

**PEANUTS
2022
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2021-07**

November 2021

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 2022 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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

2022 Budget Committees

Corn, Grain Sorghum, and Wheat

Will Maples, MSU-ES, Co-Chair
 Brian Mills, MSU-ES, Co-Chair
 Erick Larson, MSU-ES/MAFES
 Jason Bond, MSU-ES/MAFES
 Angus Catchot, MSU-ES
 Don Cook, MAFES
 Whitney Crow, MSU-ES
 Drew Gholson, MSU-ES/MAFES
 Jeff Gore, MSU-ES/MAFES
 Larry Oldham, MSU-ES

Cotton

Will Maples, MSU-ES, Co-Chair
 Brian Mills, MSU-ES, Co-Chair
 Brian Pieralisi, MSU-ES
 Jason Bond, MSU-ES/MAFES
 Angus Catchot, MSU-ES
 Don Cook, MAFES
 Whitney Crow, MSU-ES
 Jeff Gore, MSU-ES/MAFES
 Larry Oldham, MSU-ES

Peanuts

Will Maples, MSU-ES, Co-Chair
 Brian Mills, MSU-ES, Co-Chair
 Jeff Gore, MSU-ES/MAFES
 Alan Henn, MSU-ES
 Brendan Zurweller, MSU-ES
 Charlie Stokes, MUS-ES

Rice

Will Maples, MSU-ES, Co-Chair
 Brian Mills, MSU-ES, Co-Chair
 Tom Allen, MSU-ES/MAFES
 Jason Bond, MSU-ES/MAFES
 Drew Gholson, MSU-ES/MAFES
 Jeff Gore, MSU-ES/MAFES

Soybeans

Will Maples, MSU-ES, Co-Chair
 Brian Mills, MSU-ES, Co-Chair
 Trent Irby, MSU-ES
 Tom Allen, MSU-ES/MAFES
 Jason Bond, MSU-ES/MAFES
 Angus Catchot, MSU-ES
 Don Cook, MAFES
 Whitney Crow, MSU-ES
 Drew Gholson, MSU-ES/MAFES
 Jeff Gore, MSU-ES/MAFES

Vegetables

Elizabeth Canales, MSU-ES, Chairman
 Blake Layton, MSU-ES
 Casey Barickman, MSU-MAFES/ES
 Stephen Meyers, MSU-ES

Fruit & Nut

Alba Collart, MSU-ES, Chairman
 Eric Stafne, MSU-ES
 Frank Matta, MAFES

Supporting Committees

Equipment

Evan Gregory, MSU-ES
 W. Gail Gillis, MSU-ES

Prices

Evan Gregory, MSU-ES
 W. Gail Gillis, MSU-ES

Documentation and Data Processing

Evan Gregory, MSU-ES
 W. Gail Gillis, MSU-ES

Publication Review

Evan Gregory, MSU-ES
 W. Gail Gillis, MSU-ES

Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2022 Budget Committees.....	ii
2022 Planning Budgets	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures	1
Production Practices	1
Machinery	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns	3
Irrigation Costs	3
Net Returns	3
 Enterprise Budgets	
Table	
1 Peanut- runner, 2.0 ton (4000 lb) yield, 8 row-38 inch All Areas.....	6
2 Peanut-runner, 2.0 ton (4000 lb) yield, 8 row-38" twin All Areas.....	12
3 Peanut- runner, 2.0 ton (4000 lb) yield, 12 row-38 inch All Areas.....	18
4 Peanut- runner, 2.3 ton (4600 lb) yield, 12 row-38 inch Furrow irrigated, All Areas.....	24
 Appendix	
Table	
1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour.....	32
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per acre	33
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre.....	34
4 Operating inputs: estimated prices.....	39
5 Estimated fuel prices and interest rates.....	42
6 Labor types, wage rates and unallocated labor multipliers for crop enterprises	42
7 Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets.....	43
8 Peanuts irrigated with a roll-out pipe 160-acre system, 12 ac-in., Delta Area	44
Literature Cited	45

2022 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 2021. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

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

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

Net Returns

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these budgets, "RETURNS ABOVE DIRECT EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some

items are intentionally left out of these calculations, i.e., costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments. These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. These items should, however, be considered by each producer and factored into the final budget each producer develops for his own situation.

Irrigation Costs

Estimated costs of a ¼ mile center pivot irrigation system is presented in Appendix Table 8. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

Enterprise Budgets

Table 1.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.96	48.0000	94.08	_____
Bravo Weather Stick	pt	4.12	5.5000	22.66	_____
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.81	4.0000	7.24	_____
Dual Magnum	pt	10.02	1.0000	10.02	_____
Valor SX	oz	3.60	3.0000	10.80	_____
Storm	pt	11.16	1.5000	16.74	_____
Cadre	oz	3.33	4.0000	13.32	_____
Butyrac 200 (2,4-DB)	pt	2.90	2.0000	5.80	_____
Select Max	pt	12.73	1.0000	12.73	_____
INSECTICIDES					
Admire Pro	oz	1.57	9.0000	14.13	_____
Acephate 90%	lb	9.87	0.1375	1.36	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
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	59.00	0.3330	19.65	_____
INOCULANT					
Optimize LIFT	oz	0.50	14.8000	7.40	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	15.27	1.6246	24.80	_____
Self-Propelled	hour	15.27	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	15.30	1.4583	22.32	_____
DIESEL FUEL					
Tractors	gal	2.36	17.7898	41.98	_____
Self-Propelled	gal	2.36	1.7850	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	13.47	1.0000	13.47	_____
Tractors	acre	11.85	1.0000	11.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	5.58	1.0000	5.58	_____
TOTAL DIRECT EXPENSES				574.15	_____
FIXED EXPENSES					
Implements	acre	40.01	1.0000	40.01	_____
Tractors	acre	69.83	1.0000	69.83	_____
Self-Propelled	acre	14.18	1.0000	14.18	_____
TOTAL FIXED EXPENSES				124.02	_____
TOTAL SPECIFIED EXPENSES				698.17	_____

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	430.00	2.0000	860.00	_____

TOTAL INCOME				860.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	120.27	1.0000	120.27	_____
HERBICIDES	acre	76.65	1.0000	76.65	_____
INSECTICIDES	acre	15.49	1.0000	15.49	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.65	1.0000	19.65	_____
INOCULANT	acre	7.40	1.0000	7.40	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2199	1.99	_____
OPERATOR LABOR	hour	15.27	1.8229	27.84	_____
UNALLOCATED LABOR	hour	15.30	1.4583	22.32	_____
DIESEL FUEL	gal	2.36	19.5748	46.14	_____
REPAIR & MAINTENANCE	acre	27.57	1.0000	27.57	_____
INTEREST ON OP. CAP.	acre	5.58	1.0000	5.58	_____

TOTAL DIRECT EXPENSES				574.15	_____
RETURNS ABOVE DIRECT EXPENSES				285.85	_____
TOTAL FIXED EXPENSES				124.02	_____

TOTAL SPECIFIED EXPENSES				698.17	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				161.83	_____

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

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 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
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 2021 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, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.06	3.39		3.39
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Glyphosate 3lbs a.e	pt	7.24						0.13	7.37		7.37
Lime (Spread)	ton	19.65						0.34	19.99		19.99
Bed-Rip/Disk Fold.	8R-38		1.69	0.65	2.01			0.06	4.41	3.53	7.94
Peanut Plt&Pre Rigid	8R-38		3.30	2.93	4.41			0.16	10.80	9.04	19.84
Peanut Seed	lb	126.00						1.84	127.84		127.84
Optimize LIFT	oz	7.40						0.11	7.51		7.51
Admire Pro	oz	14.13						0.21	14.34		14.34
Abound	oz	23.52						0.34	23.86		23.86
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Dual Magnum	pt	10.02						0.15	10.17		10.17
Valor SX	oz	10.80						0.16	10.96		10.96
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14				0.28	0.32	0.60
Acephate 90%	lb	1.36						0.02	1.38		1.38
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Storm	pt	16.74						0.20	16.94		16.94
Cadre	oz	13.32						0.16	13.48		13.48
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.07	5.87		5.87
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.07	6.25		6.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.31	35.59		35.59
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Select Max	pt	12.73						0.11	12.84		12.84
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	4.12						0.04	4.16		4.16
Tebuconazole 3.6	oz	3.53						0.03	3.56		3.56
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.21	35.49		35.49
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.04	6.22		6.22
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57				1.14	1.26	2.40
Bravo Weather Stick	pt	6.18						0.02	6.20		6.20
Peanut Dig/Invertor	4R-38		4.30	2.99	5.11			0.04	12.44	9.05	21.49
Peanut Harvester	4R-38		25.54	15.71	25.69			0.20	67.14	72.68	139.82
Dry Peanuts	ton	27.36						0.08	27.44		27.44
Cleaning Peanuts	ton	29.16						0.09	29.25		29.25
Peanut Dump Cart	6-Row		7.15	3.04	8.52			0.05	18.76	15.54	34.30
TOTALS		442.71	46.14	27.57	52.15	0.00	5.58	574.15	124.02	698.17	

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

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	860.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.52	6.18	42.93	41.46	6.18
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.24	20.82	32.96	15.63	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.49	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	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	19.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	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	0.57	7.13	1.14	2.28	1.14	39.89
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	0.37	5.45	0.74	1.48	0.74	37.36
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.83	0.40	0.80	0.40	21.94
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.55	3.07	0.55	0.66	0.27	0.48
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	31.91	212.71	47.77	75.38	44.01	162.37
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-212.71	-47.77	-75.38	-44.01	697.63
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-244.62	-292.39	-367.77	-411.78	285.85

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			322.50	344.00	365.50	387.00	408.50	430.00	451.50	473.00	494.50	516.00	537.50
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-223 -347	-201 -325	-180 -304	-158 -282	-137 -261	-115 -239	-94 -218	-72 -196	-51 -175	-29 -153	-8 -132
60	1.20	ton	-164 -288	-138 -262	-112 -236	-87 -211	-61 -185	-35 -159	-9 -133	16 -107	41 -82	67 -56	93 -30
70	1.40	ton	-105 -229	-75 -199	-45 -169	-15 -139	14 -109	44 -79	74 -49	105 -18	135 11	165 41	195 71
80	1.60	ton	-46 -170	-12 -136	21 -102	56 -67	90 -33	125 1	159 35	193 69	228 104	262 138	297 173
90	1.80	ton	12 -112	50 -73	89 -34	128 4	166 42	205 81	244 120	282 158	321 197	360 236	399 274
100	2.00	ton	70 -53	113 -10	156 32	199 75	242 118	285 161	328 204	371 247	414 290	457 333	500 376
110	2.20	ton	129 5	176 52	224 100	271 147	318 194	366 242	413 289	460 336	508 384	555 431	602 478
120	2.40	ton	188 64	240 116	291 167	343 219	394 270	446 322	498 374	549 425	601 477	652 528	704 580
130	2.60	ton	247 123	303 179	359 235	415 291	470 346	526 402	582 458	638 514	694 570	750 626	806 682
140	2.80	ton	306 182	366 242	426 302	486 362	546 422	607 483	667 543	727 603	787 663	847 723	908 784
150	3.00	ton	365 240	429 305	494 369	558 434	623 498	687 563	752 627	816 692	881 756	945 821	1010 885

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 2021 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.96	48.0000	94.08	_____
Bravo Weather Stick	pt	4.12	5.5000	22.66	_____
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.81	4.0000	7.24	_____
Dual Magnum	pt	10.02	1.0000	10.02	_____
Valor SX	oz	3.60	3.0000	10.80	_____
Storm	pt	11.16	1.5000	16.74	_____
Cadre	oz	3.33	4.0000	13.32	_____
Butyrac 200 (2,4-DB)	pt	2.90	2.0000	5.80	_____
Select Max	pt	12.73	1.0000	12.73	_____
INSECTICIDES					
Admire Pro	oz	1.57	9.0000	14.13	_____
Acephate 90%	lb	9.87	0.1375	1.36	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
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	59.00	0.3330	19.65	_____
INOCULANT					
Optimize LIFT	oz	0.50	29.6000	14.80	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	15.27	1.6246	24.80	_____
Self-Propelled	hour	15.27	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	15.30	1.4583	22.32	_____
DIESEL FUEL					
Tractors	gal	2.36	17.7898	41.98	_____
Self-Propelled	gal	2.36	1.7850	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	17.20	1.0000	17.20	_____
Tractors	acre	11.85	1.0000	11.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	5.74	1.0000	5.74	_____
TOTAL DIRECT EXPENSES				585.44	_____
FIXED EXPENSES					
Implements	acre	46.57	1.0000	46.57	_____
Tractors	acre	69.83	1.0000	69.83	_____
Self-Propelled	acre	14.18	1.0000	14.18	_____
TOTAL FIXED EXPENSES				130.58	_____
TOTAL SPECIFIED EXPENSES				716.02	_____

