1.06	7.42	16.76
Bed-Rip/Disk Rigid	4R-38	MFWD 190	21,400	300	20	0.146	2.23	3.30	0.15	0.86	6.55	0.84	5.89	13.30
Bed-Rip/Disk Rigid	6R-30	MFWD 190	29,800	300	20	0.123	1.87	2.77	0.18	0.72	5.55	0.99	4.95	11.50
Bed-Rip/Disk Rigid	6R-38	MFWD 190	39,800	300	20	0.097	1.48	2.18	0.19	0.57	4.43	1.04	3.91	9.39
Bed-Rip/Disk Rigid	8R-30	MFWD 190	39,800	300	20	0.139	2.11	3.12	0.27	0.82	6.33	1.49	5.58	13.42
Bed-Rip/Disk Rigid	8R-38	MFWD 190	29,800	300	20	0.073	1.11	1.64	0.10	0.43	3.29	0.58	2.93	6.82
Bed-Subsoil Fold	8R-38	MFWD 225	48,700	150	12	0.080	1.22	2.15	1.42	0.57	5.37	2.71	3.89	11.98
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	67,900	150	12	0.053	0.81	1.43	1.31	0.38	3.95	2.51	2.59	9.06
Bed-Subsoil Fold	12R-38	MFWD 225	67,900	150	12	0.053	0.81	1.43	1.31	0.38	3.95	2.51	2.59	9.06
Bed-Subsoil Rigid	4R-30	MFWD 225	21,400	150	12	0.204	3.10	5.44	1.57	1.44	11.58	3.01	9.86	24.45
Bed-Subsoil Rigid	4R-38	MFWD 225	21,400	150	12	0.160	2.44	4.28	1.24	1.14	9.11	2.37	7.76	19.25
Bed-Subsoil Rigid	6R-30	MFWD 225	29,800	150	12	0.136	2.07	3.62	1.46	0.96	8.13	2.79	6.57	17.50
Bed-Subsoil Rigid	6R-38	MFWD 225	29,800	150	12	0.107	1.63	2.86	1.15	0.76	6.42	2.20	5.19	13.82
Bed-Subsoil Rigid	8R-30	MFWD 225	39,800	150	12	0.102	1.55	2.72	1.46	0.72	6.46	2.80	4.93	14.20
Bed-Subsoil Rigid	8R-38	MFWD 225	39,800	150	12	0.080	1.22	2.15	1.16	0.57	5.11	2.21	3.89	11.22
Bed/Disk (Hipper)	4R-38	MFWD 150	9,200	160	10	0.147	2.24	2.62	0.33	0.64	5.85	0.97	4.22	11.05
Bed/Disk (Hipper)	6R-38	MFWD 170	15,200	160	10	0.098	1.50	1.98	0.37	0.47	4.34	1.07	3.25	8.67
Bed/Disk (Hipper)	8R-30	MFWD 190	19,500	160	10	0.093	1.42	2.10	0.45	0.55	4.54	1.31	3.76	9.62
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	37,400	160	10	0.049	0.75	1.10	0.46	0.29	2.61	1.32	1.98	5.92
Bed/Disk (Hipper)	12R-30	MFWD 225	34,500	160	10	0.062	0.95	1.66	0.53	0.44	3.59	1.54	3.01	8.16
Bed/Disk (Hipper)	12R-38	MFWD 225	37,400	160	10	0.049	0.75	1.31	0.46	0.35	2.87	1.32	2.38	6.58
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	27,200	160	10	0.074	1.12	1.66	0.50	0.43	3.73	1.44	2.97	8.16
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	21,000	160	10	0.074	1.12	1.66	0.38	0.43	3.62	1.11	2.97	7.71
Bed/Lister-Roll-Fo	8R-38	MFWD 190	24,300	160	10	0.095	1.45	2.15	0.58	0.56	4.76	1.67	3.85	10.29
Bed/Lister-Roll-Fo	12R-30	MFWD 225	36,175	160	10	0.080	1.23	2.15	0.73	0.57	4.69	2.10	3.90	10.69
Bed/Lister-Roll-Fo	12R-38	MFWD 225	35,700	160	10	0.063	0.97	1.70	0.56	0.45	3.69	1.63	3.08	8.41
Bed/Lister-Roll-Fo	16R-30	MFWD 225	40,400	160	10	0.060	0.92	1.61	0.61	0.43	3.58	1.76	2.92	8.27
Bed/Lister-Roll-Ri	8R-38	MFWD 190	24,300	160	10	0.095	1.45	2.15	0.58	0.56	4.76	1.67	3.85	10.29
Blade-Box	6'-7'	MFWD 105	1,620	200	20	0.020	0.30	0.24	0.01	0.04	0.61	0.01	0.28	0.91
Blade-Box	8'-10'	MFWD 105	3,830	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	MFWD 105	1,330	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	MFWD 105	4,100	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	3.92	5.79	1.96	1.52	13.20	4.37	10.36	27.94
Boll Buggy	4R-38 (350)	MFWD 190	30,500	200	10	0.257	3.92	5.79	1.96	1.52	13.20	4.37	10.36	27.94
Boll Buggy	4R2x1 (350)	MFWD 190	30,500	200	10	0.172	2.62	3.87	1.31	1.01	8.82	2.92	6.92	18.67
Boll Buggy	6R-30 (355)	MFWD 190	30,500	200	10	0.218	3.32	4.90	1.66	1.28	11.18	3.70	8.77	23.65
Boll Buggy	6R-38 (355)	MFWD 190	30,500	200	10	0.172	2.62	3.87	1.31	1.01	8.82	2.92	6.92	18.67
Chisel Plow-Folding	24'	MFWD 190	42,200	150	12	0.076	1.16	1.71	1.16	0.45	4.49	2.22	3.07	9.79
Chisel Plow-Folding	32'	MFWD 225	54,200	150	12	0.057	0.87	1.53	1.13	0.40	3.95	2.15	2.78	8.90
Chisel Plow-Folding	42'	MFWD 225	65,100	150	12	0.044	0.66	1.17	1.03	0.31	3.18	1.97	2.12	7.28
Chisel Plow-Folding	50'	MFWD 225	85,200	150	12	0.036	0.56	0.98	1.13	0.26	2.94	2.17	1.78	6.90
Chisel Plow-Folding	61'	MFWD 225	97,700	150	12	0.030	0.46	0.80	1.06	0.21	2.55	2.04	1.46	6.05
Chisel Plow-Rigid	10'	MFWD 170	7,790	150	12	0.184	2.81	3.72	0.52	0.89	7.94	0.99	6.09	15.03
Chisel Plow-Rigid	15'	2WD 130	14,700	150	12	0.123	1.87	1.89	0.65	0.42	4.85	1.24	2.76	8.86
Chisel Plow-Rigid	20'	MFWD 225	12,000	150	12	0.102	1.56	2.73	0.44	0.72	5.47	0.84	4.95	11.28
Cultivate	4R-30	2WD 105	14,600	150	10	0.206	3.13	2.56	0.80	0.44	6.95	2.30	2.92	12.18
Cultivate	4R-38	2WD 105	14,200	150	10	0.162	2.47	2.01	0.61	0.31	5.42	1.76	2.06	9.25
Cultivate	6R-30	MFWD 150	18,500	150	10	0.137	2.09	2.44	0.67	0.60	5.81	1.94	3.93	11.69
Cultivate	6R-38	MFWD 150	19,300	150	10	0.108	1.65	1.92	0.55	0.47	4.61	1.60	3.10	9.32
Cultivate	8R-30	MFWD 190	24,200	150	10	0.103	1.56	2.31	0.66	0.60	5.16	1.91	4.14	11.22
Cultivate	8R-38	MFWD 190	27,300	150	10	0.073	1.12	1.65	0.53	0.43	3.74	1.54	2.96	8.25
Cultivate	8R-38 2x1	MFWD 190	39,300	150	10	0.054	0.82	1.22	0.56	0.32	2.93	1.63	2.18	6.75
Cultivate	12R-30	MFWD 225	45,600	150	10	0.068	1.04	1.83	0.83	0.48	4.20	2.40	3.31	9.92
Cultivate	12R-38	MFWD 225	44,600	150	10	0.054	0.82	1.44	0.64	0.38	3.30	1.85	2.62	7.77
Cultivate	16R-30	MFWD 225	58,400	150	10	0.051	0.78	1.37	0.80	0.36	3.32	2.30	2.48	8.12
Cultivate & Post	4R-30	2WD 105	21,900	150	10	0.220	4.34	2.73	1.28	0.42	8.79	3.69	2.80	15.28
Cultivate & Post	4R-38	2WD 105	21,600	150	10	0.173	3.42	2.15	0.99	0.33	6.90	2.86	2.20	11.98
Cultivate & Post	6R-30	MFWD 150	25,900	150	10	0.146	2.89	2.60	1.01	0.64	7.15	2.91	4.19	14.26
Cultivate & Post	6R-38	MFWD 150	26,600	150	10	0.115	2.28	2.05	0.82	0.50	5.67	2.36	3.31	11.34
Cultivate & Post	8R-30	MFWD 190	31,500	150	10	0.110	2.17	2.47	0.92	0.64	6.22	2.65	4.42	13.29
Cultivate & Post	8R-38	MFWD 190	34,700	150	10	0.086	1.71	1.95	0.80	0.51	4.99	2.31	3.49	10.79
Cultivate & Post	8R-38 2x1	MFWD 190	47,900	150	10	0.057	1.14	1.30	0.73	0.34	3.52	2.12	2.32	7.97
Cultivate & Post	12R-30	MFWD 225	52,900	150	10	0.073	1.44	1.95	1.03	0.52	4.95	2.97	3.53	11.46
Cultivate & Post	12R-38	MFWD 225	53,200	150	10	0.057	1.14	1.54	0.82	0.41	3.91	2.36	2.79	9.07
Cultivate & Post	16R-30	MFWD 225	61,700	150	10	0.055	1.08	1.46	0.90	0.39	3.84	2.60	2.65	9.10
Disk & Incorporate	14'	2WD 130	33,200	200	10	0.149	2.95	2.30	1.49	0.51	7.26	2.85	3.36	13.48
Disk & Incorporate	20'	MFWD 190	75,700	200	10	0.092	1.40	2.07	2.09	0.54	6.13	4.02	3.71	13.86
Disk & Incorporate	24'	MFWD 190	51,800	200	10	0.087	1.72	1.96	1.35	0.51	5.56	2.59	3.50	11.66
Disk & Incorporate	28'	MFWD 225	61,200	200	10	0.074	1.47	1.99	1.37	0.53	5.37	2.63	3.61	11.62
Disk & Incorporate	32'	MFWD 225	66,900	200	10	0.065	1.29	1.74	1.31	0.46	4.81	2.51	3.16	10.49

