

**PEANUTS  
2023  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2022-07**

**November 2022**



## 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 2023 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.

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

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

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

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# 2023 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 2022. (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.

### **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.

### **Net Returns**

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these budgets, "RETURNS ABOVE DIRECT EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some items are intentionally left out of these calculations, i.e., costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments. These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. These items should, however, be considered by each producer and factored into the final budget each producer develops for his own situation.



## Enterprise Budgets

Table 1.A Estimated costs per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FUNGICIDES</b>					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
<b>HERBICIDES</b>					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
<b>INSECTICIDES</b>					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
<b>SEED/PLANTS</b>					
Peanut Seed	lb	0.84	150.0000	126.00	_____
<b>ADJUVANTS</b>					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
<b>CLEANING</b>					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
<b>DRYING</b>					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
<b>CUSTOM LIME</b>					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
<b>INOCULANT</b>					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
<b>SOIL TEST</b>					
Soil Test	acre	10.00	0.3330	3.33	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	16.54	1.2529	20.73	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
<b>HAND LABOR</b>					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
<b>UNALLOCATED LABOR</b>					
	hour	16.58	1.1080	18.38	_____
<b>DIESEL FUEL</b>					
Tractors	gal	4.48	13.5967	60.92	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	10.49	1.0000	10.49	_____
Tractors	acre	9.85	1.0000	9.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.51	1.0000	11.51	_____
<b>TOTAL DIRECT EXPENSES</b>				635.29	_____
<b>FIXED EXPENSES</b>					
Implements	acre	47.57	1.0000	47.57	_____
Tractors	acre	69.70	1.0000	69.70	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
<b>TOTAL FIXED EXPENSES</b>				133.69	_____
<b>TOTAL SPECIFIED EXPENSES</b>				768.98	_____

Note: Cost of production estimates are based on 2022 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.B Summary of estimated costs and returns per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____
				-----	
TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
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	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1868	1.65	_____
OPERATOR LABOR	hour	16.54	1.3850	22.87	_____
UNALLOCATED LABOR	hour	16.58	1.1080	18.38	_____
DIESEL FUEL	gal	4.48	15.2806	68.46	_____
REPAIR & MAINTENANCE	acre	22.59	1.0000	22.59	_____
INTEREST ON OP. CAP.	acre	11.51	1.0000	11.51	_____
				-----	
TOTAL DIRECT EXPENSES				635.29	_____
RETURNS ABOVE DIRECT EXPENSES				514.71	_____
TOTAL FIXED EXPENSES				133.69	_____
				-----	
TOTAL SPECIFIED EXPENSES				768.98	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				381.02	_____

Note: Cost of production estimates are based on 2022 input prices.

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

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

Table 1.C Estimated resource use for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
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 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
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
<b>TOTALS</b>							<b>1.38</b>	<b>1.25</b>	<b>1.57</b>	<b>1.10</b>

Note: Cost of production estimates are based on 2022 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.D Estimated costs for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	8R-38		3.20	0.74	2.18			0.16	6.28	4.95	11.23
Peanut Plt&Pre Rigid	8R-38		6.27	3.21	4.69			0.38	14.55	12.12	26.67
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatus	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
TOTALS		489.83	68.46	22.59	42.90	0.00	11.51	635.29	133.69	768.98	

Note: Cost of production estimates are based on 2022 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	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	19.31	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	2.22	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	0.40	7.37	1.20	1.60	0.80	31.53
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	0.67	10.31	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.20	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.62	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	216.45	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-216.45	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-263.34	-347.64	-437.01	-478.56	514.71

Note: Cost of production estimates are based on 2022 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch  
 All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-175 -309	-146 -280	-118 -251	-89 -223	-60 -194	-31 -165	-3 -136	25 -108	54 -79	83 -50	111 -21
60	1.20	ton	-95 -228	-60 -194	-26 -159	8 -125	42 -90	77 -56	111 -21	146 12	180 47	215 81	249 116
70	1.40	ton	-14 -148	25 -107	66 -67	106 -27	146 12	186 53	227 93	267 133	307 173	347 214	388 254
80	1.60	ton	66 -67	112 -21	158 24	204 70	250 116	296 162	342 208	388 254	434 300	480 346	526 392
90	1.80	ton	146 12	198 64	250 116	301 168	353 219	405 271	457 323	508 375	560 426	612 478	664 530
100	2.00	ton	227 93	284 151	342 208	399 266	457 323	514 381	572 438	629 496	687 553	744 611	802 668
110	2.20	ton	307 174	371 237	434 300	497 363	560 427	624 490	687 553	750 616	813 680	877 743	940 806
120	2.40	ton	388 254	457 323	526 392	595 461	664 530	733 599	802 668	871 737	940 806	1009 875	1078 944
130	2.60	ton	468 335	543 409	618 484	693 559	767 634	842 708	917 783	992 858	1066 933	1141 1007	1216 1082
140	2.80	ton	549 415	629 496	710 576	790 657	871 737	951 818	1032 898	1112 979	1193 1059	1273 1140	1354 1220
150	3.00	ton	630 496	716 582	802 668	888 755	975 841	1061 927	1147 1013	1233 1100	1320 1186	1406 1272	1492 1358

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 2022 input prices.