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	430.00	2.0000	860.00	_____

TOTAL INCOME				860.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	120.27	1.0000	120.27	_____
HERBICIDES	acre	76.65	1.0000	76.65	_____
INSECTICIDES	acre	15.49	1.0000	15.49	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.65	1.0000	19.65	_____
INOCULANT	acre	14.80	1.0000	14.80	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2199	1.99	_____
OPERATOR LABOR	hour	15.27	1.8229	27.84	_____
UNALLOCATED LABOR	hour	15.30	1.4583	22.32	_____
DIESEL FUEL	gal	2.36	19.5748	46.14	_____
REPAIR & MAINTENANCE	acre	31.30	1.0000	31.30	_____
INTEREST ON OP. CAP.	acre	5.74	1.0000	5.74	_____

TOTAL DIRECT EXPENSES				585.44	_____
RETURNS ABOVE DIRECT EXPENSES				274.56	_____
TOTAL FIXED EXPENSES				130.58	_____

TOTAL SPECIFIED EXPENSES				716.02	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				143.98	_____

Note: Cost of production estimates are based on 2021 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.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-750gal Glyphosate 3lbs a.e	60' 175hp pt		0.017	1.00	Apr	4.0000		0.01	0.02	0.01
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Rigid	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Ptl&PreTwin	8R-30/40	MFWD 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					29.6000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-750gal Dual Magnum	60' 175hp pt		0.017	1.00	May	1.0000		0.01	0.02	0.01
Valor SX	oz					3.0000				
Sprayer 600-750gal Acephate 90%	60' 175hp lb		0.017	0.25	May	0.1375		0.00	0.00	0.00
Sprayer 600-750gal Storm	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jun	1.5000		0.01	0.02	0.01
Sprayer 600-750gal Abound	60' 175hp oz		0.017	1.00	Jul	18.0000		0.01	0.02	0.01
Sprayer 600-750gal Butyrac 200 (2,4-DB)	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Select Max	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Jul	1.0000		0.01	0.02	0.01
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-750gal Abound	60' 175hp oz		0.017	1.00	Aug	18.0000		0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Aug	1.5000		0.01	0.02	0.01
Sprayer 600-750gal Bravo Weather Stick	60' 175hp pt		0.017	1.00	Sep	1.5000		0.01	0.02	0.01
Peanut Dig/Invertor	4R-38	MFWD 190	0.186	1.00	Sep		0.18	0.18	0.18	0.14
Peanut Harvester	4R-38	MFWD 225	0.934	1.00	Sep		0.93	0.93	0.93	0.74
Dry Peanuts	ton					1.1400				
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 2021 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, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.06	3.39		3.39
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Glyphosate 3lbs a.e	pt	7.24						0.13	7.37		7.37
Lime (Spread)	ton	19.65						0.34	19.99		19.99
Bed-Rip/Disk Rigid	8R-38		1.69	0.62	2.01			0.06	4.38	3.42	7.80
Peanut Ptl&PreTwin	8R-30/40		3.30	6.69	4.41			0.21	14.61	15.71	30.32
Peanut Seed	lb	126.00						1.84	127.84		127.84
Optimize LIFT	oz	14.80						0.22	15.02		15.02
Admire Pro	oz	14.13						0.21	14.34		14.34
Abound	oz	23.52						0.34	23.86		23.86
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Dual Magnum	pt	10.02						0.15	10.17		10.17
Valor SX	oz	10.80						0.16	10.96		10.96
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14				0.28	0.32	0.60
Acephate 90%	lb	1.36						0.02	1.38		1.38
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Storm	pt	16.74						0.20	16.94		16.94
Cadre	oz	13.32						0.16	13.48		13.48
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.07	5.87		5.87
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.07	6.25		6.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.31	35.59		35.59
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Select Max	pt	12.73						0.11	12.84		12.84
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	4.12						0.04	4.16		4.16
Tebuconazole 3.6	oz	3.53						0.03	3.56		3.56
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.21	35.49		35.49
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.04	6.22		6.22
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57				1.14	1.26	2.40
Bravo Weather Stick	pt	6.18						0.02	6.20		6.20
Peanut Dig/Invertor	4R-38		4.30	2.99	5.11			0.04	12.44	9.05	21.49
Peanut Harvester	4R-38		25.54	15.71	25.69			0.20	67.14	72.68	139.82
Dry Peanuts	ton	27.36						0.08	27.44		27.44
Cleaning Peanuts	ton	29.16						0.09	29.25		29.25
Peanut Dump Cart	6-Row		7.15	3.04	8.52			0.05	18.76	15.54	34.30
TOTALS			450.11	46.14	31.30	52.15	0.00	5.74	585.44	130.58	716.02

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

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	860.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.52	6.18	42.93	41.46	6.18
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.24	20.82	32.96	15.63	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.49	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	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	19.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.80	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	0.57	7.13	1.14	2.28	1.14	39.89
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	0.37	5.45	0.74	1.48	0.74	37.36
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	7.56	0.40	0.80	0.40	21.94
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.55	3.23	0.55	0.66	0.27	0.48
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	31.91	224.00	47.77	75.38	44.01	162.37
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-224.00	-47.77	-75.38	-44.01	697.63
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-255.91	-303.68	-379.06	-423.07	274.56

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			322.50	344.00	365.50	387.00	408.50	430.00	451.50	473.00	494.50	516.00	537.50
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-234 -365	-213 -343	-191 -322	-170 -300	-148 -279	-127 -257	-105 -236	-84 -214	-62 -193	-41 -171	-19 -150
60	1.20	ton	-175 -306	-149 -280	-124 -254	-98 -228	-72 -203	-46 -177	-20 -151	4 -125	30 -99	56 -74	82 -48
70	1.40	ton	-116 -247	-86 -217	-56 -187	-26 -157	3 -127	33 -97	63 -66	93 -36	123 -6	153 23	184 53
80	1.60	ton	-58 -188	-23 -154	10 -119	45 -85	79 -51	113 -16	148 17	182 52	217 86	251 120	285 155
90	1.80	ton	0 -129	39 -91	78 -52	116 -13	155 24	194 63	232 102	271 141	310 179	349 218	387 257
100	2.00	ton	59 -71	102 -28	145 14	188 57	231 100	274 143	317 186	360 229	403 272	446 315	489 358
110	2.20	ton	118 -12	165 35	212 82	260 129	307 177	354 224	402 271	449 318	496 366	544 413	591 460
120	2.40	ton	177 46	228 98	280 149	332 201	383 253	435 304	486 356	538 407	590 459	641 511	693 562
130	2.60	ton	236 105	291 161	347 217	403 273	459 329	515 384	571 440	627 496	683 552	739 608	795 664
140	2.80	ton	294 164	355 224	415 284	475 344	535 405	595 465	656 525	716 585	776 645	836 706	896 766
150	3.00	ton	353 223	418 287	482 352	547 416	611 481	676 545	740 610	805 674	869 739	934 803	998 868

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 2021 input prices.

Table 3.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.96	48.0000	94.08	_____
Bravo Weather Stick	pt	4.12	5.5000	22.66	_____
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.81	4.0000	7.24	_____
Dual Magnum	pt	10.02	1.0000	10.02	_____
Valor SX	oz	3.60	3.0000	10.80	_____
Storm	pt	11.16	1.5000	16.74	_____
Cadre	oz	3.33	4.0000	13.32	_____
Butyrac 200 (2,4-DB)	pt	2.90	2.0000	5.80	_____
Select Max	pt	12.73	1.0000	12.73	_____
INSECTICIDES					
Admire Pro	oz	1.57	9.0000	14.13	_____
Acephate 90%	lb	9.87	0.1375	1.36	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
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	59.00	0.3330	19.65	_____
INOCULANT					
Optimize LIFT	oz	0.50	14.8000	7.40	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	15.27	1.1856	18.10	_____
Self-Propelled	hour	15.27	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	15.31	1.1072	16.96	_____
DIESEL FUEL					
Tractors	gal	2.36	12.9499	30.55	_____
Self-Propelled	gal	2.36	1.7850	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	10.52	1.0000	10.52	_____
Tractors	acre	8.62	1.0000	8.62	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	5.44	1.0000	5.44	_____
TOTAL DIRECT EXPENSES				543.98	_____
FIXED EXPENSES					
Implements	acre	33.29	1.0000	33.29	_____
Tractors	acre	50.82	1.0000	50.82	_____
Self-Propelled	acre	14.18	1.0000	14.18	_____
TOTAL FIXED EXPENSES				98.29	_____
TOTAL SPECIFIED EXPENSES				642.27	_____

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	430.00	2.0000	860.00	_____

TOTAL INCOME				860.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	120.27	1.0000	120.27	_____
HERBICIDES	acre	76.65	1.0000	76.65	_____
INSECTICIDES	acre	15.49	1.0000	15.49	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.65	1.0000	19.65	_____
INOCULANT	acre	7.40	1.0000	7.40	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1795	1.63	_____
OPERATOR LABOR	hour	15.27	1.3840	21.14	_____
UNALLOCATED LABOR	hour	15.31	1.1072	16.96	_____
DIESEL FUEL	gal	2.36	14.7349	34.71	_____
REPAIR & MAINTENANCE	acre	21.39	1.0000	21.39	_____
INTEREST ON OP. CAP.	acre	5.44	1.0000	5.44	_____

TOTAL DIRECT EXPENSES				543.98	_____
RETURNS ABOVE DIRECT EXPENSES				316.02	_____
TOTAL FIXED EXPENSES				98.29	_____

TOTAL SPECIFIED EXPENSES				642.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				217.73	_____

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

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 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
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 2021 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, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.06	3.39		3.39
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Glyphosate 3lbs a.e	pt	7.24						0.13	7.37		7.37
Lime (Spread)	ton	19.65						0.34	19.99		19.99
Bed-Rip/Disk Fold.	12R-38		1.26	0.52	1.27			0.04	3.09	2.79	5.88
Peanut Plt&Pre Fold.	12R-38		2.20	3.46	2.94			0.13	8.73	8.71	17.44
Peanut Seed	lb	126.00						1.84	127.84		127.84
Optimize LIFT	oz	7.40						0.11	7.51		7.51
Admire Pro	oz	14.13						0.21	14.34		14.34
Abound	oz	23.52						0.34	23.86		23.86
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Dual Magnum	pt	10.02						0.15	10.17		10.17
Valor SX	oz	10.80						0.16	10.96		10.96
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14				0.28	0.32	0.60
Acephate 90%	lb	1.36						0.02	1.38		1.38
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Storm	pt	16.74						0.20	16.94		16.94
Cadre	oz	13.32						0.16	13.48		13.48
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.07	5.87		5.87
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.07	6.25		6.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.31	35.59		35.59
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Select Max	pt	12.73						0.11	12.84		12.84
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	4.12						0.04	4.16		4.16
Tebuconazole 3.6	oz	3.53						0.03	3.56		3.56
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.21	35.49		35.49
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.04	6.22		6.22
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57				1.14	1.26	2.40
Bravo Weather Stick	pt	6.18						0.02	6.20		6.20
Peanut Dig/Invertor	6R-38		2.86	1.99	3.41			0.02	8.28	6.58	14.86
Peanut Harvester	6R-38		17.08	10.13	17.18			0.13	44.52	50.49	95.01
Dry Peanuts	ton	27.36						0.08	27.44		27.44
Cleaning Peanuts	ton	29.16						0.09	29.25		29.25
Peanut Dump Cart	6-Row		7.15	3.04	8.52			0.05	18.76	15.54	34.30
TOTALS			442.71	34.71	21.39	39.73	0.00	5.44	543.98	98.29	642.27

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

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	860.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.52	6.18	42.93	41.46	6.18
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.24	20.82	32.96	15.63	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.49	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	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	19.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	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	0.57	4.92	1.14	2.28	1.14	29.68
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	0.37	3.92	0.74	1.48	0.74	27.46
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.23	0.40	0.80	0.40	15.36
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	0.55	3.02	0.55	0.66	0.27	0.39
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	31.91	209.32	47.77	75.38	44.01	135.59
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-209.32	-47.77	-75.38	-44.01	724.41
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-31.91	-241.23	-289.00	-364.38	-408.39	316.02

Note: Cost of production estimates are based on 2021 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, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			322.50	344.00	365.50	387.00	408.50	430.00	451.50	473.00	494.50	516.00	537.50
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-193 -291	-171 -269	-150 -248	-128 -226	-107 -205	-85 -183	-64 -162	-42 -140	-21 -119	0 -97	21 -76
60	1.20	ton	-134 -232	-108 -206	-82 -180	-56 -155	-31 -129	-5 -103	20 -77	46 -51	72 -26	97 -0	123 25
70	1.40	ton	-75 -173	-45 -143	-15 -113	14 -83	44 -53	75 -23	105 6	135 36	165 67	195 97	225 127
80	1.60	ton	-16 -114	17 -80	52 -46	86 -11	120 22	155 57	189 91	224 125	258 160	292 194	327 229
90	1.80	ton	42 -56	80 -17	119 21	158 59	196 98	235 137	274 176	313 214	351 253	390 292	429 330
100	2.00	ton	101 2	144 45	187 88	230 131	273 174	316 217	359 260	402 303	445 346	488 389	531 432
110	2.20	ton	159 61	207 108	254 156	301 203	349 250	396 298	443 345	490 392	538 439	585 487	632 534
120	2.40	ton	218 120	270 171	321 223	373 275	425 326	476 378	528 429	579 481	631 533	683 584	734 636
130	2.60	ton	277 179	333 235	389 291	445 346	501 402	557 458	612 514	668 570	724 626	780 682	836 738
140	2.80	ton	336 238	396 298	456 358	516 418	577 478	637 539	697 599	757 659	817 719	878 779	938 840
150	3.00	ton	395 296	459 361	524 425	588 490	653 554	717 619	782 683	846 748	911 812	975 877	1040 941

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 2021 input prices.