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2020 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Imp.	Total P.U.	Total Cost	
									Imp.	P.U.	Direct			
dollars hours years hr/ac -----\$/acre-----														
Disk Harrow	42'	MFWD 225	98,700	180	10	0.046	0.71	1.24	1.28	0.33	3.57	2.94	2.25	8.77
Disk Harrow 40-100hp	14'	2WD 75	16,700	180	10	0.140	2.13	1.24	0.65	0.15	4.18	1.49	1.02	6.71
Disk Heavy	14'	MFWD 150	25,900	180	10	0.145	2.22	2.59	1.05	0.63	6.50	2.41	4.17	13.09
Disk Heavy	20'	MFWD 190	45,000	180	10	0.097	1.48	2.18	1.21	0.57	5.46	2.79	3.91	12.16
Disk Heavy	28'	MFWD 225	53,800	180	10	0.075	1.15	2.01	1.13	0.53	4.83	2.60	3.65	11.08
Disk Ripper	15'	MFWD 225	49,200	180	10	0.136	2.07	3.62	1.86	0.96	8.52	4.28	6.57	19.38
Ditcher		2WD 130	6,100	200	10	0.020	0.30	0.30	0.04	0.06	0.72	0.07	0.44	1.24
Ditcher (1m/160a)		2WD 130	6,100	200	10	0.009	0.14	0.14	0.02	0.03	0.34	0.03	0.21	0.58
Fert Appl (Liquid)	4R-38	MFWD 150	12,900	150	8	0.154	3.05	2.74	1.33	0.67	7.80	1.63	4.42	13.86
Fert Appl (Liquid)	6R-30	MFWD 170	18,500	150	8	0.130	2.58	2.63	1.61	0.63	7.47	1.97	4.31	13.76
Fert Appl (Liquid)	6R-38	MFWD 170	18,500	150	8	0.103	2.04	2.08	1.27	0.50	5.89	1.56	3.40	10.86
Fert Appl (Liquid)	8R-30	MFWD 190	18,400	150	8	0.098	1.93	2.20	1.20	0.58	5.93	1.47	3.94	11.35
Fert Appl (Liquid)	8R-38	MFWD 190	19,000	150	8	0.077	1.53	1.74	0.98	0.45	4.72	1.20	3.12	9.04
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	21,600	150	8	0.051	1.02	1.16	0.74	0.30	3.23	0.91	2.07	6.22
Fert Appl (Liquid)	12R-30	MFWD 225	23,100	150	8	0.078	1.55	2.09	1.20	0.55	5.41	1.48	3.79	10.68
Fert Appl (Liquid)	12R-38	MFWD 225	21,600	150	8	0.051	1.02	1.37	0.74	0.36	3.50	0.91	2.49	6.91
Field Cult & Inc	42'	MFWD 225	67,100	100	10	0.037	0.74	1.00	0.63	0.26	2.65	2.91	1.82	7.39
Field Cult & Inc	50'	MFWD 225	81,500	100	10	0.031	0.62	0.84	0.64	0.22	2.34	2.97	1.53	6.84
Field Cult & Inc Fld	24'	MFWD 170	37,900	100	10	0.066	1.30	1.33	0.62	0.32	3.58	2.88	2.17	8.64
Field Cult & Inc Fld	32'	MFWD 190	51,500	100	10	0.049	0.97	1.11	0.63	0.29	3.02	2.93	1.99	7.95
Field Cult & Inc Rdg	12'	2WD 150	19,600	100	10	0.132	2.61	2.34	0.64	0.44	6.05	2.97	2.91	11.94
Field Cultivate Fld	24'	MFWD 170	30,600	100	10	0.062	0.94	1.25	0.47	0.30	2.97	2.18	2.05	7.21
Field Cultivate Fld	32'	MFWD 190	42,900	100	10	0.046	0.71	1.04	0.50	0.27	2.53	2.30	1.87	6.71
Field Cultivate Fld	42'	MFWD 225	58,400	100	10	0.035	0.54	0.94	0.51	0.25	2.25	2.38	1.71	6.36
Field Cultivate Fld	50'	MFWD 225	67,800	100	10	0.029	0.45	0.79	0.50	0.21	1.96	2.32	1.44	5.73
Field Cultivate Rdg	12'	2WD 150	12,300	100	10	0.124	1.89	2.20	0.38	0.41	4.90	1.75	2.74	9.41
Grain Cart Corn	500 bu	MFWD 190	25,700	200	12	0.025	0.38	0.56	0.17	0.14	1.27	0.33	1.01	2.63
Grain Cart Corn	700 bu	MFWD 190	37,300	200	12	0.025	0.38	0.56	0.25	0.14	1.35	0.48	1.01	2.86
Grain Cart Corn	1000 bu	MFWD 225	54,700	200	12	0.025	0.38	0.67	0.37	0.17	1.61	0.71	1.22	3.54
Grain Cart Rice	500 bu	MFWD 190	25,700	200	12	0.062	0.95	1.40	0.43	0.36	3.16	0.83	2.51	6.50
Grain Cart Rice	700 bu	MFWD 190	37,300	200	12	0.055	0.83	1.23	0.55	0.32	2.95	1.06	2.21	6.22
Grain Cart Rice	1000 bu	MFWD 190	54,700	200	12	0.045	0.69	1.03	0.67	0.27	2.67	1.29	1.84	5.81
Grain Cart Soybean	500 bu	MFWD 190	25,700	200	12	0.025	0.38	0.57	0.17	0.15	1.28	0.33	1.02	2.65
Grain Cart Soybean	700 bu	MFWD 190	37,300	200	12	0.021	0.32	0.47	0.21	0.12	1.14	0.40	0.85	2.40
Grain Cart Soybean	1000 bu	MFWD 190	54,700	200	12	0.021	0.32	0.47	0.31	0.12	1.24	0.60	0.85	2.69
Grain Cart Wht/Sor	500 bu	MFWD 190	25,700	200	12	0.025	0.38	0.57	0.17	0.15	1.28	0.33	1.02	2.65
Grain Cart Wht/Sor	700 bu	MFWD 190	37,300	200	12	0.021	0.32	0.47	0.21	0.12	1.14	0.40	0.85	2.40
Grain Cart Wht/Sor	1000 bu	MFWD 190	54,700	200	12	0.021	0.32	0.47	0.31	0.12	1.24	0.60	0.85	2.69
Grain Drill	10'	2WD 130	28,000	150	8	0.188	4.57	2.90	1.97	0.64	10.10	4.13	4.23	18.48
Grain Drill	12'	2WD 130	27,500	150	8	0.157	3.81	2.41	1.62	0.54	8.39	3.38	3.53	15.31
Grain Drill	15'	MFWD 150	33,100	150	8	0.125	3.05	2.23	1.56	0.54	7.39	3.26	3.59	14.25
Grain Drill	20'	MFWD 170	39,400	150	8	0.094	2.28	1.89	1.39	0.45	6.03	2.91	3.10	12.05
Grain Drill	24'	MFWD 190	65,600	150	8	0.078	1.90	1.76	1.93	0.46	6.07	4.03	3.15	13.26
Grain Drill	30'	MFWD 225	63,800	150	8	0.062	1.52	1.67	1.50	0.44	5.15	3.14	3.03	11.32
Grain Drill	35'	MFWD 225	91,000	150	8	0.053	1.30	1.43	1.83	0.38	4.96	3.84	2.60	11.40
Grain Drill & Pre	10'	2WD 130	35,400	150	8	0.203	4.93	3.12	2.69	0.69	11.45	5.63	4.56	21.64
Grain Drill & Pre	12'	2WD 130	34,800	150	8	0.169	4.10	2.60	2.20	0.58	9.50	4.61	3.80	17.92
Grain Drill & Pre	15'	MFWD 150	40,400	150	8	0.135	3.28	2.40	2.05	0.59	8.33	4.28	3.87	16.49
Grain Drill & Pre	20'	MFWD 170	46,700	150	8	0.101	2.46	2.04	1.77	0.49	6.77	3.71	3.34	13.84
Grain Drill & Pre	24'	MFWD 190	73,000	150	8	0.084	2.05	1.90	2.31	0.49	6.77	4.84	3.40	15.01
Grain Drill & Pre	30'	MFWD 225	71,200	150	8	0.067	1.64	1.80	1.80	0.48	5.73	3.77	3.26	12.77
Grain Drill & Pre	35'	MFWD 225	98,300	150	8	0.058	1.40	1.54	2.13	0.41	5.50	4.47	2.80	12.77
Grain Drill & Pre T	8R-38	MFWD 225	51,900	150	8	0.062	1.52	1.67	1.22	0.44	4.86	2.55	3.03	10.46
Harrow - Folding	24'	MFWD 190	13,700	200	10	0.064	0.98	1.45	0.31	0.38	3.13	0.50	2.60	6.24
Harrow - Folding	30'	MFWD 190	14,800	200	10	0.051	0.78	1.16	0.26	0.30	2.52	0.44	2.08	5.04
Harrow - Folding	40'	MFWD 190	20,200	200	10	0.038	0.59	0.87	0.27	0.22	1.96	0.45	1.56	3.97
Harrow - Folding	48'	MFWD 225	24,900	200	10	0.032	0.49	0.86	0.28	0.22	1.86	0.46	1.56	3.89
Header - Corn	6R-30	265 hp	50,800	300	8	0.170	2.59	5.34	2.16	6.24	16.33	3.53	26.49	46.36
Header - Corn	6R-38	265 hp	51,400	300	8	0.134	2.04	4.21	1.72	4.92	12.91	2.82	20.91	36.65
Header - Corn	8R-30	265 hp	62,000	300	8	0.127	1.94	4.00	1.97	4.68	12.61	3.23	19.86	35.71
Header - Corn	8R-38	325 hp	67,000	300	8	0.100	1.53	3.88	1.69	4.02	11.14	2.76	17.09	30.99
Header - Corn	12R-20	325 hp	102,000	300	8	0.127	1.94	4.91	3.25	5.09	15.20	5.32	21.61	42.15
Header - Corn	12R-30	325 hp	103,000	300	8	0.085	1.29	3.27	2.19	3.39	10.16	3.58	14.41	28.15
Header - Draper (CL)	25' Rigid	265 hp	61,400	300	8	0.203	3.09	6.37	2.85	7.44	19.76	4.88	31.59	56.24
Header - Draper (CL)	30' Rigid	325 hp	71,500	300	8	0.169	2.57	6.51	2.77	6.75	18.61	4.74	28.64	52.00
Header - Draper (CL)	36' Rigid	355 hp	75,800	300	8	0.141	2.14	5.92	2.44	5.80	16.32	4.18	24.62	45.13
Header - Draper (CL)	40' Rigid	425 hp	80,300	300	8	0.126	1.93	6.38	2.33	5.61	16.27	3.99	23.84	44.10
Header - Draper (SL)	25' Rigid	325 hp	61,400	300	8	0.176	2.67	6.77	2.47	7.02	18.94	4.23	29.79	52.97
Header - Draper (SL)	30' Rigid	325 hp	71,500	300	8	0.146	2.23	5.64	2.40	5.85	16.13	4.10	24.82	45.06
Header - Draper (SL)	36' Rigid	355 hp	75,800	300	8	0.122	1.86	5.13	2.12	5.02	14.14	3.63	21.33	39.11
Header - Draper	40' Rigid	425 hp	80,300	300	8	0.110	1.67	5.53	2.02	4.86	14.10	3.46	20.66	38.22
Header - RiceStrp(CL)	20'	265 hp	50,000	300	8	0.253	3.86	7.96	3.17	9.30	24.30	5.18	39.49	68.98
Header - RiceStrp(CL)	24'	325 hp	55,400	300	8	0.211	3.21	8.13	2.92	8.43	22.72	4.78	35.80	63.32
Header - RiceStrp(CL)	32'	325 hp	60,800	300	8	0.158	2.41	6.10	2.41	6.32	17.26	3.94	26.85	48.