Table 2.A Estimated costs per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
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	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	29.6000	4.44	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.2529	20.73	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR					
	hour	16.58	1.1080	18.38	_____
DIESEL FUEL					
Tractors	gal	4.48	13.5967	60.92	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
REPAIR & MAINTENANCE					
Implements	acre	14.03	1.0000	14.03	_____
Tractors	acre	9.85	1.0000	9.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____
TOTAL DIRECT EXPENSES				641.20	_____
FIXED EXPENSES					
Implements	acre	55.11	1.0000	55.11	_____
Tractors	acre	69.70	1.0000	69.70	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
TOTAL FIXED EXPENSES				141.23	_____
TOTAL SPECIFIED EXPENSES				782.43	_____

Note: Cost of production estimates are based on 2022 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.B Summary of estimated costs and returns per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____
				-----	
TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
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	19.31	1.0000	19.31	_____
INOCULANT	acre	4.44	1.0000	4.44	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1868	1.65	_____
OPERATOR LABOR	hour	16.54	1.3850	22.87	_____
UNALLOCATED LABOR	hour	16.58	1.1080	18.38	_____
DIESEL FUEL	gal	4.48	15.2806	68.46	_____
REPAIR & MAINTENANCE	acre	26.13	1.0000	26.13	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____
				-----	
TOTAL DIRECT EXPENSES				641.20	_____
RETURNS ABOVE DIRECT EXPENSES				508.80	_____
TOTAL FIXED EXPENSES				141.23	_____
				-----	
TOTAL SPECIFIED EXPENSES				782.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				367.57	_____

Note: Cost of production estimates are based on 2022 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning

Table 2.C Estimated resource use for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Rigid	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut 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 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
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
<b>TOTALS</b>							<b>1.38</b>	<b>1.25</b>	<b>1.57</b>	<b>1.10</b>

Note: Cost of production estimates are based on 2022 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.D Estimated costs for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Rigid	8R-38		3.20	0.70	2.18			0.16	6.24	4.68	10.92
Peanut Ptl&PreTwin	8R-30/40		6.27	6.79	4.69			0.47	18.22	19.93	38.15
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	4.44						0.12	4.56		4.56
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatius	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
<b>TOTALS</b>		<b>492.05</b>	<b>68.46</b>	<b>26.13</b>	<b>42.90</b>	<b>0.00</b>	<b>11.66</b>	<b>641.20</b>	<b>141.23</b>	<b>782.43</b>	

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 2.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	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	19.31	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	4.44	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	0.40	7.37	1.20	1.60	0.80	31.53
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	0.67	10.31	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	7.74	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.77	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	222.36	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-222.36	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-269.25	-353.55	-442.92	-484.47	508.80

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.  
 \* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin  
 All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-181 -322	-152 -294	-124 -265	-95 -236	-66 -207	-37 -179	-9 -150	19 -121	48 -92	77 -64	105 -35
60	1.20	ton	-100 -242	-66 -207	-31 -173	2 -138	37 -104	71 -69	106 -35	140 -0	175 33	209 68	244 102
70	1.40	ton	-20 -161	19 -121	60 -81	100 -40	140 -0	180 39	221 79	261 120	301 160	341 200	382 240
80	1.60	ton	60 -81	106 -35	152 10	198 56	244 102	290 148	336 194	382 240	428 286	474 332	520 378
90	1.80	ton	140 -0	192 51	244 103	295 154	347 206	399 258	451 310	502 361	554 413	606 465	658 517
100	2.00	ton	221 80	278 137	336 195	393 252	451 310	508 367	566 425	623 482	681 540	738 597	796 655
110	2.20	ton	301 160	365 223	428 287	491 350	554 413	618 476	681 540	744 603	807 666	871 729	934 793
120	2.40	ton	382 241	451 310	520 379	589 448	658 517	727 586	796 655	865 724	934 793	1003 862	1072 931
130	2.60	ton	463 321	537 396	612 471	687 546	762 620	836 695	911 770	986 845	1061 919	1135 994	1210 1069
140	2.80	ton	543 402	624 482	704 563	785 643	865 724	946 804	1026 885	1107 965	1187 1046	1268 1126	1348 1207
150	3.00	ton	624 482	710 569	796 655	882 741	969 827	1055 914	1141 1000	1227 1086	1314 1172	1400 1259	1486 1345

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 2022 input prices.

Table 3.A Estimated costs per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
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	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.1856	19.61	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR					
	hour	16.57	1.0543	17.48	_____
DIESEL FUEL					
Tractors	gal	4.48	12.9499	58.02	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
REPAIR & MAINTENANCE					
Implements	acre	11.30	1.0000	11.30	_____
Tractors	acre	9.41	1.0000	9.41	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.38	1.0000	11.38	_____
TOTAL DIRECT EXPENSES				630.25	_____
FIXED EXPENSES					
Implements	acre	49.22	1.0000	49.22	_____
Tractors	acre	66.56	1.0000	66.56	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
TOTAL FIXED EXPENSES				132.20	_____
TOTAL SPECIFIED EXPENSES				762.45	_____

Note: Cost of production estimates are based on 2022 input prices.

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

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.



Table 3.B Summary of estimated costs and returns per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____
				-----	
TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
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	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1465	1.29	_____
OPERATOR LABOR	hour	16.54	1.3178	21.75	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL	gal	4.48	14.6338	65.56	_____
REPAIR & MAINTENANCE	acre	22.96	1.0000	22.96	_____
INTEREST ON OP. CAP.	acre	11.38	1.0000	11.38	_____
				-----	
TOTAL DIRECT EXPENSES				630.25	_____
RETURNS ABOVE DIRECT EXPENSES				519.75	_____
TOTAL FIXED EXPENSES				132.20	_____
				-----	
TOTAL SPECIFIED EXPENSES				762.45	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				387.55	_____

Note: Cost of production estimates are based on 2022 input prices.