Table 4.A Estimated costs per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.96	48.0000	94.08	_____
Bravo Weather Stick	pt	4.12	5.5000	22.66	_____
Tebuconazole 3.6	oz	0.49	7.2000	3.53	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.81	4.0000	7.24	_____
Dual Magnum	pt	10.02	1.0000	10.02	_____
Valor SX	oz	3.60	3.0000	10.80	_____
Storm	pt	11.16	1.5000	16.74	_____
Cadre	oz	3.33	4.0000	13.32	_____
Butyrac 200 (2,4-DB)	pt	2.90	2.0000	5.80	_____
Select Max	pt	12.73	1.0000	12.73	_____
INSECTICIDES					
Admire Pro	oz	1.57	9.0000	14.13	_____
Acephate 90%	lb	9.87	0.1375	1.36	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
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	59.00	0.3330	19.65	_____
INOCULANT					
Optimize LIFT	oz	0.50	14.8000	7.40	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	15.27	1.2642	19.30	_____
Self-Propelled	hour	15.27	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	15.31	1.1072	16.96	_____
DIESEL FUEL					
Tractors	gal	2.36	13.6762	32.27	_____
Self-Propelled	gal	2.36	1.7850	4.16	_____
Irrigate Peanuts	gal	2.36	9.7755	23.08	_____
REPAIR & MAINTENANCE					
Implements	acre	10.74	1.0000	10.74	_____
Tractors	acre	9.07	1.0000	9.07	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	5.98	1.0000	5.98	_____
TOTAL DIRECT EXPENSES				598.62	_____
FIXED EXPENSES					
Implements	acre	34.70	1.0000	34.70	_____
Tractors	acre	53.49	1.0000	53.49	_____
Self-Propelled	acre	14.18	1.0000	14.18	_____
Irrigate Peanuts	acre	49.28	1.0000	49.28	_____
TOTAL FIXED EXPENSES				151.65	_____
TOTAL SPECIFIED EXPENSES				750.27	_____

Note: Cost of production estimates are based on 2021 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, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	430.00	2.3000	989.00	_____

TOTAL INCOME				989.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	120.27	1.0000	120.27	_____
HERBICIDES	acre	76.65	1.0000	76.65	_____
INSECTICIDES	acre	15.49	1.0000	15.49	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	33.66	1.0000	33.66	_____
DRYING	acre	31.68	1.0000	31.68	_____
CUSTOM LIME	acre	19.65	1.0000	19.65	_____
INOCULANT	acre	7.40	1.0000	7.40	_____
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	15.27	1.4625	22.34	_____
UNALLOCATED LABOR	hour	15.31	1.1072	16.96	_____
DIESEL FUEL	gal	2.36	25.2367	59.51	_____
REPAIR & MAINTENANCE	acre	29.22	1.0000	29.22	_____
INTEREST ON OP. CAP.	acre	5.98	1.0000	5.98	_____

TOTAL DIRECT EXPENSES				598.62	_____
RETURNS ABOVE DIRECT EXPENSES				390.38	_____
TOTAL FIXED EXPENSES				151.65	_____

TOTAL SPECIFIED EXPENSES				750.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				238.73	_____

Note: Cost of production estimates are based on 2021 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, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

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 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
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				Jan	1.0000	0.07	0.07	0.46	
TOTALS							1.46	1.26	2.02	1.10

Note: Cost of production estimates are based on 2021 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, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.06	3.39		3.39
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Glyphosate 3lbs a.e	pt	7.24						0.13	7.37		7.37
Lime (Spread)	ton	19.65						0.34	19.99		19.99
Bed-Rip/Disk Fold.	12R-38		1.26	0.52	1.27			0.04	3.09	2.79	5.88
Peanut Plt&Pre Fold.	12R-38		2.20	3.46	2.94			0.13	8.73	8.71	17.44
Peanut Seed	lb	126.00						1.84	127.84		127.84
Optimize LIFT	oz	7.40						0.11	7.51		7.51
Admire Pro	oz	14.13						0.21	14.34		14.34
Abound	oz	23.52						0.34	23.86		23.86
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Dual Magnum	pt	10.02						0.15	10.17		10.17
Valor SX	oz	10.80						0.16	10.96		10.96
Sprayer 600-750gal	60' 175hp		0.09	0.05	0.14				0.28	0.32	0.60
Acephate 90%	lb	1.36						0.02	1.38		1.38
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Storm	pt	16.74						0.20	16.94		16.94
Cadre	oz	13.32						0.16	13.48		13.48
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.07	5.87		5.87
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.07	6.25		6.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.31	35.59		35.59
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Butyrac 200 (2,4-DB)	pt	2.90						0.03	2.93		2.93
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Select Max	pt	12.73						0.11	12.84		12.84
Crop Oil Conc.(Veg.)	pt	5.80						0.05	5.85		5.85
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	4.12						0.04	4.16		4.16
Tebuconazole 3.6	oz	3.53						0.03	3.56		3.56
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Abound	oz	35.28						0.21	35.49		35.49
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Bravo Weather Stick	pt	6.18						0.04	6.22		6.22
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57				1.14	1.26	2.40
Bravo Weather Stick	pt	6.18						0.02	6.20		6.20
Peanut Dig/Invertor	6R-38		2.86	1.99	3.41			0.02	8.28	6.58	14.86
Peanut Harvester	6R-38		17.08	10.13	17.18			0.13	44.52	50.49	95.01
Dry Peanuts	ton	31.68						0.09	31.77		31.77
Cleaning Peanuts	ton	33.66						0.10	33.76		33.76
Peanut Dump Cart	6-Row		7.15	3.04	8.52			0.05	18.76	15.54	34.30
Irrigate Peanuts	acre	7.92	24.80	7.83	4.73			0.52	45.80	53.36	99.16
TOTALS		459.45	59.51	29.22	44.46	0.00	5.98	598.62	151.65	750.27	

Note: Cost of production estimates are based on 2021 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, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

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	989.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.52	6.18	42.93	41.46	6.18
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.24	20.82	32.96	15.63	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.49	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	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	19.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	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	0.80	7.29	1.37	2.74	2.00	29.68
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	0.88	0.00	0.00	0.00	0.00	0.00	0.37	4.37	6.51	13.02	6.90	27.46
REPAIR & MAINTENANCE	0.32	0.00	0.00	0.00	0.00	0.00	0.20	7.37	1.45	2.90	1.62	15.36
INTEREST ON OP. CAP.	0.06	0.00	0.00	0.00	0.00	0.00	0.55	3.23	0.63	0.78	0.32	0.41
TOTAL DIRECT EXPENSES	1.84	0.00	0.00	0.00	0.00	0.00	32.14	223.41	54.90	89.60	52.30	144.43
NET INCOME	-1.84	0.00	0.00	0.00	0.00	0.00	-32.14	-223.41	-54.90	-89.60	-52.30	844.57
NET INCOME TO DATE	-1.84	-1.84	-1.84	-1.84	-1.84	-1.84	-33.98	-257.39	-312.29	-401.89	-454.19	390.38

Note: Cost of production estimates are based on 2021 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, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Peanut Runner	322.50	344.00	365.50	387.00	408.50	430.00	451.50	473.00	494.50	516.00	537.50		
PERCENT	YIELD	UNIT	dollars										
50	1.15	ton	-194 -346	-170 -321	-145 -297	-120 -272	-96 -247	-71 -223	-46 -198	-21 -173	2 -148	27 -124	52 -99
60	1.38	ton	-127 -279	-97 -249	-68 -219	-38 -189	-8 -160	20 -130	50 -100	80 -71	110 -41	139 -11	169 17
70	1.61	ton	-59 -211	-25 -176	9 -142	44 -107	78 -72	113 -38	147 -3	182 30	217 65	251 100	286 134
80	1.84	ton	7 -143	47 -104	87 -64	126 -25	166 14	205 54	245 93	284 133	324 172	363 212	403 251
90	2.07	ton	75 -76	120 -31	164 12	209 57	253 101	298 146	342 190	387 235	431 279	476 324	520 368
100	2.30	ton	143 -8	192 40	242 90	291 139	340 189	390 238	439 288	489 337	538 387	588 436	637 485
110	2.53	ton	210 59	265 113	319 167	373 222	428 276	482 331	537 385	591 439	645 494	700 548	754 603
120	2.76	ton	278 126	337 186	397 245	456 304	515 364	575 423	634 482	693 542	753 601	812 660	871 720
130	2.99	ton	345 194	410 258	474 322	538 387	603 451	667 515	731 580	795 644	860 708	924 772	988 837
140	3.22	ton	413 261	482 331	552 400	621 469	690 538	759 608	828 677	898 746	967 815	1036 885	1105 954
150	3.45	ton	481 329	555 403	629 477	703 552	777 626	852 700	926 774	1000 848	1074 922	1148 997	1222 1071

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 2021 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, 2022

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (250-299 hp)	265 hp	391,000	300	8	13.64	15.27	32.19	40.72	88.18	151.14	239.33
Combine (300-349 hp)	325 hp	413,700	300	8	16.73	15.27	39.48	43.09	97.84	159.92	257.76
Combine (350-399 hp)	355 hp	437,900	300	8	18.27	15.27	43.11	45.61	104.00	169.27	273.27
Combine (400-449 hp)	425 hp	474,800	300	8	21.87	15.27	51.62	49.45	116.35	183.54	299.89
Combine (450-499hp)	475 hp	489,900	300	8	24.44	15.27	57.69	51.03	124.00	189.37	313.37
Tractor (20-39hp)CB	MFWD 30	28,600	600	8	1.54	15.27	3.64	0.89	19.80	5.01	24.81
Tractor (20-39hp)RB	MFWD 30	21,400	600	8	1.54	15.27	3.64	0.66	19.58	3.74	23.33
Tractor (40-59hp)CB	2WD 50	32,100	600	8	2.57	15.27	6.07	1.00	22.34	5.62	27.97
Tractor (40-59hp)CB	MFWD 50	42,600	600	8	2.57	15.27	6.07	1.33	22.67	7.46	30.13
Tractor (40-59hp)RB	2WD 50	23,300	600	8	2.57	15.27	6.07	0.72	22.07	4.08	26.15
Tractor (40-59hp)RB	MFWD 50	30,500	600	8	2.57	15.27	6.07	0.95	22.29	5.34	27.64
Tractor (60-89hp)CB	2WD 75	56,700	600	8	3.86	15.27	9.11	1.77	26.15	9.93	36.08
Tractor (60-89hp)CB	MFWD 75	60,500	600	8	3.86	15.27	9.11	1.89	26.27	10.59	36.87
Tractor (60-89hp)RB	2WD 75	43,100	600	8	3.86	15.27	9.11	1.34	25.72	7.55	33.27
Tractor (60-89hp)RB	MFWD 75	43,800	600	8	3.86	15.27	9.11	1.36	25.74	7.67	33.42
Tractor (90-119hp)CB	2WD 105	74,700	600	8	5.40	15.27	12.75	2.33	30.35	13.08	43.44
Tractor (90-119hp)CB	MFWD 105	94,500	600	8	5.40	15.27	12.75	2.95	30.97	16.55	47.53
Tractor (90-119hp)RB	2WD 105	67,100	600	8	5.40	15.27	12.75	2.09	30.12	11.75	41.87
Tractor (90-119hp)RB	MFWD 105	75,300	600	8	5.40	15.27	12.75	2.35	30.37	13.19	43.57
Tractor (120-139hp)CB	2WD 130	117,400	600	8	6.69	15.27	15.79	3.66	34.73	20.56	55.29
Tractor (120-139hp)CB	MFWD 130	131,100	600	8	6.69	15.27	15.79	4.09	35.15	22.96	58.12
Tractor (140-159hp)	2WD 150	116,100	600	8	7.72	15.27	18.22	3.62	37.11	20.34	57.45
Tractor (140-159hp)CB	MFWD 150	143,000	600	8	7.72	15.27	18.22	4.46	37.96	25.05	63.01
Tractor (160-179hp)CB	MFWD 170	164,000	600	8	8.75	15.27	20.65	5.12	41.04	30.21	71.26
Tractor (180-199hp)CB	MFWD 190	206,000	600	8	9.77	15.27	23.08	6.43	44.78	37.95	82.74
Tractor (200-249hp)CB	MFWD 225	248,000	600	8	11.58	15.27	27.33	7.75	50.35	45.69	96.04
Tractor (250-349hp)CB	4WD 300	343,000	600	8	15.44	15.27	36.44	10.71	62.43	63.19	125.62
Tractor (250-349hp)CB	MFWD 300	324,000	600	8	15.44	15.27	36.44	10.12	61.83	59.69	121.53
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	15.27	36.44	10.28	61.99	60.61	122.60
Tractor (350-449hp)	Track 400	492,000	600	8	20.58	15.27	48.59	15.37	79.23	90.64	169.88
Tractor (350-449hp)CB	4WD 400	406,000	600	8	20.58	15.27	48.59	12.68	76.54	74.80	151.34
Tractor (450-550hp)CB	4WD 500	430,000	600	8	25.73	15.27	60.73	13.43	89.44	79.22	168.66
Tractor (450-550hp)CB	Track 500	496,000	600	8	25.73	15.27	60.73	15.50	91.50	91.38	182.88
Utility Vehicle	800 CC	12,200	200	8	0.70	15.27	1.96	1.90	19.14	7.07	26.21
Utility Vehicle	900 CC	15,800	200	8	1.00	15.27	2.81	2.46	20.54	9.16	29.71