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2020 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	Total P.U.	Total Cost
									Imp.	P.U.	Direct			
Header -Soybean	22' Flex	265 hp	33,500	300	8	0.116	1.76	3.64	0.97	4.25	10.63	1.58	18.06	30.29
Header -Soybean	25' Flex	325 hp	35,900	300	8	0.102	1.55	3.93	0.91	4.07	10.47	1.49	17.29	29.27
Header -Soybean	30' Flex	325 hp	42,400	300	8	0.085	1.29	3.27	0.90	3.39	8.87	1.47	14.41	24.75
Header -Soybean	35' Flex	355 hp	48,700	300	8	0.072	1.11	3.06	0.88	3.00	8.06	1.45	12.74	22.26
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.76	3.64	0.57	4.25	10.24	0.93	18.06	29.24
Header Wheat/Sorghum	25' Rigid	325 hp	21,000	300	8	0.102	1.55	3.93	0.53	4.07	10.09	0.87	17.29	28.27
Header Wheat/Sorghum	30' Rigid	325 hp	25,700	300	8	0.085	1.29	3.27	0.54	3.39	8.51	0.89	14.41	23.82
Land Plane	50'x16'	MFWD 190	10,800	200	10	0.151	2.30	3.41	0.32	0.89	6.94	0.94	6.09	13.97
Levee Pull & Seed	8 Blade	MFWD 170	9,000	100	10	0.003	0.05	0.07	0.00	0.01	0.14	0.03	0.11	0.30
Levee Pull (1m/80a)	8 blade	MFWD 170	8,160	100	10	0.003	0.05	0.07	0.00	0.01	0.14	0.03	0.11	0.30
Levee Splitter (1/80)	32"	MFWD 150	8,160	100	10	0.004	0.06	0.07	0.00	0.01	0.16	0.03	0.11	0.32
Module Builder	4R-38 (250)	MFWD 190	34,700	200	10	0.257	6.25	5.79	2.23	1.52	15.18	4.97	10.36	31.15
Module Builder	4R-38 (350)	MFWD 190	34,700	200	10	0.257	6.25	5.79	2.23	1.52	15.81	4.97	10.36	31.15
Module Builder	4R2x1 (350)	MFWD 190	34,700	200	10	0.172	4.18	3.87	1.49	1.01	10.57	3.32	6.92	20.82
Module Builder	6R-30 (355)	MFWD 190	34,700	200	10	0.218	5.29	4.90	1.89	1.28	13.39	4.21	8.77	26.37
Module Builder	6R-38 (355)	MFWD 190	34,700	200	10	0.172	4.18	3.87	1.49	1.01	10.57	3.32	6.92	20.82
NT Grain Drill	10'	2WD 130	34,100	150	8	0.235	5.72	3.62	3.01	0.81	13.17	6.30	5.29	24.77
NT Grain Drill	12'	2WD 130	46,100	150	8	0.163	3.97	2.51	2.82	0.56	9.88	5.91	3.67	19.47
NT Grain Drill	15'	MFWD 150	55,500	150	8	0.130	3.17	2.32	2.72	0.57	8.80	5.69	3.74	18.24
NT Grain Drill	20'	MFWD 170	65,100	150	8	0.098	2.38	1.97	2.39	0.47	7.23	5.01	3.23	15.48
NT Grain Drill	24'	MFWD 190	90,400	150	8	0.081	1.98	1.84	2.77	0.48	7.08	5.79	3.28	16.17
NT Grain Drill	30'	MFWD 225	103,000	150	8	0.065	1.58	1.74	2.52	0.46	6.32	5.28	3.16	14.77
NT Grain Drill & Pre	10'	2WD 130	41,500	150	8	0.211	5.13	3.25	3.29	0.72	12.41	6.88	4.75	24.04
NT Grain Drill & Pre	12'	2WD 130	53,400	150	8	0.176	4.28	2.71	3.53	0.60	11.12	7.37	3.96	22.46
NT Grain Drill & Pre	15'	MFWD 150	62,900	150	8	0.141	3.42	2.50	3.32	0.61	9.87	6.95	4.03	20.85
NT Grain Drill & Pre	20'	MFWD 170	72,500	150	8	0.105	2.56	2.12	2.87	0.51	8.08	6.01	3.48	17.58
NT Grain Drill & Pre	24'	MFWD 190	97,800	150	8	0.088	2.14	1.98	3.23	0.52	7.87	6.75	3.54	18.17
NT Grain Drill & Pre	30'	MFWD 225	110,700	150	8	0.070	1.71	1.87	2.92	0.50	7.01	6.11	3.40	16.53
NT Plant&Pre-Folding	8R-38	MFWD 170	67,100	150	8	0.083	2.03	1.68	2.10	0.40	6.22	4.39	2.75	13.37
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	99,600	150	8	0.055	1.35	1.12	2.07	0.26	4.82	4.34	1.83	11.00
NT Plant&Pre-Folding	12R-20	MFWD 190	83,300	150	8	0.105	2.56	2.37	3.30	0.62	8.87	6.90	4.25	20.03
NT Plant&Pre-Folding	12R-30	MFWD 190	89,600	150	8	0.070	1.71	1.58	2.36	0.41	6.08	4.95	2.83	13.86
NT Plant&Pre-Folding	12R-38	MFWD 190	99,600	150	8	0.055	1.35	1.25	2.07	0.32	5.01	4.34	2.23	11.59
NT Plant&Pre-Folding	16R-30	MFWD 190	129,000	150	8	0.052	1.28	1.18	2.55	0.31	5.34	5.34	2.12	12.81
NT Plant&Pre-Folding	23R-15	MFWD 190	163,000	150	8	0.073	1.78	1.65	4.48	0.43	8.35	9.38	2.95	20.69
NT Plant&Pre-Folding	24R-20	MFWD 190	182,000	150	8	0.052	1.28	1.18	3.60	0.31	6.39	7.54	2.12	16.06
NT Plant&Pre-Folding	24R-30	MFWD 190	208,000	150	8	0.035	0.85	0.79	2.75	0.20	4.60	5.74	1.41	11.77
NT Plant&Pre-Folding	31R-15	MFWD 225	194,000	150	8	0.054	1.32	1.45	3.97	0.38	7.14	8.31	2.63	18.09
NT Plant&Pre-Folding	32R-15	MFWD 225	210,000	150	8	0.052	1.28	1.40	4.16	0.37	7.23	8.70	2.55	18.48
NT Plant&Pre-Rigid	4R-30	2WD 130	34,600	150	8	0.211	5.13	3.25	2.74	0.72	11.86	5.73	4.75	22.35
NT Plant&Pre-Rigid	4R-38	2WD 130	35,600	150	8	0.166	4.04	2.56	2.22	0.57	9.40	4.64	3.74	17.79
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,700	150	8	0.141	3.42	2.50	2.31	0.61	8.85	4.83	4.03	17.72
NT Plant&Pre-Rigid	6R-38	MFWD 150	42,900	150	8	0.111	2.70	1.97	1.79	0.48	6.95	3.74	3.18	13.88
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,300	150	8	0.105	2.56	2.12	2.15	0.51	7.36	4.50	3.48	15.35
NT Plant&Pre-Rigid	8R-38	MFWD 170	51,700	150	8	0.083	2.03	1.68	1.62	0.40	5.73	3.38	2.75	11.88
NT Plant&Pre-Rigid	11R-15	MFWD 170	63,600	150	8	0.143	3.49	2.89	3.43	0.69	10.51	7.17	4.74	22.43
NT Plant&Pre-Rigid	11R-20	MFWD 170	62,900	150	8	0.115	2.80	2.32	2.72	0.55	8.41	5.69	3.80	17.92
NT Plant&Pre-Rigid	12R-20	MFWD 190	65,900	150	8	0.105	2.56	2.37	2.61	0.62	8.18	5.46	4.25	17.90
NT Plant&Pre-Rigid	12R-30	MFWD 190	79,300	150	8	0.070	1.71	1.58	2.09	0.41	5.81	4.38	2.83	13.02
NT Plant&Pre-Rigid	15R-15	MFWD 190	80,900	150	8	0.113	2.74	2.54	3.43	0.66	9.39	7.17	4.54	21.11
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	154,000	150	8	0.055	1.35	1.48	3.21	0.39	6.44	6.71	2.68	15.85
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	123,000	150	8	0.083	2.03	2.22	3.85	0.59	8.70	8.06	4.03	20.80
NT Plant-Folding	8R-38	MFWD 170	59,700	150	8	0.077	1.88	1.56	1.73	0.37	5.56	3.63	2.55	11.75
NT Plant-Folding	8R-38 2x1	MFWD 170	91,000	150	8	0.051	1.25	1.04	1.76	0.25	4.30	3.68	1.70	9.70
NT Plant-Folding	12R-20	MFWD 190	75,900	150	8	0.098	2.38	2.20	2.79	0.58	7.96	5.84	3.94	17.75
NT Plant-Folding	12R-30	MFWD 190	81,000	150	8	0.065	1.58	1.47	1.98	0.38	5.43	4.15	2.63	12.22
NT Plant-Folding	12R-38	MFWD 190	91,000	150	8	0.051	1.25	1.16	1.76	0.30	4.48	3.68	2.07	10.25
NT Plant-Folding	16R-30	MFWD 190	120,000	150	8	0.049	1.19	1.10	2.20	0.29	4.79	4.61	1.97	11.38
NT Plant-Folding	23R-15	MFWD 190	155,000	150	8	0.068	1.65	1.53	3.96	0.40	7.55	8.28	2.74	18.58
NT Plant-Folding	24R-20	MFWD 190	174,000	150	8	0.049	1.19	1.10	3.20	0.29	5.79	6.69	1.97	14.46
NT Plant-Folding	24R-30	MFWD 190	194,000	150	8	0.032	0.79	0.73	2.38	0.19	4.10	4.97	1.31	10.40
NT Plant-Folding	31R-15	MFWD 225	185,000	150	8	0.050	1.23	1.35	3.52	0.36	6.46	7.36	2.45	16.27
NT Plant-Folding	32R-15	MFWD 225	201,000	150	8	0.049	1.19	1.30	3.70	0.34	6.55	7.73	2.37	16.65
NT Plant-Rigid	4R-30	2WD 130	27,200	150	8	0.196	4.76	3.02	2.00	0.67	10.47	4.18	4.41	19.07
NT Plant-Rigid	4R-38	2WD 130	28,200	150	8	0.154	3.75	2.38	1.63	0.53	8.30	3.41	3.47	15.19
NT Plant-Rigid	6R-30	MFWD 150	36,300	150	8	0.130	3.17	2.32	1.78	0.57	7.86	3.72	3.74	15.33
NT Plant-Rigid	6R-38	MFWD 150	35,600	150	8	0.103	2.51	1.83	1.38	0.45	6.17	2.88	2.95	12.01
NT Plant-Rigid	8R-30	MFWD 170	46,900	150	8	0.098	2.38	1.97	1.72	0.47	6.56	3.61	3.23	13.41
NT Plant-Rigid	8R-38	MFWD 170	44,300	150	8	0.077	1.88	1.56	1.28	0.37	5.11	2.69	2.55	10.36
NT Plant-Rigid	11R-15	MFWD 170	56,200	150	8	0.133	3.24	2.68	2.81	0.64	9.39	5.88	4.40	19.68
NT Plant-Rigid	11R-20	MFWD 170	55,500	150	8	0.107	2.60	2.16	2.23	0.51	7.52	4.66	3.53	15.72
NT Plant-Rigid	12R-20	MFWD 190	58,600	150	8	0.098	2.38	2.20	2.15	0.58	7.33	4.51	3.94	15.78
NT Plant-Rigid	12R-30	MFWD 190	70,700	150	8	0.065	1.58	1.47	1.73	0.38	5.18	3.62	2.63	11.44
NT Plant-Rigid	15R-15	MFWD 190	72,300</											