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

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

Table 3.C Estimated resource use for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2023

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 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
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 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
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
<b>TOTALS</b>						-----hours-----				
						1.31	1.18	1.46	1.05	

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 3.D Estimated costs for field operations, per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2023

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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	12R-38		2.40	0.63	1.37			0.12	4.52	4.13	8.65
Peanut Plt&Pre Fold.	12R-38		4.17	3.69	3.12			0.29	11.27	11.45	22.72
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatius	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
<b>TOTALS</b>			<b>489.83</b>	<b>65.56</b>	<b>22.96</b>	<b>40.52</b>	<b>0.00</b>	<b>11.38</b>	<b>630.25</b>	<b>132.20</b>	<b>762.45</b>

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 3.E Estimated monthly income and expense flows per acre  
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2023

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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	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	19.31	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	2.22	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	0.40	4.99	1.20	1.60	0.80	31.53
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	0.67	7.41	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.57	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.49	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	211.41	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-211.41	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-258.30	-342.60	-431.97	-473.52	519.75

Note: Cost of production estimates are based on 2022 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre  
Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch  
All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-170 -302	-141 -274	-113 -245	-84 -216	-55 -187	-26 -159	1 -130	30 -101	59 -72	88 -44	116 -15
60	1.20	ton	-90 -222	-55 -187	-21 -153	13 -118	47 -84	82 -49	116 -15	151 19	185 53	220 88	254 122
70	1.40	ton	-9 -141	30 -101	71 -61	111 -20	151 19	191 59	232 99	272 140	312 180	352 220	393 260
80	1.60	ton	71 -61	117 -15	163 30	209 76	255 122	301 168	347 214	393 260	439 306	485 352	531 398
90	1.80	ton	151 19	203 71	255 122	306 174	358 226	410 278	462 329	513 381	565 433	617 485	669 536
100	2.00	ton	232 100	289 157	347 215	404 272	462 330	519 387	577 445	634 502	692 560	749 617	807 675
110	2.20	ton	312 180	376 243	439 307	502 370	565 433	629 496	692 560	755 623	818 686	882 749	945 813
120	2.40	ton	393 261	462 330	531 399	600 468	669 537	738 606	807 675	876 744	945 813	1014 882	1083 951
130	2.60	ton	473 341	548 416	623 491	698 566	772 640	847 715	922 790	997 865	1071 939	1146 1014	1221 1089
140	2.80	ton	554 422	635 502	715 583	796 663	876 744	957 824	1037 905	1118 985	1198 1066	1279 1146	1359 1227
150	3.00	ton	635 502	721 589	807 675	893 761	980 847	1066 934	1152 1020	1238 1106	1325 1192	1411 1279	1497 1365

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
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	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.2642	20.92	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
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	0.0660	0.56	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL					
Tractors	gal	4.48	13.6762	61.28	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
Irrigate Peanuts	gal	4.48	9.7755	43.80	_____
REPAIR & MAINTENANCE					
Implements	acre	11.55	1.0000	11.55	_____
Tractors	acre	9.90	1.0000	9.90	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	12.78	1.0000	12.78	_____
TOTAL DIRECT EXPENSES				708.19	_____
FIXED EXPENSES					
Implements	acre	51.04	1.0000	51.04	_____
Tractors	acre	70.04	1.0000	70.04	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
Irrigate Peanuts	acre	65.01	1.0000	65.01	_____
TOTAL FIXED EXPENSES				202.51	_____
TOTAL SPECIFIED EXPENSES				910.70	_____

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3<sup>rd</sup> year. Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 4.B Summary of estimated costs and returns per acre  
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.3000	1322.50	_____
				-----	
TOTAL INCOME				1322.50	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
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	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1465	1.29	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	16.54	1.3964	23.06	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL	gal	4.48	25.1356	112.62	_____
REPAIR & MAINTENANCE	acre	30.86	1.0000	30.86	_____
INTEREST ON OP. CAP.	acre	12.78	1.0000	12.78	_____
				-----	
TOTAL DIRECT EXPENSES				708.19	_____
RETURNS ABOVE DIRECT EXPENSES				614.31	_____
TOTAL FIXED EXPENSES				202.51	_____
				-----	
TOTAL SPECIFIED EXPENSES				910.70	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				411.80	_____

Note: Cost of production estimates are based on 2022 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.C Estimated resource use for field operations, per acre  
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2023

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 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
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 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
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							1.39	1.26	1.93	1.05

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.



Table 4.D Estimated costs for field operations, per acre  
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2023

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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	12R-38		2.40	0.63	1.37			0.12	4.52	4.13	8.65
Peanut Plt&Pre Fold.	12R-38		4.17	3.69	3.12			0.29	11.27	11.45	22.72
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatius	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	31.68						0.17	31.85		31.85
Cleaning Peanuts	ton	33.66						0.18	33.84		33.84
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
Irrigate Peanuts	acre	7.92	47.06	7.90	4.84			1.36	69.08	70.31	139.39
TOTALS		506.57	112.62	30.86	45.36	0.00	12.78	708.19	202.51	910.70	

Note: Cost of production estimates are based on 2022 input prices.  
**Fertilizer recommendations are based on the nutrients that the peanut crop removes.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**  
 60% of all peanuts harvested need drying.  
 85% of all peanuts harvested need cleaning.

Table 4.E Estimated monthly income and expense flows per acre  
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2023

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	1322.50
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	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	19.31	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	2.22	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	0.63	0.00	0.00	0.00	0.00	0.00	0.63	7.40	1.43	2.06	1.68	31.53
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.66	0.00	0.00	0.00	0.00	0.00	0.67	8.27	12.96	24.58	13.03	51.45
REPAIR & MAINTENANCE	0.36	0.00	0.00	0.00	0.00	0.00	0.20	7.73	1.65	2.90	1.63	16.39
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.00	1.47	5.88	2.03	1.77	0.58	0.88
TOTAL DIRECT EXPENSES	2.82	0.00	0.00	0.00	0.00	0.00	47.13	226.15	96.79	114.21	55.50	165.59
NET INCOME	-2.82	0.00	0.00	0.00	0.00	0.00	-47.13	-226.15	-96.79	-114.21	-55.50	1156.91
NET INCOME TO DATE	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82	-49.95	-276.10	-372.89	-487.10	-542.60	614.31

Note: Cost of production estimates are based on 2022 input prices.