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, 2022

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	6.27	7.82	10.79	24.89	40.05	64.95
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.27	10.95	14.13	31.36	52.46	83.83
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.19	7.32	9.61	21.12	35.66	56.79
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	5.31	9.41	15.85	30.57	58.84	89.42
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.19	7.43	12.51	24.14	46.45	70.60
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.27	12.52	21.58	40.38	80.11	120.50
Cotton Picker/Module	6R-30 (500)	854,000	200	8	25.73	0.218	5.31	13.25	29.12	47.68	108.07	155.76
Cotton Picker/Module	6R-38 (500)	854,000	200	8	25.73	0.172	4.19	10.46	22.99	37.65	85.32	122.97
Dry Applicator SP	70'300cuft	365,000	350	8	16.98	0.015	0.29	0.60	0.29	1.20	1.82	3.02
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.34	0.37	0.20	0.92	1.26	2.18
Sprayer 600-825gal	80' 175hp	234,000	350	8	11.81	0.013	0.26	0.36	0.16	0.79	1.02	1.82
Sprayer 600-825gal	90' 250hp	328,000	350	8	12.73	0.011	0.23	0.35	0.20	0.79	1.27	2.06
Sprayer 800gal	100' 250hp	333,000	350	8	14.15	0.010	0.20	0.35	0.18	0.75	1.16	1.91
Sprayer 800gal	80' 250hp	300,000	350	8	12.86	0.013	0.26	0.40	0.21	0.87	1.31	2.18
Sprayer 1000-1400gal	90' 275hp	332,000	350	8	14.15	0.010	0.20	0.35	0.18	0.75	1.16	1.91
Sprayer 1000gal	100' 300hp	379,000	350	8	15.44	0.010	0.20	0.38	0.21	0.80	1.32	2.13
Sprayer 1200+gal	120' 300hp	401,000	350	8	15.44	0.008	0.17	0.32	0.18	0.68	1.17	1.85

Notes:

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

Direct: Does not include interest on operating capital.

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp. P.U.		Total Direct	--Fixed-- Imp. P.U.		Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----							
Cultivate & Post	6R-30	MFWD 150	25,100	150	10	0.146	2.90	2.67	0.98	0.65	7.21	2.41	3.67	13.30
Cultivate & Post	6R-38	MFWD 150	25,900	150	10	0.115	2.29	2.10	0.79	0.51	5.71	1.96	2.90	10.58
Cultivate & Post	8R-30	MFWD 190	30,400	150	10	0.110	2.17	2.53	0.89	0.70	6.31	2.19	4.17	12.68
Cultivate & Post	8R-38	MFWD 190	35,500	150	10	0.086	1.72	2.00	0.82	0.55	5.11	2.02	3.30	10.43
Cultivate & Post	8R-38 2x1	MFWD 190	51,600	150	10	0.057	1.14	1.33	0.79	0.37	3.65	1.95	2.19	7.80
Cultivate & Post	12R-30	MFWD 225	50,600	150	10	0.073	1.45	2.00	0.98	0.56	5.01	2.43	3.35	10.79
Cultivate & Post	12R-38	MFWD 225	51,600	150	10	0.057	1.14	1.58	0.79	0.44	3.97	1.95	2.64	8.57
Cultivate & Post	16R-30	MFWD 225	70,800	150	10	0.055	1.08	1.50	1.03	0.42	4.05	2.55	2.51	9.12
Disk & Incorporate	14'	2WD 130	32,200	200	10	0.149	2.96	2.36	1.44	0.54	7.32	2.36	3.07	12.76
Disk & Incorporate	20'	MFWD 190	79,300	200	10	0.092	1.83	2.13	2.19	0.59	6.75	3.60	3.50	13.86
Disk & Incorporate	24'	MFWD 190	52,200	200	10	0.087	1.72	2.01	1.36	0.56	5.67	2.23	3.31	11.22
Disk & Incorporate	28'	MFWD 225	62,300	200	10	0.074	1.48	2.04	1.39	0.57	5.50	2.29	3.41	11.21
Disk & Incorporate	32'	MFWD 225	67,900	200	10	0.065	1.29	1.78	1.33	0.50	4.92	2.18	2.99	10.10
Disk Harrow	14'	2WD 130	26,900	180	10	0.140	2.14	2.21	1.04	0.51	5.92	2.06	2.88	10.86
Disk Harrow	20'	MFWD 190	47,100	180	10	0.098	1.49	2.26	1.28	0.63	5.68	2.52	3.72	11.93
Disk Harrow	24'	MFWD 190	46,900	180	10	0.081	1.24	1.88	1.06	0.52	4.73	2.09	3.10	9.93
Disk Harrow	28'	MFWD 225	56,900	180	10	0.070	1.07	1.91	1.10	0.54	4.64	2.17	3.20	10.02
Disk Harrow	32'	MFWD 225	62,600	180	10	0.061	0.93	1.67	1.06	0.47	4.15	2.09	2.80	9.06
Disk Harrow	42'	MFWD 225	110,100	180	10	0.046	0.71	1.27	1.43	0.36	3.78	2.81	2.13	8.73
Disk Harrow 40-100hp	14'	2WD 75	16,700	180	10	0.140	2.14	1.27	0.65	0.18	4.26	1.27	1.05	6.59
Disk Heavy	14'	MFWD 150	26,900	180	10	0.145	2.22	2.65	1.09	0.65	6.63	2.14	3.65	12.43
Disk Heavy	20'	MFWD 190	73,900	180	10	0.097	1.48	2.24	1.99	0.62	6.35	3.92	3.69	13.97
Disk Heavy	28'	MFWD 225	56,900	180	10	0.075	1.15	2.06	1.19	0.58	5.00	2.35	3.45	10.81
Disk Ripper	15'	MFWD 225	50,800	180	10	0.136	2.08	3.72	1.92	1.05	8.78	3.77	6.22	18.78
Ditcher		2WD 130	6,480	200	10	0.020	0.30	0.31	0.05	0.07	0.74	0.06	0.41	1.22
Ditcher (1m/160a)		2WD 130	6,480	200	10	0.009	0.14	0.14	0.02	0.03	0.34	0.02	0.19	0.57
Fert Appl (Liquid)	4R-38	MFWD 150	19,000	150	8	0.154	3.06	2.81	1.95	0.69	8.53	2.05	3.87	14.46
Fert Appl (Liquid)	6R-30	MFWD 170	19,800	150	8	0.130	2.59	2.70	1.72	0.67	7.69	1.81	3.95	13.47
Fert Appl (Liquid)	6R-38	MFWD 170	19,800	150	8	0.103	2.04	2.13	1.36	0.52	6.07	1.43	3.12	10.63
Fert Appl (Liquid)	8R-30	MFWD 190	20,100	150	8	0.098	1.94	2.26	1.31	0.63	6.15	1.38	3.72	11.27
Fert Appl (Liquid)	8R-38	MFWD 190	22,600	150	8	0.077	1.53	1.79	1.16	0.49	4.99	1.22	2.94	9.17
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	25,200	150	8	0.051	1.02	1.19	0.86	0.33	3.41	0.91	1.96	6.29
Fert Appl (Liquid)	12R-30	MFWD 225	25,900	150	8	0.078	1.55	2.14	1.35	0.60	5.66	1.42	3.58	10.68
Fert Appl (Liquid)	12R-38	MFWD 225	23,700	150	8	0.051	1.02	1.41	0.81	0.40	3.65	0.85	2.36	6.87
Field Cult & Inc	42'	MFWD 225	70,900	100	10	0.037	0.74	1.03	0.66	0.29	2.74	2.63	1.72	7.10
Field Cult & Inc	50'	MFWD 225	76,700	100	10	0.031	0.62	0.86	0.60	0.24	2.34	2.39	1.44	6.19
Field Cult & Inc Fld	24'	MFWD 170	37,200	100	10	0.066	1.30	1.36	0.61	0.33	3.62	2.41	1.99	8.04
Field Cult & Inc Fld	32'	MFWD 190	49,800	100	10	0.049	0.98	1.14	0.61	0.31	3.06	2.42	1.88	7.37
Field Cult & Inc Rdg	12'	2WD 150	18,200	100	10	0.132	2.61	2.40	0.60	0.47	6.10	2.36	2.68	11.16
Field Cultivate Fld	24'	MFWD 170	31,800	100	10	0.062	0.95	1.28	0.49	0.31	3.04	1.94	1.87	6.87
Field Cultivate Fld	32'	MFWD 190	44,400	100	10	0.046	0.71	1.07	0.51	0.30	2.60	2.03	1.77	6.41
Field Cultivate Fld	42'	MFWD 225	60,600	100	10	0.035	0.54	0.97	0.53	0.27	2.32	2.11	1.62	6.07
Field Cultivate Fld	50'	MFWD 225	67,600	100	10	0.029	0.45	0.81	0.50	0.23	2.00	1.98	1.36	5.35
Field Cultivate Rdg	12'	2WD 150	12,900	100	10	0.124	1.90	2.26	0.40	0.45	5.02	1.57	2.53	9.12
Grain Cart Corn	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.19	0.16	1.33	0.31	0.96	2.61
Grain Cart Corn	700 bu	MFWD 190	44,900	200	12	0.025	0.38	0.58	0.30	0.16	1.44	0.49	0.96	2.89
Grain Cart Corn	1000 bu	MFWD 225	59,400	200	12	0.025	0.38	0.69	0.40	0.19	1.68	0.65	1.15	3.48
Grain Cart Rice	500 bu	MFWD 190	29,100	200	12	0.062	0.95	1.44	0.49	0.40	3.29	0.78	2.37	6.45
Grain Cart Rice	700 bu	MFWD 190	44,900	200	12	0.055	0.83	1.26	0.66	0.35	3.13	1.06	2.08	6.28
Grain Cart Rice	1000 bu	MFWD 190	59,400	200	12	0.045	0.69	1.05	0.73	0.29	2.79	1.17	1.73	5.70
Grain Cart Soybean	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.20	0.16	1.34	0.32	0.96	2.63
Grain Cart Soybean	700 bu	MFWD 190	44,900	200	12	0.021	0.32	0.49	0.25	0.13	1.21	0.41	0.80	2.42
Grain Cart Soybean	1000 bu	MFWD 190	59,400	200	12	0.021	0.32	0.49	0.34	0.13	1.29	0.54	0.80	2.64
Grain Cart Wht/Sor	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.20	0.16	1.34	0.32	0.96	2.63
Grain Cart Wht/Sor	700 bu	MFWD 190	44,900	200	12	0.021	0.32	0.49	0.25	0.13	1.21	0.41	0.80	2.42
Grain Cart Wht/Sor	1000 bu	MFWD 190	59,400	200	12	0.021	0.32	0.49	0.34	0.13	1.29	0.54	0.80	2.64
Grain Drill	10'	2WD 130	28,700	150	8	0.188	4.58	2.97	2.02	0.69	10.28	3.59	3.87	17.76
Grain Drill	12'	2WD 130	28,200	150	8	0.157	3.82	2.48	1.66	0.57	8.54	2.94	3.23	14.72
Grain Drill	15'	MFWD 150	34,400	150	8	0.125	3.05	2.29	1.62	0.56	7.53	2.87	3.14	13.55
Grain Drill	20'	MFWD 170	41,900	150	8	0.094	2.29	1.94	1.48	0.48	6.20	2.62	2.84	11.68
Grain Drill	24'	MFWD 190	67,300	150	8	0.078	1.91	1.81	1.98	0.50	6.21	3.51	2.98	12.70
Grain Drill	30'	MFWD 225	68,900	150	8	0.062	1.52	1.71	1.62	0.48	5.35	2.87	2.87	11.10
Grain Drill	35'	MFWD 225	93,600	150	8	0.053	1.31	1.47	1.89	0.41	5.09	3.35	2.46	10.90
Grain Drill & Pre	10'	2WD 130	34,000	150	8	0.203	4.94	3.20	2.58	0.74	11.48	4.58	4.17	20.24
Grain Drill & Pre	12'	2WD 130	33,500	150	8	0.169	4.11	2.67	2.12	0.62	9.53	3.76	3.48	16.78
Grain Drill & Pre	15'	MFWD 150	39,800	150	8	0.135	3.29	2.46	2.02	0.60	8.38	3.58	3.39	15.35
Grain Drill & Pre	20'	MFWD 170	47,200	150	8	0.101	2.47	2.09	1.79	0.52	6.88	3.18	3.06	13.13
Grain Drill & Pre	24'	MFWD 190	72,600	150	8	0.084	2.05	1.95	2.30	0.54	6.86	4.08	3.21	14.15
Grain Drill & Pre	30'	MFWD 225	74,200	150	8	0.067	1.64	1.85	1.88	0.52	5.90	3.33	3.09	12.33
Grain Drill & Pre	35'	MFWD 225	104,000	150	8	0.058	1.41	1.58	2.26	0.44	5.70	4.01	2.65	12.37
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.52	1.71	1.34	0.48	5.07	2.38	2.87	10.33
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	0.98	1.49	0.31	0.41	3.21	0.43	2.45	6.10
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.79	1.19	0.27	0.33	2.59	0.38	1.96	4.94
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.59	0.89	0.28	0.24	2.02	0.40	1.47	3.90
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.49	0.88	0.29	0.25	1.92	0.41	1.47	3.81
Header - Corn	6R-30	265 hp	54,200	300	8	0.170	2.60	5.48	2.30	6.93	17.32	3.23	25.73	46.29
Header - Corn	6R-38	265 hp	53,800	300	8	0.134	2.05	4.32	1.80	5.47	13.66	2.53	20.31	36.51
Header - Corn	8R-30	265 hp	71,200	300	8	0.127	1.95	4.11	2.27	5.20	13.53	3.18	19.30	36.02