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2020 (continued)

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---			Total	--Fixed--	Total
			Price	Use	Life	Rate		Imp.	P.U.	Direct	Imp.	P.U.		
Peanut Dig/Invertor	6R-38	MFWD 190	46,500	300	15	0.124	1.88	2.79	1.01	0.73	6.42	1.89	4.98	13.30
Peanut Dump Cart	6-Row	MFWD 190	52,400	300	20	0.310	4.71	6.97	0.94	1.83	14.46	4.38	12.45	31.31
Peanut Harvester	4R-30	MFWD 225	150,000	300	20	0.849	12.93	22.64	7.22	6.02	48.83	32.18	41.02	122.04
Peanut Harvester	4R-38	MFWD 225	150,000	300	20	0.934	14.22	24.89	7.94	6.62	53.69	36.62	45.11	135.42
Peanut Harvester	6R-38	MFWD 225	165,000	300	20	0.625	9.51	16.64	4.98	4.43	35.57	26.94	30.16	92.68
Peanut Lifter	6-Row	MFWD 225	7,160	300	20	0.100	1.52	2.66	0.14	0.70	5.04	0.18	4.82	10.05
Peanut Plt&Pre Fold.	12R-38	MFWD 190	88,900	150	8	0.080	1.95	1.80	2.68	0.47	6.91	5.60	3.23	15.75
Peanut Plt&Pre Rigid	8R-30	MFWD 190	47,100	150	8	0.152	3.70	3.43	2.69	0.90	10.74	5.64	6.14	22.52
Peanut Plt&Pre Rigid	8R-38	MFWD 190	44,600	150	8	0.120	2.93	2.71	2.01	0.71	8.38	4.22	4.85	17.45
Peanut Plt&Pre Twin	8R-30/40	MFWD 190	114,000	150	8	0.120	2.93	2.71	5.16	0.71	11.52	10.79	4.85	27.17
Pipe Spool 160ac	1/4m roll	2WD 130	5,400	15	12	0.003	0.10	0.04	0.00	0.01	0.17	0.11	0.07	0.35
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.19	0.05	0.00	0.01	0.26	0.00	0.08	0.35
Plant & Pre-Folding	8R-38	MFWD 170	59,900	150	8	0.080	1.94	1.61	1.80	0.38	5.75	3.76	2.64	12.17
Plant & Pre-Folding	8R-38 2x1	MFWD 170	88,900	150	8	0.053	1.29	1.07	1.78	0.25	4.41	3.72	1.76	9.89
Plant & Pre-Folding	12R-20	MFWD 190	72,600	150	8	0.101	2.46	2.28	2.76	0.59	8.11	5.77	4.08	17.97
Plant & Pre-Folding	12R-30	MFWD 190	78,900	150	8	0.067	1.64	1.52	2.00	0.39	5.56	4.18	2.72	12.47
Plant & Pre-Folding	12R-38	MFWD 190	88,900	150	8	0.053	1.29	1.20	1.78	0.31	4.59	3.72	2.14	10.46
Plant & Pre-Folding	16R-30	MFWD 190	115,000	150	8	0.050	1.23	1.14	2.18	0.29	4.86	4.57	2.04	11.48
Plant & Pre-Folding	23R-15	MFWD 190	143,000	150	8	0.070	1.71	1.58	3.78	0.41	7.49	7.90	2.83	18.23
Plant & Pre-Folding	24R-20	MFWD 190	161,000	150	8	0.050	1.23	1.14	3.06	0.29	5.73	6.40	2.04	14.18
Plant & Pre-Folding	24R-30	MFWD 190	186,000	150	8	0.033	0.82	0.76	2.36	0.19	4.14	4.93	1.36	10.43
Plant & Pre-Folding	31R-15	MFWD 225	166,000	150	8	0.052	1.27	1.39	3.26	0.37	6.31	6.82	2.53	15.66
Plant & Pre-Folding	32R-15	MFWD 225	181,000	150	8	0.050	1.23	1.35	3.44	0.36	6.39	7.20	2.45	16.04
Plant & Pre-Rigid	4R-30	2WD 130	31,000	150	8	0.203	4.93	3.12	2.36	0.69	11.11	4.93	4.56	20.61
Plant & Pre-Rigid	4R-38	2WD 130	32,000	150	8	0.159	3.88	2.46	1.91	0.54	8.81	4.01	3.59	16.41
Plant & Pre-Rigid	6R-30	MFWD 150	38,300	150	8	0.135	3.28	2.40	1.94	0.59	8.22	4.06	3.87	16.16
Plant & Pre-Rigid	6R-38	MFWD 150	37,600	150	8	0.106	2.59	1.89	1.50	0.46	6.46	3.14	3.05	12.67
Plant & Pre-Rigid	8R-30	MFWD 170	47,100	150	8	0.101	2.46	2.04	1.79	0.49	6.79	3.74	3.34	13.88
Plant & Pre-Rigid	8R-38	MFWD 170	44,600	150	8	0.080	1.94	1.61	1.34	0.38	5.29	2.80	2.64	10.74
Plant & Pre-Rigid	11R-15	MFWD 170	53,800	150	8	0.148	3.59	2.98	2.99	0.71	10.29	6.25	4.88	21.42
Plant & Pre-Rigid	11R-20	MFWD 170	53,000	150	8	0.110	2.69	2.23	2.20	0.53	7.67	4.60	3.65	15.93
Plant & Pre-Rigid	12R-20	MFWD 190	55,200	150	8	0.101	2.46	2.28	2.10	0.59	7.45	4.39	4.08	15.92
Plant & Pre-Rigid	12R-30	MFWD 190	68,600	150	8	0.067	1.64	1.52	1.74	0.39	5.30	3.63	2.72	11.66
Plant & Pre-Rigid	15R-15	MFWD 190	67,500	150	8	0.108	2.63	2.44	2.74	0.64	8.46	5.74	4.36	18.58
Plant & Pre-TwinRow	12R-30/40	MFWD 225	143,000	150	8	0.053	1.29	1.42	2.86	0.37	5.96	5.98	2.57	14.53