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

**Fertilization decisions should be based on soil tests.**

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch  
 Furrow irrigated, All Areas, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Peanut Runner	431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75		
PERCENT	YIELD	UNIT	dollars										
50	1.15	ton	-179 -381	-146 -348	-113 -315	-80 -282	-47 -249	-14 -216	18 -183	52 -150	85 -117	118 -84	151 -51
60	1.38	ton	-86 -289	-47 -249	-7 -209	32 -170	71 -130	111 -90	151 -51	190 -11	230 28	270 67	309 107
70	1.61	ton	5 -196	52 -150	98 -104	144 -57	190 -11	237 34	283 81	329 127	376 173	422 219	468 266
80	1.84	ton	98 -104	151 -51	204 1	257 54	310 107	362 160	415 213	468 266	521 319	574 372	627 424
90	2.07	ton	191 -11	250 48	310 107	369 167	429 226	488 286	548 345	607 405	667 464	726 524	786 583
100	2.30	ton	283 81	349 147	415 213	482 279	548 345	614 411	680 477	746 544	812 610	878 676	944 742
110	2.53	ton	376 173	449 246	521 319	594 392	667 464	739 537	812 610	885 682	958 755	1030 828	1103 901
120	2.76	ton	468 266	548 345	627 425	706 504	786 583	865 663	945 742	1024 821	1103 901	1183 980	1262 1059
130	2.99	ton	561 359	647 444	733 530	819 616	905 702	991 788	1077 874	1163 960	1249 1046	1335 1132	1421 1218
140	3.22	ton	654 451	746 544	839 636	931 729	1024 821	1117 914	1209 1007	1302 1099	1394 1192	1487 1284	1579 1377
150	3.45	ton	746 544	845 643	945 742	1044 841	1143 941	1242 1040	1341 1139	1441 1238	1540 1337	1639 1436	1738 1536

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 2022 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, 2023

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	463,000	300	8	13.64	16.54	61.10	48.22	125.87	212.16	338.04
Combine (300-349 hp)	325 hp	468,000	300	8	16.73	16.54	74.95	48.75	140.24	214.45	354.69
Combine (350-399 hp)	355 hp	500,000	300	8	18.27	16.54	81.84	52.08	150.47	229.12	379.59
Combine (400-449 hp)	425 hp	519,000	300	8	21.87	16.54	98.00	54.06	168.60	237.82	406.43
Combine (450-499hp)	475 hp	539,000	300	8	24.44	16.54	109.53	56.14	182.21	246.99	429.21
Tractor ( 20-39hp)CB	MFWD 30	34,200	600	8	1.54	16.54	6.91	1.06	24.52	7.27	31.80
Tractor ( 20-39hp)RB	MFWD 30	27,100	600	8	1.54	16.54	6.91	0.84	24.30	5.76	30.07
Tractor ( 40-59hp)CB	2WD 50	34,600	600	8	2.57	16.54	11.52	1.08	29.15	7.36	36.51
Tractor ( 40-59hp)CB	MFWD 50	47,000	600	8	2.57	16.54	11.52	1.46	29.53	10.00	39.54
Tractor ( 40-59hp)RB	2WD 50	24,500	600	8	2.57	16.54	11.52	0.76	28.83	5.21	34.04
Tractor ( 40-59hp)RB	MFWD 50	31,400	600	8	2.57	16.54	11.52	0.98	29.05	6.68	35.73
Tractor ( 60-89hp)CB	2WD 75	64,300	600	8	3.86	16.54	17.29	2.00	35.84	13.68	49.52
Tractor ( 60-89hp)CB	MFWD 75	72,000	600	8	3.86	16.54	17.29	2.25	36.08	15.32	51.40
Tractor ( 60-89hp)RB	2WD 75	54,100	600	8	3.86	16.54	17.29	1.69	35.52	11.51	47.03
Tractor ( 60-89hp)RB	MFWD 75	48,100	600	8	3.86	16.54	17.29	1.50	35.33	10.23	45.57
Tractor ( 90-119hp)CB	2WD 105	83,900	600	8	5.40	16.54	24.21	2.62	43.37	17.85	61.23
Tractor ( 90-119hp)CB	MFWD 105	104,000	600	8	5.40	16.54	24.21	3.25	44.00	22.13	66.13
Tractor ( 90-119hp)RB	2WD 105	73,400	600	8	5.40	16.54	24.21	2.29	43.04	15.62	58.66
Tractor ( 90-119hp)RB	MFWD 105	81,100	600	8	5.40	16.54	24.21	2.53	43.28	17.25	60.54
Tractor (120-139hp)CB	2WD 130	117,600	600	8	6.69	16.54	29.97	3.67	50.19	25.02	75.22
Tractor (120-139hp)CB	MFWD 130	133,300	600	8	6.69	16.54	29.97	4.16	50.68	28.36	79.05
Tractor (140-159hp)	2WD 150	131,200	600	8	7.72	16.54	34.58	4.10	55.22	27.92	83.15
Tractor (140-159hp)CB	MFWD 150	158,000	600	8	7.72	16.54	34.58	4.93	56.06	33.62	89.69
Tractor (160-179hp)CB	MFWD 170	186,000	600	8	8.75	16.54	39.20	5.81	61.55	41.10	102.65
Tractor (180-199hp)CB	MFWD 190	216,000	600	8	9.77	16.54	43.81	6.75	67.10	47.72	114.83
Tractor (200-249hp)CB	MFWD 225	276,000	600	8	11.58	16.54	51.88	8.62	77.04	60.98	138.03
Tractor (250-349hp)CB	4WD 300	377,000	600	8	15.44	16.54	69.17	11.78	97.50	83.30	180.80
Tractor (250-349hp)CB	MFWD 300	304,000	600	8	15.44	16.54	69.17	9.50	95.21	67.17	162.39
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	16.54	69.17	10.28	96.00	72.69	168.69
Tractor (350-449hp)	Track 400	547,000	600	8	20.58	16.54	92.23	17.09	125.87	120.87	246.74
Tractor (350-449hp)CB	4WD 400	428,000	600	8	20.58	16.54	92.23	13.37	122.15	94.57	216.72
Tractor (450-550hp)CB	4WD 500	426,000	600	8	25.73	16.54	115.29	13.31	145.14	94.13	239.28
Tractor (450-550hp)CB	Track 500	527,000	600	8	25.73	16.54	115.29	16.46	148.30	116.45	264.75
Utility Vehicle	800 CC	12,200	200	8	0.70	16.54	2.23	1.90	20.67	8.38	29.06
Utility Vehicle	900 CC	15,800	200	8	1.00	16.54	3.19	2.46	22.19	10.86	33.05