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Header - Corn	8R-38	325 hp	72,200	300	8	0.100	1.54	3.98	1.82	4.35	11.70	2.55	16.14	30.40
Header - Corn	12R-20	325 hp	105,000	300	8	0.127	1.95	5.04	3.35	5.50	15.84	4.69	20.42	40.97
Header - Corn	12R-30	325 hp	118,000	300	8	0.085	1.30	3.36	2.51	3.66	10.84	3.52	13.61	27.97
Header - Draper (CL)	25' Rigid	265 hp	74,100	300	8	0.203	3.10	6.53	3.44	8.27	21.35	5.00	30.69	57.05
Header - Draper (CL)	30' Rigid	325 hp	78,600	300	8	0.169	2.58	6.68	3.04	7.29	19.60	4.42	27.06	51.09
Header - Draper (CL)	36' Rigid	355 hp	82,300	300	8	0.141	2.15	6.08	2.65	6.43	17.32	3.85	23.87	45.05
Header - Draper (CL)	40' Rigid	425 hp	86,900	300	8	0.126	1.93	6.55	2.52	6.27	17.29	3.66	23.29	44.25
Header - Draper (SL)	25' Rigid	325 hp	74,100	300	8	0.176	2.68	6.94	2.98	7.58	20.20	4.33	28.14	52.68
Header - Draper (SL)	30' Rigid	325 hp	78,600	300	8	0.146	2.23	5.79	2.64	6.32	16.99	3.83	23.45	44.27
Header - Draper (SL)	36' Rigid	355 hp	82,300	300	8	0.122	1.86	5.26	2.30	5.57	15.01	3.34	20.68	39.04
Header - Draper (SL)	40' Rigid	425 hp	86,900	300	8	0.110	1.67	5.67	2.19	5.44	14.98	3.17	20.18	38.35
Header -RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	3.87	8.17	3.21	10.33	25.59	4.50	38.36	68.46
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.23	8.35	2.85	9.11	23.55	4.00	33.82	61.38
Header -RiceStrp(CL)	32'	325 hp	60,800	300	8	0.158	2.42	6.26	2.41	6.83	17.93	3.37	25.37	46.68
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.35	7.08	2.78	8.96	22.18	3.90	33.25	59.33
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	2.79	7.23	2.47	7.90	20.41	3.46	29.31	53.20
Header -RiceStrp(SL)	32'	325 hp	60,800	300	8	0.137	2.09	5.42	2.09	5.92	15.54	2.92	21.98	40.46
Header -Soybean	22' Flex	265 hp	33,800	300	8	0.116	1.77	3.73	0.98	4.72	11.21	1.37	17.54	30.14
Header -Soybean	25' Flex	325 hp	37,000	300	8	0.102	1.56	4.03	0.94	4.40	10.94	1.32	16.33	28.60
Header -Soybean	30' Flex	325 hp	44,700	300	8	0.085	1.30	3.36	0.95	3.66	9.28	1.33	13.61	24.23
Header -Soybean	35' Flex	355 hp	52,200	300	8	0.072	1.11	3.14	0.95	3.32	8.54	1.33	12.35	22.23
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.77	3.73	0.57	4.72	10.81	0.80	17.54	29.16
Header Wheat/Sorghum	25' Rigid	325 hp	25,400	300	8	0.102	1.56	4.03	0.64	4.40	10.64	0.90	16.33	27.89
Header Wheat/Sorghum	30' Rigid	325 hp	29,100	300	8	0.085	1.30	3.36	0.61	3.66	8.95	0.86	13.61	23.43
Land Plane	50'x16'	MFWD 190	11,100	200	10	0.151	2.31	3.50	0.33	0.97	7.12	0.82	5.75	13.71
Levee Pull & Seed	8 Blade	MFWD 170	12,000	100	10	0.003	0.05	0.07	0.00	0.01	0.15	0.04	0.10	0.30
Levee Pull (1m/80a)	8 blade	MFWD 170	8,760	100	10	0.003	0.05	0.07	0.00	0.01	0.15	0.03	0.10	0.29
Levee Splitter (1/80	32"	MFWD 150	3,860	100	10	0.004	0.06	0.07	0.00	0.01	0.16	0.01	0.10	0.28
Module Builder	4R-38 (250)	MFWD 190	34,700	200	10	0.257	6.27	5.94	2.23	1.65	16.11	4.21	9.78	30.11
Module Builder	4R-38 (350)	MFWD 190	34,700	200	10	0.257	6.27	5.94	2.23	1.65	16.11	4.21	9.78	30.11
Module Builder	4R2x1 (350)	MFWD 190	34,700	200	10	0.172	4.19	3.97	1.49	1.10	10.77	2.81	6.53	20.12
Module Builder	6R-30 (355)	MFWD 190	34,700	200	10	0.218	5.31	5.03	1.89	1.40	13.64	3.56	8.28	25.49
Module Builder	6R-38 (355)	MFWD 190	34,700	200	10	0.172	4.19	3.97	1.49	1.10	10.77	2.81	6.53	20.12
NT Grain Drill	10'	2WD 130	34,900	150	8	0.235	5.73	3.72	3.08	0.86	13.40	5.46	4.84	23.72
NT Grain Drill	12'	2WD 130	46,900	150	8	0.163	3.98	2.58	2.87	0.60	10.04	5.10	3.36	18.51
NT Grain Drill	15'	MFWD 150	56,900	150	8	0.130	3.18	2.38	2.79	0.58	8.95	4.95	3.28	17.18
NT Grain Drill	20'	MFWD 170	68,700	150	8	0.098	2.38	2.02	2.53	0.50	7.45	4.48	2.96	14.90
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.99	1.88	3.00	0.52	7.41	5.33	3.10	15.85
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.59	1.78	2.56	0.50	6.45	4.53	2.99	13.98
NT Grain Drill & Pre	10'	2WD 130	40,200	150	8	0.211	5.14	3.34	3.18	0.77	12.45	5.65	4.35	22.45
NT Grain Drill & Pre	12'	2WD 130	52,300	150	8	0.176	4.28	2.78	3.45	0.64	11.17	6.12	3.62	20.92
NT Grain Drill & Pre	15'	MFWD 150	62,200	150	8	0.141	3.43	2.56	3.28	0.63	9.92	5.82	3.53	19.28
NT Grain Drill & Pre	20'	MFWD 170	74,000	150	8	0.105	2.57	2.18	2.93	0.54	8.23	5.20	3.19	16.63
NT Grain Drill & Pre	24'	MFWD 190	103,000	150	8	0.088	2.14	2.03	3.40	0.56	8.15	6.03	3.34	17.52
NT Grain Drill & Pre	30'	MFWD 225	110,000	150	8	0.070	1.71	1.92	2.90	0.54	7.09	5.15	3.22	15.47
NT Plant&Pre-Folding	8R-38	MFWD 170	67,800	150	8	0.083	2.03	1.72	2.12	0.42	6.31	3.76	2.52	12.60
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.055	1.35	1.14	2.23	0.28	5.02	3.95	1.68	10.66
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.57	2.44	3.28	0.68	8.97	5.82	4.01	18.81
NT Plant&Pre-Folding	12R-30	MFWD 190	94,600	150	8	0.070	1.71	1.62	2.50	0.45	6.29	4.43	2.67	13.40
NT Plant&Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.055	1.35	1.28	2.23	0.35	5.23	3.95	2.11	11.30
NT Plant&Pre-Folding	16R-30	MFWD 190	142,000	150	8	0.052	1.28	1.22	2.81	0.34	5.66	4.99	2.00	12.66
NT Plant&Pre-Folding	23R-15	MFWD 190	192,000	150	8	0.073	1.78	1.69	5.28	0.47	9.24	9.37	2.78	21.40
NT Plant&Pre-Folding	24R-20	MFWD 190	214,000	150	8	0.052	1.28	1.22	4.24	0.34	7.09	7.52	2.00	16.61
NT Plant&Pre-Folding	24R-30	MFWD 190	223,000	150	8	0.035	0.85	0.81	2.94	0.22	4.84	5.22	1.33	11.41
NT Plant&Pre-Folding	31R-15	MFWD 225	232,000	150	8	0.054	1.32	1.49	4.75	0.42	8.00	8.42	2.49	18.92
NT Plant&Pre-Folding	32R-15	MFWD 225	230,000	150	8	0.052	1.28	1.44	4.56	0.40	7.70	8.08	2.41	18.20
NT Plant&Pre-Rigid	4R-30	2WD 130	33,800	150	8	0.211	5.14	3.34	2.68	0.77	11.94	4.75	4.35	21.04
NT Plant&Pre-Rigid	4R-38	2WD 130	34,800	150	8	0.166	4.05	2.63	2.17	0.61	9.46	3.85	3.42	16.74
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,600	150	8	0.141	3.43	2.56	2.30	0.63	8.93	4.08	3.53	16.55
NT Plant&Pre-Rigid	6R-38	MFWD 150	42,700	150	8	0.111	2.70	2.02	1.78	0.49	7.01	3.15	2.78	12.96
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,200	150	8	0.105	2.57	2.18	2.14	0.54	7.44	3.80	3.19	14.45
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,100	150	8	0.083	2.03	1.72	1.63	0.42	5.82	2.89	2.52	11.24
NT Plant&Pre-Rigid	11R-15	MFWD 170	65,100	150	8	0.143	3.50	2.97	3.51	0.73	10.72	6.22	4.34	21.29
NT Plant&Pre-Rigid	11R-20	MFWD 170	64,300	150	8	0.115	2.81	2.38	2.78	0.59	8.57	4.93	3.49	17.01
NT Plant&Pre-Rigid	12R-20	MFWD 190	66,600	150	8	0.105	2.57	2.44	2.64	0.68	8.33	4.68	4.01	17.03
NT Plant&Pre-Rigid	12R-30	MFWD 190	86,500	150	8	0.070	1.71	1.62	2.28	0.45	6.08	4.05	2.67	12.81
NT Plant&Pre-Rigid	15R-15	MFWD 190	87,300	150	8	0.113	2.75	2.61	3.70	0.72	9.79	6.56	4.29	20.65
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.35	1.52	3.61	0.43	6.91	6.40	2.54	15.86
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	134,900	150	8	0.083	2.03	2.28	4.22	0.64	9.19	7.49	3.82	20.51
NT Plant-Folding	8R-38	MFWD 170	62,500	150	8	0.077	1.88	1.60	1.81	0.39	5.70	3.22	2.34	11.28
NT Plant-Folding	8R-38 2x1	MFWD 170	96,300	150	8	0.051	1.25	1.06	1.86	0.26	4.45	3.30	1.56	9.32
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.38	2.26	2.85	0.63	8.14	5.05	3.72	16.92
NT Plant-Folding	12R-30	MFWD 190	84,300	150	8	0.065	1.59	1.51	2.06	0.42	5.59	3.66	2.48	11.74
NT Plant-Folding	12R-38	MFWD 190	96,300	150	8	0.051	1.25	1.19	1.86	0.33	4.65	3.30	1.96	9.92
NT Plant-Folding	16R-30	MFWD 190	132,000	150	8	0.049	1.19	1.13	2.43	0.31	5.07	4.30	1.86	11.24
NT Plant-Folding	23R-15	MFWD 190	182,000	150	8	0.068	1.65	1.57	4.65	0.43	8.32	8.24	2.58	19.16
NT Plant-Folding	24R-20	MFWD 190	204,000	150	8	0.049	1.19	1.13	3.75	0.31	6.40	6.65	1.86	14.92
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.79	0.75	2.55	0.21	4.31	4.52	1.24	10.08
NT Plant-Folding	31R-15	MFWD 225	222,000	150	8	0.050	1.23	1.38	4.22	0.39	7.24	7.48	2.31	17.05