Plant & Pre-TwinRow	8R-30/40	MFWD 225	116,000	150	8	0.080	1.94	2.13	3.49	0.56	8.14	7.29	3.87	19.32
Plant - Folding	8R-38	MFWD 170	52,600	150	8	0.074	1.80	1.49	1.47	0.36	5.14	3.07	2.45	10.66
Plant - Folding	8R-38 2x1	MFWD 170	80,200	150	8	0.049	1.20	0.99	1.49	0.24	3.93	3.11	1.63	8.69
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.28	2.12	2.30	0.55	7.27	4.81	3.78	15.88
Plant - Folding	12R-30	MFWD 190	70,300	150	8	0.062	1.52	1.41	1.65	0.37	4.96	3.46	2.52	10.95
Plant - Folding	12R-38	MFWD 190	80,200	150	8	0.049	1.20	1.11	1.49	0.29	4.10	3.11	1.99	9.21
Plant - Folding	16R-30	MFWD 190	10,600	150	8	0.047	1.14	1.06	0.18	0.27	2.67	0.39	1.89	4.95
Plant - Folding	23R-15	MFWD 190	134,000	150	8	0.065	1.58	1.47	3.29	0.38	6.73	6.87	2.63	16.24
Plant - Folding	24R-20	MFWD 190	152,000	150	8	0.047	1.14	1.06	2.68	0.27	5.17	5.61	1.89	12.68
Plant - Folding	24R-30	MFWD 190	178,000	150	8	0.031	0.76	0.70	2.09	0.18	3.75	4.38	1.26	9.40
Plant - Folding	31R-15	MFWD 225	157,000	150	8	0.048	1.18	1.29	2.86	0.34	5.69	5.99	2.35	14.04
Plant - Folding	32R-15	MFWD 225	173,000	150	8	0.047	1.14	1.25	3.05	0.33	5.79	6.39	2.27	14.46
Plant - Rigid	4R-30	2WD 130	23,600	150	8	0.188	4.57	2.90	1.66	0.64	9.79	3.48	4.23	17.52
Plant - Rigid	4R-38	2WD 130	24,700	150	8	0.148	3.60	2.28	1.37	0.51	7.77	2.87	3.33	13.98
Plant - Rigid	6R-30	MFWD 150	30,900	150	8	0.125	3.05	2.23	1.45	0.54	7.29	3.04	3.59	13.93
Plant - Rigid	6R-38	MFWD 150	30,200	150	8	0.099	2.40	1.76	1.12	0.43	5.73	2.34	2.83	10.91
Plant - Rigid	8R-30	MFWD 170	39,800	150	8	0.094	2.28	1.89	1.40	0.45	6.05	2.94	3.10	12.10
Plant - Rigid	8R-38	MFWD 170	37,200	150	8	0.074	1.80	1.49	1.03	0.36	4.71	2.17	2.45	9.33
Plant - Rigid	11R-15	MFWD 170	46,400	150	8	0.137	3.34	2.77	2.39	0.66	9.17	5.00	4.53	18.71
Plant - Rigid	11R-20	MFWD 170	45,700	150	8	0.103	2.50	2.07	1.76	0.49	6.84	3.69	3.39	13.92
Plant - Rigid	12R-20	MFWD 190	47,900	150	8	0.094	2.28	2.12	1.69	0.55	6.66	3.54	3.78	13.99
Plant - Rigid	12R-30	MFWD 190	60,000	150	8	0.062	1.52	1.41	1.41	0.37	4.72	2.95	2.52	10.20
Plant - Rigid	15R-15	2WD 150	58,900	150	8	0.094	2.28	1.67	2.08	0.31	6.36	4.35	2.08	12.79
Plant - TwinRow	12R-30/40	MFWD 225	134,000	150	8	0.049	1.20	1.32	2.49	0.35	5.37	5.21	2.39	12.97
Plant - TwinRow	8R-30/40	MFWD 225	108,000	150	8	0.074	1.80	1.98	3.01	0.52	7.34	6.30	3.59	17.24
Roller/Cultipacker	20'	MFWD 150	15,800	300	12	0.074	1.13	1.32	0.27	0.32	3.06	0.41	2.13	5.62
Roller/Cultipacker	30'	MFWD 170	19,400	300	12	0.049	0.75	1.00	0.22	0.24	2.22	0.34	1.64	4.21
Roller/Cultipacker	38'	MFWD 225	21,800	300	12	0.039	0.59	1.04	0.20	0.27	2.12	0.30	1.89	4.32
Roller/Stubble	20'	2WD 50	13,800	300	12	0.074	1.13	0.44	0.24	0.05	1.87	0.36	0.32	2.56
Roller/Stubble	32'	MFWD 225	23,300	300	12	0.046	0.71	1.24	0.25	0.33	2.54	0.38	2.25	5.17
Rotary Cutter	7'	MFWD 130	5,280	185	10	0.168	2.56	2.59	0.72	0.65	6.53	0.55	4.29	11.38
Rotary Cutter	12'	2WD 150	12,100	185	10	0.098	1.49	1.74	0.96	0.33	4.53	0.73	2.16	7.43
Rotary Cutter-Flex	15'	MFWD 150	22,100	185	10	0.078	1.19	1.39	1.40	0.34	4.34	1.07	2.24	7.66
Rotary Cutter-Flex	20'	MFWD 150	29,900	185	10	0.058	0.89	1.04	1.42	0.25	3.62	1.09	1.68	6.41
Row Cond & Inc-Fold.	26'	MFWD 190	28,500	100	10	0.063	1.25	1.42	0.45	0.37	3.50	2.07	2.55	8.13
Row Cond & Inc-Fold.	38'	MFWD 225	38,200	100	10	0.043	0.85	1.15	0.41	0.30	2.73	1.90	2.09	6.73
Row Cond & Inc-Rigid	13'	2WD 130	16,900	100	10	0.126	2.50	1.95	0.53	0.43	5.43	2.46	2.85	10.75
Row Cond & Inc-Rigid	21'	2WD 170	20,800	100	10	0.078	1.55	1.58	0.40	0.29	3.83	1.87	1.98	7.70
Row Cond & Inc-Rigid	26'	MFWD 190	24,000	100	10	0.026	0.52	0.59	0.15	0.15	1.44	0.73	1.06	3