## 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, 2023

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	6.59	14.86	10.79	32.25	47.48	79.74
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.59	20.80	14.13	41.54	62.19	103.73
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.41	13.90	9.61	27.92	42.28	70.21
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	5.58	17.86	15.85	39.31	69.75	109.06
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.41	14.10	12.51	31.03	55.07	86.11
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.59	23.77	21.58	51.96	94.97	146.93
Cotton Picker/Module	6R-30 (500)	936,000	200	8	25.73	0.218	5.58	25.16	31.91	62.66	140.41	203.08
Cotton Picker/Module	6R-38 (500)	937,000	200	8	25.73	0.172	4.41	19.86	25.22	49.50	110.97	160.48
Dry Applicator SP	70'300cuft	469,000	350	8	16.98	0.015	0.31	1.14	0.37	1.84	2.78	4.63
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.37	0.71	0.20	1.28	1.49	2.78
Sprayer 600-825gal	80' 175hp	269,000	350	8	11.81	0.013	0.27	0.69	0.19	1.16	1.39	2.56
Sprayer 600-825gal	90' 250hp	316,000	350	8	12.73	0.011	0.24	0.67	0.19	1.11	1.45	2.57
Sprayer 800gal	100' 250hp	353,000	350	8	14.15	0.010	0.22	0.67	0.20	1.09	1.46	2.56
Sprayer 800gal	80' 250hp	292,000	350	8	12.86	0.013	0.27	0.76	0.20	1.24	1.51	2.76
Sprayer 1000-1400gal	90' 275hp	330,000	350	8	14.15	0.010	0.22	0.67	0.18	1.08	1.37	2.45
Sprayer 1000gal	100' 300hp	479,000	350	8	15.44	0.010	0.22	0.73	0.27	1.22	1.99	3.21
Sprayer 1200+gal	120' 300hp	489,000	350	8	15.44	0.008	0.18	0.60	0.23	1.02	1.69	2.71