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total		--Fixed--		Total Cost
									Imp.	P.U.	Direct	Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
NT Plant-Folding	32R-15	MFWD 225	219,000	150	8	0.049	1.19	1.34	4.03	0.38	6.95	7.14	2.24	16.34	
NT Plant-Rigid	4R-30	2WD 130	28,400	150	8	0.196	4.77	3.10	2.09	0.72	10.69	3.70	4.04	18.44	
NT Plant-Rigid	4R-38	2WD 130	29,500	150	8	0.154	3.76	2.44	1.71	0.56	8.48	3.03	3.18	14.69	
NT Plant-Rigid	6R-30	MFWD 150	38,300	150	8	0.130	3.18	2.38	1.88	0.58	8.03	3.33	3.28	14.65	
NT Plant-Rigid	6R-38	MFWD 150	37,300	150	8	0.103	2.51	1.88	1.44	0.46	6.30	2.56	2.58	11.45	
NT Plant-Rigid	8R-30	MFWD 170	48,900	150	8	0.098	2.38	2.02	1.80	0.50	6.72	3.19	2.96	12.88	
NT Plant-Rigid	8R-38	MFWD 170	46,800	150	8	0.077	1.88	1.60	1.36	0.39	5.25	2.41	2.34	10.01	
NT Plant-Rigid	11R-15	MFWD 170	59,700	150	8	0.133	3.25	2.75	2.99	0.68	9.68	5.30	4.03	19.02	
NT Plant-Rigid	11R-20	MFWD 170	59,000	150	8	0.107	2.61	2.21	2.37	0.55	7.75	4.20	3.24	15.20	
NT Plant-Rigid	12R-20	MFWD 190	61,200	150	8	0.098	2.38	2.26	2.25	0.63	7.54	3.99	3.72	15.26	
NT Plant-Rigid	12R-30	MFWD 190	76,200	150	8	0.065	1.59	1.51	1.87	0.42	5.39	3.31	2.48	11.19	
NT Plant-Rigid	15R-15	MFWD 190	77,000	150	8	0.105	2.55	2.42	3.03	0.67	8.68	5.37	3.98	18.05	
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.25	1.41	3.15	0.40	6.23	5.59	2.36	14.19	
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	1.88	2.12	3.78	0.60	8.39	6.70	3.54	18.65	
Peanut Cond. & Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.52	2.30	0.25	0.64	4.73	0.33	3.79	8.86	
Peanut Conditioner	6-Row	MFWD 190	18,500	300	20	0.100	1.52	2.30	0.37	0.64	4.84	0.35	3.79	8.99	
Peanut Dig/Invertor	4R-30	MFWD 190	38,600	300	15	0.235	3.60	5.44	2.26	1.51	12.82	2.50	8.95	24.28	
Peanut Dig/Invertor	4R-38	MFWD 190	38,600	300	15	0.186	2.84	4.29	1.78	1.19	10.12	1.97	7.06	19.17	
Peanut Dig/Invertor	6R-38	MFWD 190	54,700	300	15	0.124	1.89	2.86	1.19	0.79	6.74	1.86	4.70	13.32	
Peanut Dump Cart	6-Row	MFWD 190	57,400	300	20	0.310	4.73	7.15	1.03	1.99	14.92	3.76	11.76	30.45	
Peanut Harvester	4R-30	MFWD 225	160,000	300	20	0.849	12.97	23.23	7.70	6.58	50.50	25.74	38.83	115.08	
Peanut Harvester	4R-38	MFWD 225	160,000	300	20	0.934	14.27	25.54	8.47	7.24	55.53	29.98	42.70	128.21	
Peanut Harvester	6R-38	MFWD 225	175,000	300	20	0.625	9.54	17.08	5.28	4.84	36.75	21.92	28.55	87.24	
Peanut Lifter	6-Row	MFWD 225	7,440	300	20	0.100	1.52	2.73	0.15	0.77	5.18	0.14	4.56	9.89	
Peanut Plt&Pre Fold.	12R-38	MFWD 190	94,300	150	8	0.080	1.95	1.85	2.84	0.51	7.17	5.03	3.05	15.26	
Peanut Plt&Pre Rigid	8R-30	MFWD 190	46,000	150	8	0.152	3.71	3.52	2.63	0.98	10.86	4.67	5.79	21.33	
Peanut Plt&Pre Rigid	8R-38	MFWD 190	43,900	150	8	0.120	2.93	2.78	1.98	0.77	8.49	3.52	4.58	16.59	
Peanut Ptlt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	2.93	2.78	5.75	0.77	12.25	10.19	4.58	27.03	
Pipe Spool 160ac	1/4m roll	2WD 130	6,500	15	12	0.003	0.10	0.04	0.01	0.01	0.17	0.11	0.06	0.35	
Pipe Trailer 1m/160a	30'	2WD 130	1,980	100	15	0.003	0.19	0.05	0.00	0.01	0.26	0.00	0.07	0.35	
Plant & Pre-Folding	8R-38	MFWD 170	59,600	150	8	0.080	1.95	1.65	1.79	0.41	5.81	3.17	2.42	11.42	
Plant & Pre-Folding	8R-38 2x1	MFWD 170	94,300	150	8	0.053	1.30	1.10	1.88	0.27	4.56	3.34	1.61	9.53	
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.47	2.34	2.68	0.65	8.15	4.76	3.85	16.77	
Plant & Pre-Folding	12R-30	MFWD 190	82,400	150	8	0.067	1.64	1.56	2.09	0.43	5.73	3.70	2.56	12.01	
Plant & Pre-Folding	12R-38	MFWD 190	94,300	150	8	0.053	1.30	1.23	1.88	0.34	4.76	3.34	2.02	10.14	
Plant & Pre-Folding	16R-30	MFWD 190	126,000	150	8	0.050	1.23	1.17	2.39	0.32	5.13	4.25	1.92	11.31	
Plant & Pre-Folding	23R-15	MFWD 190	169,000	150	8	0.070	1.71	1.62	4.46	0.45	8.26	7.91	2.67	18.86	
Plant & Pre-Folding	24R-20	MFWD 190	190,000	150	8	0.050	1.23	1.17	3.61	0.32	6.35	6.41	1.92	14.68	
Plant & Pre-Folding	24R-30	MFWD 190	198,000	150	8	0.033	0.82	0.78	2.51	0.21	4.33	4.45	1.28	10.07	
Plant & Pre-Folding	31R-15	MFWD 225	200,000	150	8	0.052	1.27	1.43	3.93	0.40	7.05	6.97	2.39	16.42	
Plant & Pre-Folding	32R-15	MFWD 225	197,000	150	8	0.050	1.23	1.38	3.75	0.39	6.76	6.64	2.31	15.73	
Plant & Pre-Rigid	4R-30	2WD 130	29,700	150	8	0.203	4.94	3.20	2.26	0.74	11.15	4.00	4.17	19.34	
Plant & Pre-Rigid	4R-38	2WD 130	30,800	150	8	0.159	3.89	2.52	1.84	0.58	8.84	3.27	3.28	15.41	
Plant & Pre-Rigid	6R-30	MFWD 150	37,500	150	8	0.135	3.29	2.46	1.90	0.60	8.26	3.37	3.39	15.03	
Plant & Pre-Rigid	6R-38	MFWD 150	36,600	150	8	0.106	2.60	1.94	1.46	0.47	6.49	2.59	2.67	11.76	
Plant & Pre-Rigid	8R-30	MFWD 170	46,000	150	8	0.101	2.47	2.09	1.75	0.52	6.83	3.10	3.06	13.01	
Plant & Pre-Rigid	8R-38	MFWD 170	43,900	150	8	0.080	1.95	1.65	1.32	0.41	5.34	2.34	2.42	10.11	
Plant & Pre-Rigid	11R-15	MFWD 170	53,900	150	8	0.148	3.60	3.06	2.99	0.75	10.42	5.30	4.47	20.21	
Plant & Pre-Rigid	11R-20	MFWD 170	53,100	150	8	0.110	2.69	2.29	2.20	0.56	7.76	3.91	3.35	15.03	
Plant & Pre-Rigid	12R-20	MFWD 190	54,300	150	8	0.101	2.47	2.34	2.06	0.65	7.53	3.66	3.85	15.05	
Plant & Pre-Rigid	12R-30	MFWD 190	74,200	150	8	0.067	1.64	1.56	1.88	0.43	5.52	3.33	2.56	11.43	
Plant & Pre-Rigid	15R-15	MFWD 190	72,000	150	8	0.108	2.64	2.50	2.93	0.69	8.78	5.19	4.12	18.09	
Plant & Pre-TwinRow	12R-30/40	MFWD 225	160,700	150	8	0.053	1.30	1.46	3.22	0.41	6.39	5.70	2.44	14.54	
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	1.95	2.19	3.82	0.62	8.59	6.77	3.66	19.03	
Plant - Folding	8R-38	MFWD 170	54,300	150	8	0.074	1.81	1.53	1.51	0.38	5.25	2.68	2.25	10.19	
Plant - Folding	8R-38 2x1	MFWD 170	84,000	150	8	0.049	1.20	1.02	1.56	0.25	4.04	2.77	1.49	8.31	
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.29	2.17	2.30	0.60	7.38	4.08	3.57	15.04	
Plant - Folding	12R-30	MFWD 190	72,100	150	8	0.062	1.52	1.45	1.69	0.40	5.08	3.01	2.38	10.48	
Plant - Folding	12R-38	MFWD 190	84,000	150	8	0.049	1.20	1.14	1.56	0.31	4.23	2.77	1.88	8.88	
Plant - Folding	16R-30	MFWD 190	115,000	150	8	0.047	1.14	1.08	2.03	0.30	4.57	3.60	1.78	9.96	
Plant - Folding	23R-15	MFWD 190	158,000	150	8	0.065	1.59	1.51	3.87	0.42	7.40	6.87	2.48	16.76	
Plant - Folding	24R-20	MFWD 190	179,000	150	8	0.047	1.14	1.08	3.16	0.30	5.70	5.60	1.78	13.09	
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.76	0.72	2.16	0.20	3.86	3.84	1.19	8.89	
Plant - Folding	31R-15	MFWD 225	190,000	150	8	0.048	1.18	1.33	3.47	0.37	6.36	6.15	2.22	14.74	
Plant - Folding	32R-15	MFWD 225	187,000	150	8	0.047	1.14	1.28	3.30	0.36	6.10	5.85	2.15	14.11	
Plant - Rigid	4R-30	2WD 130	24,400	150	8	0.188	4.58	2.97	1.72	0.69	9.98	3.05	3.87	16.91	
Plant - Rigid	4R-38	2WD 130	25,400	150	8	0.148	3.61	2.34	1.41	0.54	7.91	2.50	3.05	13.47	
Plant - Rigid	6R-30	MFWD 150	32,200	150	8	0.125	3.05	2.29	1.51	0.56	7.42	2.69	3.14	13.26	
Plant - Rigid	6R-38	MFWD 150	31,200	150	8	0.099	2.41	1.80	1.16	0.44	5.82	2.05	2.48	10.37	
Plant - Rigid	8R-30	MFWD 170	40,700	150	8	0.094	2.29	1.94	1.43	0.48	6.16	2.55	2.84	11.56	
Plant - Rigid	8R-38	MFWD 170	38,600	150	8	0.074	1.81	1.53	1.07	0.38	4.81	1.91	2.25	8.97	
Plant - Rigid	11R-15	MFWD 170	48,500	150	8	0.137	3.34	2.84	2.50	0.70	9.39	4.43	4.15	17.99	
Plant - Rigid	11R-20	MFWD 170	47,800	150	8	0.103	2.50	2.12	1.84	0.52	7.00	3.27	3.11	13.39	
Plant - Rigid	12R-20	MFWD 190	49,000	150	8	0.094	2.29	2.17	1.73	0.60	6.80	3.07	3.57	13.45	
Plant - Rigid	12R-30	MFWD 190	64,000	150	8	0.062	1.52	1.45	1.50	0.40	4.89	2.67	2.38	9.95	
Plant - Rigid	15R-15	2WD 150	61,700	150	8	0.094	2.29	1.71	2.18	0.34	6.53	3.86	1.91	12.32	
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.20	1.35	2.79	0.38	5.73	4.94	2.26	12.95	
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	1.81	2.03	3.38	0.57	7.80	5.99	3.40	17.20	
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	1.90	1.96	0.21	0.45	4.54	0.27	2.55	7.37	