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2020 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed-- P.U.	Total Cost
									Imp.	P.U.	Direct			
-----\$/acre-----														
Row Cond./Roll-Fold.	40'	MFWD 225	26,700	160	10	0.046	0.71	1.24	0.31	0.33	2.60	0.89	2.26	5.77
Spin Spreader	5 ton	MFWD 190	12,900	100	8	0.042	1.02	0.94	0.30	0.24	2.52	0.66	1.69	4.87
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	5.14	0.40	0.08	0.49	6.12	0.11	2.10	8.34
Spray (ATV)	20'	800 CC	1,690	200	8	0.084	1.67	0.13	0.06	0.16	2.02	0.08	0.68	2.80
Spray (Band)	27' Fold	MFWD 170	7,400	200	8	0.062	1.23	1.26	0.21	0.30	3.02	0.28	2.06	5.37
Spray (Band)	40' Fold	MFWD 170	8,600	200	8	0.042	0.83	0.85	0.17	0.20	2.06	0.22	1.39	3.68
Spray (Band)	50' Fold	MFWD 170	13,700	200	8	0.033	0.66	0.68	0.21	0.16	1.73	0.28	1.11	3.13
Spray (Band)	60' Fold	MFWD 170	15,600	200	8	0.028	0.55	0.56	0.20	0.13	1.46	0.26	0.92	2.66
Spray (Bcast/HB)	13' Rigid	MFWD 150	6,900	200	8	0.130	2.57	2.31	0.42	0.56	5.87	0.55	3.72	10.14
Spray (Bcast/HB)	20' Rigid	MFWD 150	8,100	200	8	0.084	1.67	1.50	0.32	0.37	3.86	0.42	2.42	6.70
Spray (Bcast/HB)	27' Fold	MFWD 170	15,400	200	8	0.062	1.23	1.26	0.45	0.30	3.25	0.59	2.06	5.91
Spray (Bcast/HB)	27' Rigid	MFWD 170	9,800	200	8	0.062	1.23	1.26	0.28	0.30	3.09	0.37	2.06	5.53
Spray (Bcast/HB)	30' Fold	MFWD 170	18,930	200	8	0.056	1.11	1.13	0.50	0.27	3.02	0.65	1.85	5.53
Spray (Bcast/HB)	40' Fold	MFWD 170	22,000	200	8	0.042	0.83	0.85	0.43	0.20	2.32	0.57	1.39	4.29
Spray (Broadcast)	27' MFWD 170	7,400	200	8	0.062	1.23	1.26	0.21	0.30	3.02	0.28	2.06	5.37	
Spray (Broadcast)	40' MFWD 170	8,600	200	8	0.042	0.83	0.85	0.17	0.20	2.06	0.22	1.39	3.68	
Spray (Broadcast)	50' MFWD 170	13,700	200	8	0.033	0.66	0.68	0.21	0.16	1.73	0.28	1.11	3.13	
Spray (Broadcast)	60' MFWD 170	15,600	200	8	0.028	0.55	0.56	0.20	0.13	1.46	0.26	0.92	2.66	
Spray (Direct/Hood)	8R-30 MFWD 170	20,400	200	8	0.084	1.67	1.70	0.80	0.40	4.59	1.05	2.78	8.44	
Spray (Direct/Hood)	8R-38 MFWD 170	21,900	200	8	0.066	1.32	1.34	0.68	0.32	3.67	0.89	2.20	6.78	
Spray (Direct/Hood)	12R-30 MFWD 170	25,300	200	8	0.056	1.11	1.13	0.66	0.27	3.19	0.87	1.85	5.92	
Spray (Direct/Hood)	12R-38 MFWD 170	27,100	200	8	0.044	0.87	0.89	0.56	0.21	2.55	0.73	1.46	4.76	
Spray (Direct/Layby)	8R-30 MFWD 170	11,300	200	8	0.084	1.67	1.70	0.44	0.40	4.23	0.58	2.78	7.60	
Spray (Direct/Layby)	8R-38 MFWD 170	11,300	200	8	0.066	1.32	1.34	0.35	0.32	3.34	0.46	2.20	6.01	
Spray (Direct/Layby)	8R-38 2x1 MFWD 170	14,900	200	8	0.044	0.87	0.89	0.31	0.21	2.30	0.40	1.46	4.17	
Spray (Direct/Layby)	12R-30 MFWD 170	14,900	200	8	0.056	1.11	1.13	0.39	0.27	2.91	0.51	1.85	5.29	
Spray (Direct/Layby)	12R-38 MFWD 170	14,900	200	8	0.044	0.87	0.89	0.31	0.21	2.30	0.40	1.46	4.17	
Spray (Direct/Layby)	16R-20 MFWD 225	22,300	200	8	0.062	1.23	1.66	0.65	0.44	4.00	0.85	3.02	7.88	
Spray (Levee Leaper)	50' MFWD 225	13,200	200	8	0.033	0.66	0.90	0.20	0.24	2.01	0.27	1.63	3.92	
Spray (Pull Type)	60' MFWD 225	40,700	200	8	0.028	0.55	0.75	0.53	0.20	2.04	0.70	1.36	4.11	
Spray (Pull Type)	80' MFWD 225	52,500	200	8	0.021	0.41	0.56	0.52	0.15	1.65	0.68	1.02	3.35	
Spray (Pull Type)	90' 2WD 50	53,200	200	8	0.018	0.37	0.11	0.46	0.01	0.96	0.61	0.08	1.66	
Spray (Pull Type)	120' MFWD 225	80,900	200	8	0.014	0.27	0.37	0.53	0.10	1.28	0.69	0.68	2.66	
Spray (Ropewick)	20' MFWD 190	4,100	200	8	0.084	1.67	1.90	0.16	0.49	4.23	0.21	3.40	7.85	
Spray (Spot)	27' MFWD 170	7,400	200	8	0.062	1.23	1.26	0.21	0.30	3.02	0.28	2.06	5.37	
Spray (Spot)	40' MFWD 170	8,600	200	8	0.042	0.83	0.85	0.17	0.20	2.06	0.22	1.39	3.68	
Spray (Spot)	50' MFWD 170	13,700	200	8	0.033	0.66	0.68	0.21	0.16	1.73	0.28	1.11	3.13	
Spray (Spot)	60' MFWD 225	15,600	200	8	0.028	0.55	0.75	0.20	0.20	1.71	0.26	1.36	3.34	
Stalk Shredder	14' MFWD 150	14,500	200	10	0.117	1.79	2.09	1.49	0.51	5.89	0.98	3.37	10.25	
Stalk Shredder Flex	20' MFWD 150	30,200	200	10	0.082	1.25	1.46	2.18	0.36	5.26	1.43	2.35	9.05	
Stalk Shredder-Flail	12' MFWD 150	20,500	200	10	0.137	2.09	2.44	2.46	0.60	7.60	1.62	3.93	13.15	
Stalk Shredder-Flail	15' MFWD 150	23,800	200	10	0.110	1.67	1.95	2.29	0.48	6.39	1.50	3.14	11.05	
Stalk Shredder-Flail	18' MFWD 150	28,900	200	10	0.091	1.39	1.62	2.31	0.40	5.74	1.52	2.62	9.88	
Stalk Shredder-Flail	20' MFWD 150	30,100	200	10	0.082	1.25	1.46	2.17	0.36	5.25	1.42	2.35	9.04	
Stalk Shredder-Flail	25' MFWD 150	45,300	200	10	0.066	1.00	1.17	2.61	0.28	5.08	1.71	1.88	8.68	
Subsoiler	3 shank MFWD 190	5,920	100	15	0.204	3.10	4.59	0.40	1.20	9.31	1.11	8.21	18.64	
Subsoiler	4 shank MFWD 225	9,830	100	15	0.153	2.33	4.09	0.50	1.08	8.02	1.38	7.41	16.82	
Subsoiler	5 shank MFWD 225	13,900	100	15	0.122	1.86	3.25	0.56	0.86	6.55	1.56	5.90	14.02	
Subsoiler low-till	6 shank MFWD 225	15,300	100	15	0.102	1.55	2.72	0.52	0.72	5.52	1.43	4.93	11.89	
Subsoiler low-till	8 shank MFWD 225	22,000	100	15	0.076	1.16	2.03	0.56	0.54	4.30	1.54	3.69	9.55	