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, 2023

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.37	10.60	2.05	1.76	17.79	4.10	12.46	34.35
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.66	8.34	1.61	1.38	14.01	3.23	9.81	27.05
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.77	5.57	1.47	0.92	9.76	2.95	6.55	19.27
Bed-Rip/Disk Fold.	8R-38	MFWD 190	69,600	300	20	0.073	1.20	3.20	0.25	0.49	5.15	1.46	3.48	10.10
Bed-Rip/Disk Fold.	12R-30	MFWD 225	98,700	300	20	0.061	1.01	3.19	0.30	0.53	5.05	1.74	3.75	10.55
Bed-Rip/Disk Fold.	12R-38	MFWD 225	98,700	300	20	0.046	0.76	2.39	0.22	0.39	3.78	1.31	2.81	7.91
Bed-Rip/Disk Rigid	4R-30	MFWD 190	30,900	300	20	0.184	3.05	8.09	0.28	1.24	12.69	1.64	8.82	23.15
Bed-Rip/Disk Rigid	4R-38	MFWD 190	30,900	300	20	0.146	2.42	6.42	0.22	0.99	10.07	1.30	7.00	18.37
Bed-Rip/Disk Rigid	6R-30	MFWD 190	42,800	300	20	0.123	2.03	5.40	0.26	0.83	8.53	1.51	5.88	15.93
Bed-Rip/Disk Rigid	6R-38	MFWD 190	42,800	300	20	0.097	1.60	4.26	0.20	0.65	6.73	1.19	4.64	12.57
Bed-Rip/Disk Rigid	8R-30	MFWD 190	56,700	300	20	0.139	2.29	6.09	0.39	0.93	9.72	2.26	6.63	18.62
Bed-Rip/Disk Rigid	8R-38	MFWD 190	56,700	300	20	0.073	1.20	3.20	0.20	0.49	5.11	1.19	3.48	9.78
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	37,000	150	12	0.107	1.77	5.57	1.43	0.92	9.72	2.87	6.55	19.15
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.33	4.19	1.43	0.69	7.66	2.87	4.92	15.46
Bed-Subsoil Fold	8R-38	MFWD 225	69,600	150	12	0.080	1.33	4.19	2.02	0.69	8.25	4.06	4.92	17.23
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	98,700	150	12	0.053	0.88	2.78	1.91	0.46	6.05	3.83	3.27	13.17
Bed-Subsoil Fold	12R-38	MFWD 225	98,700	150	12	0.053	0.88	2.78	1.91	0.46	6.05	3.83	3.27	13.17
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.37	10.60	1.92	1.76	17.66	3.85	12.46	33.98
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.66	8.34	1.61	1.38	14.01	3.23	9.81	27.05
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.25	7.06	1.78	1.17	12.28	3.57	8.30	24.16
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.77	5.57	1.46	0.92	9.74	2.92	6.55	19.23
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.68	5.30	1.78	0.88	9.66	3.57	6.23	19.47
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.33	4.19	1.46	0.69	7.68	2.92	4.92	15.53
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.44	5.10	0.57	0.72	8.85	1.73	4.96	15.55
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.63	3.86	0.58	0.57	6.66	1.76	4.05	12.48
Bed/Disk (Hipper)	8R-30	MFWD 190	30,700	160	10	0.093	1.55	4.10	0.71	0.63	7.01	2.15	4.47	13.64
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	76,700	160	10	0.049	0.81	2.16	0.94	0.33	4.25	2.83	2.35	9.44
Bed/Disk (Hipper)	12R-30	MFWD 225	59,900	160	10	0.062	1.03	3.24	0.93	0.53	5.75	2.80	3.81	12.36
Bed/Disk (Hipper)	12R-38	MFWD 225	76,700	160	10	0.049	0.81	2.55	0.94	0.42	4.74	2.83	3.00	10.59
Bed/Disk (Hipper)	16R40	MFWD 300	90,600	160	10	0.035	0.58	2.44	0.80	0.33	4.17	2.40	2.37	8.94
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	33,400	160	10	0.074	1.22	3.24	0.61	0.50	5.59	1.85	3.53	10.98
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	30,800	160	10	0.074	1.22	3.24	0.57	0.50	5.54	1.71	3.53	10.79
Bed/Disk w/roller	8R-30	MFWD 190	40,100	160	10	0.093	1.55	4.10	0.93	0.63	7.23	2.81	4.47	14.52
Bed/Disk w/roller	8R-38	MFWD 190	45,900	160	10	0.074	1.22	3.24	0.85	0.50	5.82	2.54	3.53	11.90
Bed/Disk w/roller	12R-30/40	MFWD 225	76,000	160	10	0.062	1.03	3.24	1.18	0.53	6.00	3.55	3.81	13.37
Bed/Lister	4R-38	MFWD 150	25,200	160	8	0.228	3.77	7.89	1.34	1.12	14.15	4.76	7.67	26.60
Bed/Lister	6R-38	MFWD 150	28,900	160	8	0.120	1.98	4.15	0.81	0.59	7.55	2.87	4.04	14.47
Bed/Lister	8R-30	MFWD 190	39,800	160	8	0.114	1.88	5.00	1.06	0.77	8.72	3.76	5.45	17.94