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Imp. P.U.	Total Direct	---Fixed--- Imp. P.U.	Total Cost	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Roller/Cultipacker	20'	MFWD 150	12,500	300	12	0.074	1.14	1.36	0.22	0.33	3.05	0.27	1.87	5.20
Roller/Cultipacker	30'	MFWD 170	16,900	300	12	0.049	0.75	1.02	0.19	0.25	2.24	0.25	1.50	3.99
Roller/Cultipacker	38'	MFWD 225	24,200	300	12	0.039	0.60	1.07	0.22	0.30	2.20	0.28	1.79	4.28
Roller/Stubble	20'	2WD 50	14,600	300	12	0.074	1.14	0.45	0.25	0.05	1.90	0.32	0.30	2.53
Roller/Stubble	32'	MFWD 225	24,500	300	12	0.046	0.71	1.27	0.26	0.36	2.61	0.34	2.13	5.09
Rotary Cutter	7'	MFWD 130	0	185	10	0.168	2.57	2.65	0.00	0.68	5.91	0.00	3.86	9.78
Rotary Cutter	12'	2WD 150	14,100	185	10	0.098	1.49	1.78	1.12	0.35	4.76	0.73	1.99	7.50
Rotary Cutter-Flex	15'	MFWD 150	21,800	185	10	0.078	1.19	1.43	1.38	0.35	4.37	0.91	1.96	7.24
Rotary Cutter-Flex	20'	MFWD 150	30,100	185	10	0.058	0.89	1.07	1.43	0.26	3.67	0.94	1.47	6.09
Row Cond & Inc-Fold.	26'	MFWD 190	29,200	100	10	0.063	1.25	1.46	0.46	0.40	3.59	1.82	2.40	7.82
Row Cond & Inc-Fold.	38'	MFWD 225	41,800	100	10	0.043	0.85	1.18	0.45	0.33	2.83	1.78	1.98	6.60
Row Cond & Inc-Rigid	13'	2WD 130	13,400	100	10	0.126	2.51	2.00	0.42	0.46	5.40	1.67	2.61	9.69
Row Cond & Inc-Rigid	21'	2WD 170	19,500	100	10	0.078	1.55	1.62	0.38	0.29	3.85	1.50	1.72	7.08
Row Cond & Inc-Rigid	26'	MFWD 190	23,900	100	10	0.026	0.52	0.61	0.15	0.17	1.47	0.62	1.00	3.10
Row Cond Folding	26'	MFWD 225	23,900	100	10	0.059	0.91	1.63	0.35	0.46	3.36	1.40	2.72	7.49
Row Cond Folding	38'	MFWD 225	31,500	100	10	0.040	0.62	1.11	0.32	0.31	2.37	1.26	1.86	5.51
Row Cond Rigid	13'	2WD 130	8,670	100	10	0.119	1.82	1.88	0.25	0.43	4.40	1.01	2.45	7.88
Row Cond Rigid	21'	2WD 170	14,200	100	10	0.073	1.12	1.52	0.26	0.27	3.19	1.03	1.62	5.84
Row Cond Rigid	26'	MFWD 190	18,600	100	10	0.059	0.91	1.37	0.27	0.38	2.95	1.09	2.26	6.31
Row Cond./Roll-Fol	30'	MFWD 190	46,200	160	10	0.062	0.95	1.44	0.72	0.40	3.52	1.77	2.37	7.66
Row Cond./Roll-Fold.	26'	MFWD 190	26,500	160	10	0.072	1.10	1.66	0.47	0.46	3.70	1.17	2.73	7.61
Row Cond./Roll-Fold.	40'	MFWD 225	34,000	160	10	0.046	0.71	1.28	0.39	0.36	2.75	0.97	2.14	5.88
Row Cond./Roll-Rig	21'	MFWD 190	25,800	160	10	0.089	1.36	2.06	0.57	0.57	4.57	1.41	3.38	9.37
Row Cond./Roll-Rig	26'	MFWD 190	28,400	160	10	0.072	1.10	1.66	0.51	0.46	3.74	1.25	2.73	7.73
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.02	0.97	0.34	0.27	2.60	0.64	1.59	4.84
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	5.15	0.51	0.08	0.49	6.25	0.09	1.84	8.19
Spray (ATV)	20"	800 CC	1,690	200	8	0.084	1.67	0.16	0.06	0.16	2.07	0.07	0.59	2.74
Spray (Band)	27' Fold	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Band)	40' Fold	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Band)	50' Fold	MFWD 170	9,160	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Band)	60' Fold	MFWD 170	14,700	200	8	0.028	0.55	0.58	0.19	0.14	1.48	0.21	0.85	2.55
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,500	200	8	0.130	2.57	2.37	0.51	0.58	6.05	0.58	3.26	9.89
Spray (Bcast/HB)	20' Rigid	MFWD 150	9,960	200	8	0.084	1.67	1.54	0.39	0.37	3.99	0.44	2.11	6.55
Spray (Bcast/HB)	27' Fold	MFWD 170	16,100	200	8	0.062	1.24	1.29	0.47	0.32	3.32	0.53	1.89	5.75
Spray (Bcast/HB)	27' Rigid	MFWD 170	11,700	200	8	0.062	1.24	1.29	0.34	0.32	3.20	0.38	1.89	5.47
Spray (Bcast/HB)	30' Fold	MFWD 170	17,100	200	8	0.056	1.11	1.16	0.45	0.28	3.02	0.50	1.70	5.23
Spray (Bcast/HB)	40' Fold	MFWD 170	19,900	200	8	0.042	0.83	0.87	0.39	0.21	2.32	0.44	1.27	4.04
Spray (Broadcast)	27'	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Broadcast)	40'	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Broadcast)	50'	MFWD 170	9,200	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Broadcast)	60'	MFWD 170	14,700	200	8	0.028	0.55	0.58	0.19	0.14	1.48	0.21	0.85	2.55
Spray (Direct/Hood)	8R-30	MFWD 170	17,800	200	8	0.084	1.67	1.74	0.70	0.43	4.56	0.79	2.55	7.91
Spray (Direct/Hood)	8R-38	MFWD 170	18,700	200	8	0.066	1.32	1.38	0.58	0.34	3.63	0.65	2.02	6.31
Spray (Direct/Hood)	12R-30	MFWD 170	24,900	200	8	0.056	1.11	1.16	0.65	0.28	3.22	0.73	1.70	5.67
Spray (Direct/Hood)	12R-38	MFWD 170	26,100	200	8	0.044	0.88	0.91	0.54	0.22	2.57	0.61	1.34	4.53
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.67	1.74	0.61	0.43	4.47	0.68	2.55	7.71
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.32	1.38	0.48	0.34	3.53	0.54	2.02	6.10
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	22,900	200	8	0.044	0.88	0.91	0.47	0.22	2.50	0.53	1.34	4.38
Spray (Direct/Layby)	12R-30	MFWD 170	22,900	200	8	0.056	1.11	1.16	0.60	0.28	3.17	0.67	1.70	5.55
Spray (Direct/Layby)	12R-38	MFWD 170	22,900	200	8	0.044	0.88	0.91	0.47	0.22	2.50	0.53	1.34	4.38
Spray (Direct/Layby)	16R-20/30	MFWD 225	26,700	200	8	0.062	1.24	1.71	0.78	0.48	4.22	0.87	2.86	7.96
Spray (Levee Leaper)	50'	MFWD 225	13,400	200	8	0.033	0.67	0.92	0.21	0.26	2.07	0.23	1.54	3.85
Spray (Pull Type)	60'	MFWD 225	49,600	200	8	0.028	0.55	0.77	0.65	0.21	2.20	0.73	1.28	4.22
Spray (Pull Type)	80'	MFWD 225	53,300	200	8	0.021	0.41	0.57	0.52	0.16	1.68	0.59	0.96	3.24
Spray (Pull Type)	90'	MFWD 225	54,200	200	8	0.018	0.37	0.51	0.47	0.14	1.50	0.53	0.85	2.90
Spray (Pull Type)	120'	MFWD 225	84,300	200	8	0.014	0.27	0.38	0.55	0.10	1.33	0.62	0.64	2.59
Spray (Ropewick)	20'	MFWD 190	4,100	200	8	0.084	1.67	1.95	0.16	0.54	4.33	0.18	3.21	7.72
Spray (Spot)	27'	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Spot)	40'	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Spot)	50'	MFWD 170	9,200	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Spot)	60'	MFWD 225	14,700	200	8	0.028	0.55	0.77	0.19	0.21	1.74	0.21	1.28	3.24
Stalk Shredder	14'	MFWD 150	18,400	200	10	0.117	1.79	2.14	1.89	0.52	6.37	1.06	2.95	10.39
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.25	1.50	2.38	0.36	5.52	1.34	2.06	8.93
Stalk Shredder-Flail	12'	MFWD 150	25,900	200	10	0.137	2.09	2.50	3.11	0.61	8.33	1.75	3.44	13.53
Stalk Shredder-Flail	15'	MFWD 150	26,000	200	10	0.110	1.67	2.00	2.50	0.49	6.67	1.40	2.75	10.83
Stalk Shredder-Flail	18'	MFWD 150	29,600	200	10	0.091	1.39	1.67	2.37	0.40	5.85	1.33	2.29	9.48
Stalk Shredder-Flail	20'	MFWD 150	31,700	200	10	0.082	1.25	1.50	2.28	0.36	5.42	1.28	2.06	8.77
Stalk Shredder-Flail	25'	MFWD 150	46,900	200	10	0.066	1.00	1.20	2.70	0.29	5.21	1.52	1.65	8.38
Strip Till	8R-38	MFWD 225	43,000	150	10	0.061	0.94	1.68	1.14	0.47	4.25	1.73	2.81	8.80
Strip Till	12R-30	MFWD 225	69,600	150	10	0.061	0.94	1.68	1.85	0.47	4.96	2.81	2.81	10.58
Strip Till	12R-40	MFWD 225	75,400	150	10	0.046	0.70	1.26	1.51	0.35	3.83	2.28	2.11	8.23
Subsoiler	3 shank	MFWD 190	6,500	100	15	0.204	3.12	4.71	0.44	1.31	9.59	0.99	7.75	18.34
Subsoiler	4 shank	MFWD 225	11,430	100	15	0.153	2.34	4.19	0.58	1.19	8.32	1.31	7.01	16.65
Subsoiler	5 shank	MFWD 225	14,630	100	15	0.122	1.86	3.34	0.59	0.94	6.75	1.34	5.59	13.69
Subsoiler low-till	6 shank	MFWD 225	20,000	100	15	0.102	1.56	2.79	0.68	0.79	5.82	1.53	4.66	12.02
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	1.16	2.09	0.54	0.59	4.39	1.22	3.49	9.12

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, 2022

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Apron Maxx RTA	oz	0.84
Agri-Dex	pt	1.75	Artisan	oz	0.23
AMS SuperMax	pt	3.81	Avaris	oz	1.68
Class Act NG	pt	4.75	Avicta Complete Bean	oz	0.26
Crop Oil Conc.(Pet.)	pt	2.86	Bravo Weather Stick	pt	4.12
Crop Oil Conc.(Veg.)	pt	2.90	Captan 50 WP	lb	6.59
Dyne-A-Pak	pt	4.13	Convoy	oz	1.17
Fire-Zone	pt	2.87	Cotton Seed Trt.	acre	20.00
Herbimax	pt	4.00	CruiserMaxx Vibrance	oz	4.60
Induce	pt	3.00	Elatus	oz	3.31
MSO	pt	4.38	Flint Extra	oz	8.75
Penetrator Plus	pt	2.58	Headline EC	oz	4.44
Surfactant	pt	3.30	Miravis Top	oz	1.34
CLEANING			Prior Xemium	oz	3.91
Cleaning Peanuts	ton	18.00	Propimax EC	pt	12.50
CROP CONSULTANT			Prosaro	oz	2.36
Corn Consultant	acre	6.00	Provost Optimum	oz	219.44
Cotton Consultant	acre	8.00	Quadris	oz	1.56
Peanut Consultant	acre	9.25	Quadris Top	oz	2.59
Rice Consultant	acre	8.00	Quadris Top SBX	oz	2.77
Sorghum Consultant	acre	6.00	Quilt	pt	20.23
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	24.10
Wheat Consultant	acre	5.50	Stratego	pt	23.93
CUSTOM FERTILIZE			Stratego YLD	oz	3.46
App Fert by Air	cwt	7.50	Tilt 3.6 EC	oz	0.90
App Fert by Air(Mi)	appl	7.50	Tilt/ Bravo SE	oz	0.72
Custom Apply Fert	acre	7.50	Trivapro	oz	1.50
CUSTOM LIME			GINNING		
Lime (Spread)	ton	59.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	7.50	Mepichlor 4.2%	oz	0.09
CUSTOM SPRAY			Mepiquat	oz	0.21
App by Air (3 gal)	appl	5.60	Mepstar 6	oz	0.08
App by Air (5 gal)	appl	7.00	Palisade	oz	1.20
App by Air (10 gal)	appl	9.30	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSB	oz	1.32
DRYING			Stance	oz	1.27
Dry Corn	bu	0.19	Veto	oz	0.06
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	1.00
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.73
Eradication	acre	1.00	Defol 5	gal	8.54
FERTILIZERS			Display	oz	10.23
Agrotain Ultra	pt	11.30	Ethephon 6E	pt	3.89
Amm Sulfate (21% N)	cwt	19.88	Finish 6	pt	11.74
Boron Plus	pt	4.64	Folex 6EC	pt	11.74
DAP	cwt	35.88	Freefall SC	oz	1.63
Fert 10-34-0	cwt	31.55	Ginstar EC	pt	27.59
Fert 10-34-0	gal	3.68	Gramoxone SL	oz	0.19
Fert 11-37-0	cwt	26.26	Sharpen	oz	5.99
Fert 41-0-0-4	cwt	18.22	Sodium Chlorate 5L	gal	8.54
Lime	ton	49.00	SuperBoll	oz	0.24
NBPT	pt	12.93	Thidiazuron 4lb	oz	2.07
Phosphorus(46% P2O5)	cwt	27.75	Tribufos 6lb	pt	11.74
Potash (60% K2O)	cwt	26.30	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	19.00	Haul Corn	bu	0.23
UAN (32%)	gal	2.10	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	18.45	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	2.05	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	28.63	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.40	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.96	2,4-D Amine 4	pt	2.64
Alfa Guard	lb	1.26	2,4-D Ester	pt	2.41
Allegiance Flowabl	oz	3.35	AAtrex 4L	pt	1.90
Ameristar Top	oz	2.51	Accent Q	oz	18.15
Approach Prima	pt	28.00	Acuron	oz	0.51