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, 2020

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
dollars					dollars
ADJUVANTS			Artisan	oz	0.23
Agri-Dex	pt	2.43	Avaris	oz	1.65
AMS SuperMax	pt	3.81	Avicta Complete Bean	oz	3.65
Class Act NG	pt	2.44	Bravo Weather Stick	pt	6.35
Crop Oil Conc.(Pet.)	pt	3.00	Captan 50 WP	lb	4.28
Crop Oil Conc.(Veg.)	pt	3.22	Convoy	oz	0.78
Dyne-A-Pak	pt	5.45	Cotton Seed Trt.	acre	20.00
Fire-Zone	pt	3.07	CruiserMaxx	oz	4.18
Herbimax	pt	3.48	Echo	oz	0.41
Induce	pt	3.41	Elatus	oz	2.94
MSO	pt	3.55	Headline EC	oz	2.63
Penetrator Plus	pt	2.70	Miravis Top	oz	1.27
Surfactant	pt	5.31	Prior Xemium	oz	4.53
CLEANING			Propimax EC	pt	11.69
Cleaning Peanuts	ton	18.00	Prosaro	oz	2.45
CROP CONSULTANT			Provost Optimum	lb	1.64
Corn Consultant	acre	6.00	Quadris	oz	1.63
Cotton Consultant	acre	8.00	Quadris Top	oz	2.33
Peanut Consultant	acre	9.25	Quadris Top SBX	oz	2.36
Rice Consultant	acre	8.00	Quilt	pt	17.06
Sorghum Consultant	acre	6.00	Quilt XCEL	pt	23.43
Soybeans Consultant	acre	6.50	Stratego	pt	23.43
Wheat Consultant	acre	5.50	Stratego YLD	oz	3.51
CUSTOM FERTILIZE			Tebuconazole	oz	0.49
App Fert by Air	cwt	7.50	Tilt 3.6 EC	oz	0.72
App Fert by Air(Mi	appl	7.50	Tilt/ Bravo SE	oz	1.00
Custom Apply Fert	acre	7.50	Trivapro	oz	1.53
CUSTOM LIME			GINNING		
Lime (Spread)	ton	43.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.07
Custom Plant Air	cwt	7.50	Mepichlor 4.2%	oz	0.08
CUSTOM SPRAY			Mepiquat Chloride	oz	0.10
App by Air (3 gal)	appl	5.50	Mepstar 6	oz	0.39
App by Air (5 gal)	appl	7.00	Palisade	oz	1.28
App by Air (10 gal)	appl	9.00	Pentia	oz	0.85
Custom Spray Ground	acre	7.00	Pix Ultra	oz	0.21
DRYING			Stance	oz	1.23
Dry Corn	bu	0.19	Veto	oz	0.06
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.93
Dry Rice	bu	0.40	Aim 2EC	oz	5.68
ERADICATION FEE			Boll Buster	oz	0.18
Eradication	acre	1.00	Def/Folex	pt	8.61
FERTILIZERS			Defol 5	gal	6.54
Agrotain Ultra	pt	8.36	Display	oz	10.13
Amm Sulfate (21% N)	cwt	17.46	Ethephon 6E	pt	2.90
Boron Plus	pt	4.52	Finish 6	pt	9.37
DAP	cwt	22.64	Folex 6EC	pt	8.61
Fert 10-34-0	cwt	24.78	Freefall SC	oz	1.18
Fert 10-34-0	gal	2.90	Ginstar EC	pt	21.44
Fert 11-37-0	cwt	29.40	Gramoxone SL	oz	0.17
Fert 41-0-0-4	cwt	18.60	Sharpen	oz	5.66
Lime	ton	32.97	Sodium Chlorate 5L	gal	6.54
NBPT	pt	7.97	SuperBoll	oz	0.19
Phosphorus(46% P205)	cwt	18.11	Thidiazuron 4lb	oz	1.18
Potash (60% K2O)	cwt	27.50	Tribufos 6lb	pt	8.61
Sulfur Plus	pt	2.62	Vacate	oz	1.60
UAN (32% N)	cwt	13.62	HAULING		
UAN (32%)	gal	1.51	Haul Corn	bu	0.23
UAN + Sulfur (28%)	cwt	12.55	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	gal	1.39	Haul Rice	bu	0.35
Urea, Solid (46% N)	cwt	20.22	Haul Sorghum	bu	0.25
Zinc Plus	pt	2.99	Haul Soybeans	bu	0.27
FUNGICIDES			Haul Wheat	bu	0.26
Abound	oz	0.98	HERBICIDES		
Alfa Guard	lb	1.82	2,4-D Ester	pt	3.28
Approach Prima	pt	31.96	2,4-D Amine 4	pt	2.73
Apron Maxx RTA	oz	1.66	AAatrex 4L	pt	2.24