Bed/Lister	8R-38	MFWD 190	40,100	160	8	0.090	1.49	3.95	0.84	0.60	6.90	2.99	4.30	14.21
Bed/Lister	8R-38 2x1	MFWD 190	60,700	160	8	0.060	0.99	2.63	0.85	0.40	4.88	3.02	2.86	10.77
Bed/Lister	12R-38	MFWD 225	60,700	160	8	0.060	0.99	3.11	0.85	0.51	5.48	3.02	3.66	12.17
Bed/Lister	16R-30	MFWD 225	67,400	160	8	0.035	0.58	1.82	0.55	0.30	3.26	1.96	2.14	7.36
Bed/Lister	16R40	MFWD 300	80,800	160	8	0.043	0.71	2.98	0.81	0.40	4.91	2.88	2.89	10.69
Bed/Lister-Roll-Fo	8R-38	MFWD 190	29,200	160	10	0.095	1.58	4.20	0.70	0.64	7.13	2.09	4.57	13.81
Bed/Lister-Roll-Fo	12R-30	MFWD 225	56,400	160	10	0.080	1.33	4.19	1.14	0.69	7.37	3.41	4.93	15.72
Bed/Lister-Roll-Fo	12R-38	MFWD 225	37,600	160	10	0.063	1.05	3.31	0.60	0.55	5.51	1.79	3.89	11.21
Bed/Lister-Roll-Fo	16R-30	MFWD 225	39,500	160	10	0.060	1.00	3.14	0.59	0.52	5.27	1.79	3.69	10.76
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.58	4.20	0.59	0.64	7.03	1.79	4.57	13.40
Blade-Box	6'-7'	MFWD 105	2,070	200	20	0.020	0.33	0.48	0.01	0.05	0.88	0.01	0.34	1.24
Boll Buggy	4R-38(250)	MFWD 190	30,500	200	10	0.257	4.26	11.29	1.96	1.74	19.26	4.57	12.30	36.13
Boll Buggy	4R-38(350)	MFWD 190	30,500	200	10	0.257	4.26	11.29	1.96	1.74	19.26	4.57	12.30	36.13
Boll Buggy	4R2x1(350)	MFWD 190	30,500	200	10	0.172	2.85	7.54	1.31	1.16	12.87	3.05	8.22	24.15
Boll Buggy	6R-30(355)	MFWD 190	30,500	200	10	0.218	3.60	9.56	1.66	1.47	16.30	3.86	10.41	30.59
Boll Buggy	6R-38(355)	MFWD 190	30,500	200	10	0.172	2.85	7.54	1.31	1.16	12.87	3.05	8.22	24.15
Chisel Flow-Folding	24'	MFWD 190	48,500	150	12	0.076	1.26	3.34	1.33	0.51	6.46	2.67	3.64	12.79
Chisel Flow-Folding	32'	MFWD 225	65,000	150	12	0.057	0.95	2.99	1.35	0.49	5.80	2.71	3.52	12.04
Chisel Flow-Folding	42'	MFWD 225	71,900	150	12	0.044	0.72	2.28	1.14	0.37	4.53	2.28	2.68	9.50
Chisel Flow-Folding	50'	MFWD 225	99,100	150	12	0.036	0.61	1.91	1.32	0.31	4.17	2.64	2.25	9.07
Chisel Flow-Folding	61'	MFWD 225	114,800	150	12	0.030	0.50	1.57	1.25	0.26	3.59	2.51	1.84	7.95
Chisel Flow-Rigid	10'	MFWD 170	8,340	150	12	0.184	3.05	7.24	0.55	1.07	11.93	1.11	7.59	20.64
Chisel Flow-Rigid	15'	2WD 130	18,870	150	12	0.123	2.03	3.69	0.83	0.45	7.02	1.68	3.08	11.79
Chisel Flow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.69	5.32	0.49	0.88	8.41	0.99	6.26	15.66
Cultivate	4R-30	2WD 105	19,000	150	10	0.206	3.41	4.99	1.04	0.54	9.99	3.13	3.68	16.80
Cultivate	4R-38	2WD 105	19,000	150	10	0.162	2.68	3.93	0.82	0.37	7.81	2.46	2.53	12.81
Cultivate	6R-30	MFWD 150	25,200	150	10	0.137	2.27	4.75	0.92	0.67	8.63	2.76	4.62	16.02
Cultivate	6R-38	MFWD 150	26,300	150	10	0.108	1.79	3.75	0.76	0.53	6.84	2.28	3.65	12.77
Cultivate	8R-30	MFWD 190	32,600	150	10	0.103	1.70	4.51	0.89	0.69	7.81	2.68	4.92	15.42
Cultivate	8R-38	MFWD 190	35,800	150	10	0.073	1.21	3.22	0.70	0.49	5.64	2.10	3.51	11.26
Cultivate	8R-38 2x1	MFWD 190	50,700	150	10	0.054	0.89	2.37	0.73	0.36	4.37	2.19	2.59	9.16
Cultivate	12R-30	MFWD 225	50,800	150	10	0.068	1.13	3.56	0.93	0.59	6.22	2.79	4.19	13.21
Cultivate	12R-38	MFWD 225	50,700	150	10	0.054	0.89	2.81	0.73	0.46	4.91	2.19	3.31	10.42
Cultivate	16R-30	MFWD 225	78,900	150	10	0.051	0.85	2.67	1.08	0.44	5.05	3.25	3.14	11.45
Cultivate & Post	4R-30	2WD 105	24,700	150	10	0.220	4.63	5.32	1.44	0.50	11.91	4.34	3.43	19.69
Cultivate & Post	4R-38	2WD 105	24,700	150	10	0.173	3.64	4.19	1.14	0.39	9.38	3.42	2.70	15.50
Cultivate & Post	6R-30	MFWD 150	30,900	150	10	0.146	3.09	5.07	1.20	0.72	10.09	3.62	4.93	18.65
Cultivate & Post	6R-38	MFWD 150	32,000	150	10	0.115	2.43	4.00	0.98	0.57	8.00	2.96	3.89	14.85
Cultivate & Post	8R-30	MFWD 190	38,300	150	10	0.110	2.31	4.81	1.12	0.74	9.00	3.36	5.25	17.62
Cultivate & Post	8R-38	MFWD 190	41,500	150	10	0.086	1.83	3.81	0.96	0.58	7.19	2.88	4.15	14.22
Cultivate & Post	8R-38 2x1	MFWD 190	56,400	150	10	0.057	1.21	2.53	0.87	0.39	5.01	2.60	2.76	10.39