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	5.79	Harmony Extra SG	oz	10.86
Anthem Flex	oz	3.57	Helmet	oz	0.41
Anthem Maxx	oz	5.38	Huskie	oz	0.82
Armezon Pro	oz	0.92	Impact	oz	15.32
Atrazine 4L	pt	1.67	Intimidator	oz	0.64
Atrazine 90DF	lb	3.36	Leadoff	oz	6.00
Authority First	lb	68.23	League	oz	4.39
Authority Elite	pt	13.75	Lexar	pt	6.79
Authority Maxx	lb	68.82	Liberty 280	oz	0.59
Authority MTZ	lb	20.63	Loyant	oz	2.29
Avatar	pt	9.62	Makaze	oz	0.21
Avenger	pt	11.75	Metolachlor	pt	5.02
Axial XL	oz	1.10	Metribuzin 4L	pt	8.25
Axiom	oz	2.06	Metribuzin 75	lb	14.73
Banvel	pt	4.81	MSMA	pt	3.42
Barrage	pt	5.36	Newpath	oz	3.84
Basagran	pt	5.43	Obey	oz	1.01
Boundary	pt	10.45	Osprey	oz	4.00
Brake	oz	1.48	Outlook	pt	13.88
Broadaxe	pt	13.95	Panther Pro	oz	6.61
Broadhead	lb	58.21	Parallel	pt	4.01
Buccaneer Plus	pt	2.97	Paraquat	oz	0.16
Buctril	pt	4.28	Parazone 3SL	oz	0.18
Butyrac 200 (2,4-DB)	pt	2.90	Permit	oz	21.96
Cadre	oz	3.33	Permit Plus	oz	21.96
Canopy	oz	2.91	PowerFlex	oz	7.00
Caparol	pt	4.87	Preface	oz	4.99
Capreno	oz	3.96	Prefix	pt	6.17
Cinch	pt	14.18	Provisia	oz	0.76
Cinch ATZ	pt	5.96	Prowl 3.3 EC	pt	5.69
Clarity	pt	11.00	Quelex	oz	7.42
Classic	oz	12.00	RealmQ	oz	5.34
Clearpath	oz	4.06	RebelEx	oz	2.00
Clethodim 2E	oz	0.50	Reflex	pt	6.71
Clincher SF	oz	2.56	Regiment	oz	45.50
Cobra	oz	1.23	Resicore	oz	0.60
Command 3ME	pt	18.00	Resource	oz	2.11
Corvus	oz	4.69	RiceBeaux	pt	5.38
Cotoran	pt	5.79	Riceshot	pt	4.92
Cotton Pro	pt	3.45	Ricestar HT	pt	26.88
Dicamba	pt	6.35	Ringside	pt	5.63
Direx	pt	2.44	Roundup Power Max	oz	0.20
Diuron	pt	3.50	Roundup PowerMax	pt	3.24
Dual II Magnum	pt	11.15	Roundup PowerMax ii	oz	0.19
Dual Magnum	pt	10.02	Roundup Pro	pt	0.20
Duet	pt	6.22	Scepter 70 DG	oz	4.64
Engenia	oz	0.83	Select Max	pt	12.73
Envive	oz	4.06	Sencor/Tricor.Metrib	lb	23.95
Envoke	oz	0.80	Sequence	pt	5.72
Facet L	pt	14.83	Sharpen	oz	5.99
Fierce	oz	6.50	Sinister	pt	13.77
Fierce XLT	oz	3.91	Sonic	oz	4.04
Finesse	oz	12.45	Stalwart	pt	3.82
Firestorm	pt	3.44	Stam 80 EDF	lb	9.45
First Rate	oz	37.79	Stam M4	qt	10.83
Flexstar	pt	7.34	Staple LX	oz	7.89
Flexstar GT	pt	4.73	Storm	pt	11.16
Fusilade DX	oz	0.88	Strada	oz	5.88
Gambit	oz	16.50	Strada Pro	oz	6.56
Glyphosate 3lbs a.e	pt	1.81	Strada XT2	pt	3.26
Glyphosate 3lbs a.e	oz	0.11	Superwham	qt	10.07
Goal 2XL	pt	8.69	Suprend	lb	13.52
Gramoxone SL 2.0	oz	0.19	SureStart II	oz	0.39
Grandstand R	pt	17.79	Surveil	oz	6.70
Grasp	oz	12.07	Synchrony XP	oz	11.26
Grasp Xtra	oz	1.61	Tempest	pt	19.50
Halex GT	pt	5.82	Touchdown Total	qt	10.21
Halomax	oz	21.11	Treflan	pt	2.50

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	3.73	Mustang Max	oz	0.97
Triflurex	pt	3.47	Nuprid 4F	oz	0.94
Ultra Blazer	pt	5.25	Oberon	oz	2.78
Valor EZ	oz	4.71	Orthene 90	lb	11.15
Valor SX	oz	3.60	Permethrin	oz	0.40
Valor XLT	oz	3.45	Portal XLO	oz	0.74
Vamos	pt	6.49	Pounce 25WP	lb	19.52
Verdict	oz	1.54	Prevathon	oz	1.05
Veritas	pt	7.49	Python WDG	oz	19.80
Villain	pt	5.24	Radiant	oz	8.28
Volunteer	pt	10.63	Sevin 4F	pt	56.11
Warrant	pt	3.97	Sevin XLR Plus	qt	16.01
XtendiMax	oz	0.42	Sivanto Prime	oz	3.24
Zidua DF	oz	8.76	Tempest	oz	1.70
Zidua SC	oz	4.93	Transform WG	oz	7.63
INOCULANT			Up-Cyde	oz	0.36
Inoculant-Soybean	acre	1.55	Warrior ZT	oz	2.74
Optimize LIFT	oz	0.50	Zeal	oz	8.42
INSECTICIDES			IRRIGATION SUPPLIES		
Abamectin .15EC	oz	1.75	Roll-Out Pipe	ft	0.24
Acephate 90%	lb	9.87	SEED/PLANTS		
Acephate 90SP	lb	8.58	Corn Seed BtRR	thous	3.75
Admire Pro	oz	1.57	Corn Seed Conv.	thous	1.93
Agri-Mek	oz	2.66	Corn Seed Op Leptra	thous	3.66
Asana .66 XL	oz	0.63	Corn Seed RR2	thous	3.25
Avenger	oz	0.28	Corn Seed VT2P	thous	3.63
Baythroid XL	oz	1.04	Cot. Seed B3XF/W3FE	thous	2.59
Belt	oz	6.80	Cotton Seed B3XF	thous	2.59
Besiege	oz	2.38	Cotton Seed GLB2	thous	2.05
Bidrin 8EC	oz	1.34	Cotton Seed W3FE	thous	2.59
Bifenthrin	oz	0.86	Cotton Seed W3RF	thous	1.98
Bifenture 2EC	oz	0.51	Peanut Seed	lb	0.84
Brigade EC	pt	18.77	Rice Conv Hyb Trt	lb	6.60
Capture LFR	oz	1.37	Rice Fullpage Hyb Tr	lb	7.37
Centric 40WG	oz	4.97	Rice Seed CF(Levees)	lb	1.03
Cypermethrin	oz	1.31	Rice Seed Clearfield	lb	1.03
Declare	oz	1.95	Rice Seed Conv.	lb	0.32
Diamond .83EC	oz	1.28	Rice Seed Cv(Levees)	lb	0.32
Dimethoate 4E	pt	5.65	Rice Seed CvH(Levee)	lb	1.93
Dimilin 2L	oz	1.70	Rice Seed FPH(Levee)	lb	2.67
Endigo	oz	1.53	Rice Seed Provisia	lb	1.25
Force 3G	lb	7.28	Rice Seed Trt/Insect	lbseed	0.29
Hero	oz	1.09	Sorghum Concept	lb	3.10
Imidacloprid 4F	oz	0.78	Sorghum Concept+ Po	lb	3.72
Imidan 70 WSB	oz	0.79	Soybean Enlist E3	lb	1.20
IncidentalPestTrt \$8	acre	8.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$15	acre	15.00	Soybean Seed RR2	lb	1.16
IncidentalPestTrt\$22	acre	22.00	Soybean Seed RR2X	lb	1.34
IncidentalPestTrt\$30	acre	30.00	Wheat Seed Private	lb	0.28
Intrepid 2F	oz	1.91	SOIL TEST		
Intruder 70WSP	oz	1.13	Soil Test	acre	10.00
Lambda	oz	1.88	SURVEY & MARK LEVEES		
Lannate LV	pt	9.30	Survey & Mark Levees	acre	4.50
Macho	oz	0.47	Survey & Mark Levees	acre	4.50
Malathion 8E	pt	9.84			

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2022

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.36
Gasoline	gal	2.81
INTEREST RATES		
Short-term	%	3.50
Intermediate-term	%	4.00

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2022

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	15.27
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, 2022

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '22	5.31	-0.14	5.17	2.35	5.17
Cotton Lint	lb	Dec '22	0.87	-0.016	0.8544	0.52	0.8544
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				4.91	4.09	4.91
Peanuts	ton				430.00	354.89	430.00
Soybeans	bu	Nov '22	12.45	0.01	12.46	6.41	12.46
Rice	bu	Nov '22	6.16	-0.36	5.80	3.21	5.80
Wheat	bu	Jul '22	7.44	0.16	7.28	3.60	7.28

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2021 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 2020 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 2021 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2021 Farm-stored Loan Rate for long grain rough rice. National 2021 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 2008-2021.

Appendix Table 8 Estimated costs for field operations, per acre
 Peanuts irrigated with roll-out pipe
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			TOTAL
-----dollars-----										
Land Plane	50'x16'		0.88	0.32	0.58		0.06	1.84	1.65	3.49
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.19	0.07	0.14		0.01	0.41	0.31	0.72
Roll-out Pipe	ft	7.92					0.12	8.04		8.04
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.26	0.11	0.42		0.01	0.80	0.85	1.65
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.39	0.17	0.63		0.01	1.20	1.27	2.47
Land Forming (\$450)	each								28.81	28.81
Well & Pump, Furrow	each			2.96			0.04	3.00	7.88	10.88
Main Line Pipe	each								4.36	4.36
Engine, RPF, Pnut	each								8.23	8.23
1st July Irrigation	ac-in		5.77	1.05			0.08	6.90		6.90
1st Aug Irrigation	ac-in		5.77	1.05			0.06	6.88		6.88
2nd Aug Irrigation	ac-in		5.77	1.05			0.06	6.88		6.88
1st Sep Irrigation	ac-in		5.77	1.05			0.04	6.86		6.86
TOTALS		7.92	24.80	7.83	4.73	0.00	0.52	45.80	53.36	99.16

Note: Cost of production estimates are based on 2021 input prices.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968."
4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2021 Planning Budgets." Budget Report No. 2020-03, Department of Agricultural Economics, Mississippi State University, October 2020.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2021 Planning Budgets." Budget Report No. 2020-01, Department of Agricultural Economics, Mississippi State University, October 2020.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2022 Planning Budgets." Budget Report No. 2021-08, Department of Agricultural Economics, Mississippi State University, April 2021.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Peanuts 2021 Planning Budgets." Budget Report No. 2020-07, Department of Agricultural Economics, Mississippi State University, October 2020.
16. "Rice 2021 Planning Budgets." Budget Report No. 2020-04, Department of Agricultural Economics, Mississippi State University, October 2020.
17. "Soybeans 2021 Planning Budgets." Budget Report No. 2020-02, Department of Agricultural Economics, Mississippi State University, October 2020.
18. United States Department of Agriculture Farm Service Agency. *Commodity Loan Rates*. <https://www.fsa.usda.gov/programs-and-services/price-support/commodity-loan-rates/index>. Accessed October 22, 2021.
19. "Vegetables 2018 Planning Budgets." Budget Report No. 2017-09, Department of Agricultural Economics, Mississippi State University December 2017.



MISSISSIPPI STATE
UNIVERSITY™

Mark E. Keenum, President

Division of Agriculture, Forestry, and Veterinary Medicine
Keith H. Coble, Vice President

Department of Agricultural Economics
Ardian Harri, Interim Department Head

Mississippi State University is an equal opportunity institution. Discrimination in university employment, programs or activities based on race, color, ethnicity, sex, pregnancy, religion, national origin, disability, age, sexual orientation, genetic information, status as a U.S. veteran, or any other status protected by applicable law is prohibited. For more information, please contact the Office of Compliance and Integrity.