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2020 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Accent Q	oz	17.67	Halomax	oz	19.90
Acuron	oz	2.22	Harmony Extra SG	oz	13.81
Aim	oz	5.68	Helmet	oz	4.15
Anthem Flex	oz	2.67	Hero	pt	25.77
Anthem Maxx	oz	4.90	Huskie	oz	0.84
Armezon Pro	oz	1.16	Impact	oz	1.24
Atrazine 4L	pt	2.09	Intimidator	oz	0.59
Atrazine 90DF	lb	7.52	Leadoff	oz	5.15
Authority First	oz	4.50	League	oz	4.51
Authority Elite	pt	14.03	Lexar	pt	7.67
Authority Maxx	lb	49.72	Liberty 280	oz	0.49
Authority MTZ	lb	32.08	Loyant	oz	2.21
Avatar	pt	7.87	Makaze	oz	0.14
Avenger	pt	9.89	Metolachlor	pt	4.87
Axial XL	oz	1.21	Metribuzin 4L	pt	9.30
Axiom	oz	1.84	Metribuzin 75	lb	18.75
Banvel	pt	15.04	MSMA	pt	3.97
Barrage	pt	5.43	Newpath	oz	3.73
Basagran	pt	5.43	Oberon	oz	3.75
Boundary	pt	8.84	Obey	oz	0.91
Brake	oz	1.72	Osprey	oz	3.24
Broadaxe	pt	16.41	Outlook	pt	16.38
Broadhead	lb	58.21	Panther Pro	oz	3.35
Bucaneer Plus	pt	2.37	Parallel	pt	4.64
Buctril	pt	4.28	Paraquat	oz	0.19
Butyrac 200 (2,4-DB)	pt	3.49	Parazone 3SL	oz	0.19
Cadre	oz	3.10	Permit	oz	21.22
Canopy	oz	2.13	Permit Plus	oz	20.60
Caparol	pt	4.59	PowerFlex	oz	6.71
Capreno	oz	4.75	Prefix	pt	5.69
Cinch	pt	16.06	Provisia	oz	0.83
Cinch ATZ	pt	5.20	Prowl 3.3 EC	pt	5.30
Clarity	pt	11.60	Python WDG	oz	15.10
Classic	oz	14.02	Quelex	oz	7.00
Clearpath	lb	57.57	RealmQ	oz	4.66
Clethomine 2E	oz	0.50	RebelEx	oz	2.68
Clincher SF	oz	2.32	Reflex	pt	5.87
Cobra	oz	1.71	Regiment	oz	42.66
Command 3ME	pt	16.09	Resicore	oz	0.55
Corvus	oz	6.65	Resource	oz	1.72
Cotoran	pt	5.85	RiceBeaux	pt	5.79
Cotton Pro	pt	3.75	Riceshot	pt	3.92
Declare	oz	1.64	Ricestar HT	pt	24.04
Dicamba	pt	5.66	Ringside	pt	4.17
Direx	pt	3.01	Roundup Power Max	oz	0.20
Diuron	pt	3.53	Roundup PowerMax	pt	3.20
Dual II Magnum	pt	12.63	Roundup PowerMax ii	oz	0.20
Dual Magnum	pt	10.26	Roundup Pro	pt	0.20
Duet	pt	5.39	Scepter 70 DG	oz	4.50
Endigo	oz	1.80	Select Max	pt	10.87
Engenia	oz	0.83	Sencor/Tricor.Metrib	oz	5.45
Envive	oz	0.53	Sequence	pt	5.16
Envoke	oz	106.65	Sharpen	oz	5.66
Facet L	pt	13.61	Sinister	pt	14.61
Fierce	oz	7.44	Sonic	oz	4.63
Fierce XLT	oz	6.66	Stalwart	pt	3.95
Finesse	oz	14.38	Stam 80 EDF	lb	9.32
Firestorm	pt	5.97	Stam M4	qt	7.91
First Rate	oz	40.12	Staple LX	oz	1.95
Flexstar	pt	9.11	Storm	pt	11.58
Flexstar GT	pt	4.44	Strada	oz	6.65
Fusilade DX	oz	1.06	Strada Pro	oz	6.86
Gambit	oz	16.96	Strada XT2	pt	3.20
Glyphosate 3lbs a.e	pt	2.16	Superwham	qt	9.27
Glyphosate 3lbs a.e	oz	0.14	Suprend	lb	10.14
Goal 2XL	pt	7.77	SureStart II	oz	0.67
Gramoxone SL 2.0	oz	0.17	Surveil	oz	0.72
Grandstand R	pt	18.26	Synchrony XP	oz	11.72
Grasp	oz	12.03	Tempest	oz	1.84
Grasp Xtra	oz	1.68	Touchdown Total	qt	5.23
Halex GT	pt	6.24			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2020 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
dollars					dollars
Treflan	pt	3.37	Lambda	oz	1.71
Trifluralin	pt	3.36	Lannate LV	pt	9.85
Triflurex	pt	3.66	Macho	oz	0.53
Ultra Blazer	pt	10.69	Malathion 5E	pt	8.16
Valor EZ	oz	4.43	Malathion 8E	pt	5.50
Valor SX	oz	4.28	Mustang Max	oz	1.33
Valor XLT	oz	4.90	Nuprid 4F	oz	0.89
Vamos	pt	6.49	Orthene 90	lb	15.98
Verdict	oz	1.72	Permethrin	oz	0.63
Veritas	pt	7.49	Portal XLO	oz	0.88
Villain	pt	5.24	Pounce 25WP	lb	18.08
Volunteer	pt	10.63	Prevathon	oz	1.12
Warrant	pt	4.02	Radiant	oz	6.28
XtendiMax	oz	0.49	Sevin 4F	pt	6.22
Zidua DF	oz	8.23	Sevin XLR Plus	qt	15.09
Zidua SC	oz	5.75	Sivanto Prime	oz	2.54
INOCULANT			Straffer Max	oz	9.61
Inoculant -Soybean	acre	1.55	Tempest	oz	1.82
Optimize LIFT	oz	0.51	Transform WG	oz	7.38
INSECTICIDES			Up-Cyde	oz	0.43
Abamectin .15EC	oz	1.67	Warrior ZT	oz	2.57
Acephate 90%	lb	7.17	Zeal	oz	17.50
Acephate 90SP	lb	7.59	IRRIGATION SUPPLIES		
Admire Pro	oz	1.33	Roll-Out Pipe	ft	0.24
Agri-Mek	oz	2.96	SEED/PLANTS		
Asana .66 XL	oz	0.48	Corn Seed BtRR	thous	3.50
Avenger	oz	0.70	Corn Seed RR2	thous	3.50
Baythroid XL	oz	1.06	Corn Seed VT2P	thous	3.62
Belt	oz	7.50	Corn Seed Op Leptra	thous	4.39
Besiege	oz	1.93	Cotton Seed B3XF	thous	2.32
Bidrin 8EC	oz	1.28	Cotton Seed W3FE	thous	2.37
Bifenthrin	oz	0.82	Cot.Seed B3XF/W3FE	thous	2.34
Bifenture 2EC	oz	0.81	Peanut Seed	lb	0.84
Brigade EC	pt	14.70	Rice Clearfield	lb	0.95
Capture LFR	oz	2.36	Rice Clrlfld Hyb Trt	lb	6.10
Centric 40WG	oz	4.89	Rice Conv Hyb Trt	lb	6.15
Cypermethrin	oz	0.55	Rice Seed CF(Levees)	lb	0.95
Declare	oz	1.87	Rice Seed CFH(Levee)	lb	2.67
Diamond .83EC	oz	1.31	Rice Seed Conv.	lb	0.28
Dimethoate 4E	pt	5.37	Rice Seed Cv(Levees)	lb	0.28
Dimilin 2L	oz	1.91	Rice Seed CvH(Levee)	lb	1.93
Force 3G	lb	7.23	Rice Seed Trt/Insect	lbseed	0.29
Gaucho 600	oz	2.36	Sorghum Concept+ Po	lb	3.96
Imidacloprid 4F	oz	0.62	Soybean Seed LL	lb	1.27
Imidan 70 WSB	oz	0.71	Soybean Seed RR2	lb	1.39
IncidentalPestTrt \$8	acre	8.00	Soybean Seed RR2X	lb	1.32
IncidentalPestTrt\$15	acre	15.00	Wheat Seed Private	lb	0.24
IncidentalPestTrt\$22	acre	22.00	SOIL TEST		
IncidentalPestTrt\$30	acre	30.00	Soil Test	acre	10.00
Intrepid 2F	oz	2.15	SURVEY & MARK LEVEES		
Intruder 70WSP	oz	9.05	Survey & Mark Levees	acre	4.50
Karate Z	oz	2.48			

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2020

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.30
Gasoline	gal	2.20
INTEREST RATES		
Short-term	%	5.25
Intermediate-term	%	6.25

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2020

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	15.22
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, 2020

Crop	uni	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '20	4.06	-0.20	3.86	2.35	3.86
Cotton Lint	lb	Dec '20	0.6447	-0.0158	0.6289	0.52	0.6289
Cottonseed	lb						0.10 ^f
Grain Sorghum	bu				3.67	2.27	3.67
Peanuts	ton				400.00	370.00	400.00
Soybeans	bu	Nov '20	9.62	-0.02	9.60	6.41	9.60
Rice	bu	Nov '20	5.32	-0.37	4.95	3.20	4.95
Wheat	bu	Jul '20	4.39	-0.15	4.24	3.35	4.24

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2019 for the stated contract months.

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2019 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

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

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2008-2018.

Appendix Table 8. Estimated costs for field operations, per acre
 Peanuts irrigated with a roll-out pipe
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2020

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Land Plane	50'x16'		0.85	0.30	0.58		0.09	1.82	1.76	3.58
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.19	0.07	0.14		0.01	0.41	0.34	0.75
Roll-Out Pipe	ft	7.92					0.17	8.09		8.09
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.25	0.10	0.42		0.02	0.79	0.88	1.67
IRRIGATE LABOR	hour				1.81		0.04	1.85		1.85
Apply Water					0.23			0.23		0.23
IRRIGATE LABOR	hour									
Apply Water					0.23			0.23		0.23
IRRIGATE LABOR	hour									
Apply Water					0.23			0.23		0.23
IRRIGATE LABOR	hour									
Apply Water					0.23			0.23		0.23
IRRIGATE LABOR	hour									
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.15	0.63		0.01	1.17	1.32	2.49
Land Forming (\$450)	each								36.04	36.04
Well & Pump, Furrow	each				2.96		0.06	3.02	9.86	12.88
Main Line Pipe	each								5.45	5.45
Engine, RPF, PNUT	each								9.34	9.34
1st July Irrigation	ac-in		5.62	0.98			0.12	6.72		6.72
2nd Aug Irrigation	ac-in		5.62	0.98			0.09	6.69		6.69
2nd Aug Irrigation	ac-in		5.62	0.98			0.09	6.69		6.69
1st Sep Irrigation	ac-in		5.62	0.98			0.06	6.66		6.66
TOTALS		7.92	24.15	7.50	4.73	0.00	0.77	45.07	64.99	110.06

Note: Cost of production estimates are based on 2019 input prices.

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