(continued)



Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Cultivate & Post	12R-30	MFWD 225	56,500	150	10	0.073	1.54	3.80	1.10	0.63	7.08	3.31	4.47	14.87
Cultivate & Post	12R-38	MFWD 225	56,400	150	10	0.057	1.21	3.00	0.87	0.49	5.59	2.60	3.53	11.73
Cultivate & Post	16R-30	MFWD 225	84,600	150	10	0.055	1.15	2.85	1.24	0.47	5.72	3.71	3.35	12.80
Disk & Incorporate	14'	2WD 130	45,200	200	10	0.149	3.15	4.48	2.02	0.55	10.21	4.05	3.74	18.02
Disk & Incorporate	20'	MFWD 190	89,300	200	10	0.092	1.94	4.05	2.47	0.62	9.09	4.94	4.41	18.45
Disk & Incorporate	24'	MFWD 190	71,300	200	10	0.087	1.83	3.82	1.86	0.58	8.12	3.73	4.16	16.01
Disk & Incorporate	28'	MFWD 225	80,400	200	10	0.074	1.57	3.88	1.80	0.64	7.90	3.60	4.56	16.08
Disk & Incorporate	32'	MFWD 225	87,300	200	10	0.065	1.37	3.39	1.71	0.56	7.05	3.42	3.99	14.47
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.32	4.20	1.53	0.51	8.57	3.68	3.51	15.77
Disk Harrow	20'	MFWD 190	83,600	180	10	0.098	1.62	4.30	2.28	0.66	8.87	5.46	4.68	19.02
Disk Harrow	24'	MFWD 190	65,600	180	10	0.081	1.35	3.58	1.49	0.55	6.98	3.57	3.90	14.46
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.16	3.63	1.45	0.60	6.86	3.49	4.27	14.62
Disk Harrow	32'	MFWD 225	81,500	180	10	0.061	1.01	3.18	1.38	0.52	6.11	3.33	3.74	13.19
Disk Harrow	42'	MFWD 225	134,800	180	10	0.046	0.77	2.42	1.75	0.40	5.35	4.19	2.85	12.40
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.32	4.22	0.90	0.23	5.88	2.15	1.61	9.65
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.41	5.04	1.59	0.72	9.78	3.83	4.90	18.51
Disk Heavy	20'	MFWD 190	83,600	180	10	0.097	1.60	4.26	2.25	0.65	8.78	5.41	4.64	18.85
Disk Heavy	28'	MFWD 225	74,700	180	10	0.075	1.25	3.92	1.57	0.65	7.40	3.76	4.61	15.78
Disk Ripper	15'	MFWD 225	50,800	180	10	0.136	2.25	7.06	1.92	1.17	12.41	4.60	8.30	25.33
Ditcher		2WD 130	8,760	200	10	0.020	0.33	0.59	0.07	0.07	1.07	0.10	0.50	1.67
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.15	0.28	0.03	0.03	0.50	0.04	0.23	0.78
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.25	5.34	2.61	0.76	11.99	3.34	5.20	20.53
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.75	5.13	2.20	0.76	10.86	2.82	5.38	19.06
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.17	4.05	1.74	0.60	8.57	2.22	4.24	15.05
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.06	4.30	1.72	0.66	8.75	2.19	4.68	15.64
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.63	3.40	1.52	0.52	7.08	1.94	3.70	12.74
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.08	2.26	1.13	0.34	4.83	1.44	2.46	8.75
Fert Appl (Liquid)	12R-30	MFWD 225	30,600	150	8	0.078	1.65	4.07	1.60	0.67	8.01	2.04	4.79	14.85
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.08	2.68	1.07	0.44	5.28	1.36	3.15	9.80
Field Cult & Inc	42'	MFWD 225	82,900	100	10	0.037	0.79	1.95	0.78	0.32	3.86	3.75	2.30	9.92
Field Cult & Inc	50'	MFWD 225	92,500	100	10	0.031	0.66	1.64	0.73	0.27	3.32	3.51	1.93	8.77
Field Cult & Inc Fld	24'	MFWD 170	43,700	100	10	0.066	1.39	2.59	0.72	0.38	5.09	3.46	2.71	11.27
Field Cult & Inc Fld	32'	MFWD 190	64,800	100	10	0.049	1.04	2.17	0.80	0.33	4.35	3.85	2.36	10.57
Field Cult & Inc Rdg	12'	2WD 150	22,800	100	10	0.132	2.78	4.57	0.75	0.54	8.65	3.61	3.69	15.96
Field Cultivate Fld	24'	MFWD 170	38,000	100	10	0.062	1.02	2.43	0.59	0.36	4.42	2.83	2.55	9.81
Field Cultivate Fld	32'	MFWD 190	59,100	100	10	0.046	0.77	2.04	0.68	0.31	3.82	3.30	2.22	9.35
Field Cultivate Fld	42'	MFWD 225	73,200	100	10	0.035	0.58	1.84	0.65	0.30	3.38	3.12	2.16	8.67
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.49	1.54	0.61	0.25	2.91	2.96	1.82	7.70
Field Cultivate Rdg	12'	2WD 150	17,100	100	10	0.124	2.05	4.30	0.53	0.51	7.40	2.55	3.47	13.42
Grain Cart Corn	500 bu	MFWD 190	34,100	200	12	0.025	0.41	1.10	0.23	0.17	1.93	0.46	1.20	3.60
Grain Cart Corn	700 bu	MFWD 190	51,600	200	12	0.025	0.41	1.10	0.35	0.17	2.05	0.70	1.20	3.96
Grain Cart Corn	1000 bu	MFWD 225	63,600	200	12	0.025	0.41	1.31	0.43	0.21	2.38	0.87	1.54	4.79
Grain Cart Rice	500 bu	MFWD 190	34,100	200	12	0.062	1.03	2.73	0.57	0.42	4.77	1.15	2.98	8.90
Grain Cart Rice	700 bu	MFWD 190	51,600	200	12	0.055	0.90	2.40	0.76	0.37	4.45	1.53	2.62	8.62
Grain Cart Rice	1000 bu	MFWD 190	63,600	200	12	0.045	0.75	2.00	0.78	0.30	3.86	1.57	2.18	7.63
Grain Cart Soybean	500 bu	MFWD 190	34,100	200	12	0.025	0.42	1.11	0.23	0.17	1.94	0.47	1.21	3.63
Grain Cart Soybean	700 bu	MFWD 190	51,600	200	12	0.021	0.35	0.93	0.29	0.14	1.72	0.59	1.01	3.33
Grain Cart Soybean	1000 bu	MFWD 190	63,600	200	12	0.021	0.35	0.93	0.36	0.14	1.79	0.73	1.01	3.53
Grain Cart Wht/Sor	500 bu	MFWD 190	34,100	200	12	0.025	0.42	1.11	0.23	0.17	1.94	0.47	1.21	3.63
Grain Cart Wht/Sor	700 bu	MFWD 190	51,600	200	12	0.021	0.35	0.93	0.29	0.14	1.72	0.59	1.01	3.33
Grain Cart Wht/Sor	1000 bu	MFWD 190	63,600	200	12	0.021	0.35	0.93	0.36	0.14	1.79	0.73	1.01	3.53
Grain Drill	10'	2WD 130	33,800	150	8	0.188	4.82	5.65	2.39	0.69	13.56	5.21	4.71	23.50
Grain Drill	12'	2WD 130	40,700	150	8	0.157	4.02	4.71	2.39	0.57	11.70	5.23	3.93	20.87
Grain Drill	15'	MFWD 150	38,900	150	8	0.125	3.21	4.34	1.83	0.62	10.02	4.00	4.22	18.25
Grain Drill	20'	MFWD 170	45,400	150	8	0.094	2.41	3.69	1.60	0.54	8.26	3.50	3.87	15.64
Grain Drill	24'	MFWD 190	68,900	150	8	0.078	2.01	3.44	2.03	0.53	8.01	4.43	3.75	16.19
Grain Drill	30'	MFWD 225	82,500	150	8	0.062	1.60	3.26	1.94	0.54	7.35	4.24	3.83	15.43
Grain Drill	35'	MFWD 225	100,200	150	8	0.053	1.37	2.79	2.02	0.46	6.66	4.41	3.28	14.36
Grain Drill & Pre	10'	2WD 130	39,100	150	8	0.203	5.19	6.08	2.97	0.74	15.01	6.50	5.08	26.59
Grain Drill & Pre	12'	2WD 130	46,100	150	8	0.169	4.33	5.07	2.92	0.62	12.95	6.38	4.23	23.57
Grain Drill & Pre	15'	MFWD 150	44,200	150	8	0.135	3.46	4.68	2.24	0.66	11.06	4.89	4.55	20.51
Grain Drill & Pre	20'	MFWD 170	50,800	150	8	0.101	2.59	3.98	1.93	0.59	9.10	4.22	4.17	17.50
Grain Drill & Pre	24'	MFWD 190	74,200	150	8	0.084	2.16	3.70	2.35	0.57	8.79	5.14	4.03	17.97
Grain Drill & Pre	30'	MFWD 225	87,800	150	8	0.067	1.73	3.51	2.22	0.58	8.05	4.86	4.12	17.05
Grain Drill & Pre	35'	MFWD 225	110,400	150	8	0.058	1.48	3.01	2.40	0.50	7.39	5.24	3.53	16.18
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.60	3.26	1.34	0.54	6.75	2.93	3.83	13.52
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.07	2.83	0.31	0.43	4.65	0.53	3.08	8.27
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.85	2.26	0.27	0.34	3.75	0.47	2.47	6.69
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.64	1.70	0.28	0.26	2.89	0.49	1.85	5.24
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.53	1.67	0.29	0.27	2.78	0.50	1.97	5.26
Header - Corn	6R-30	265 hp	64,800	300	8	0.170	2.81	10.40	2.75	8.21	24.19	4.69	36.12	65.01
Header - Corn	6R-38	265 hp	64,900	300	8	0.134	2.22	8.21	2.18	6.48	19.10	3.71	28.52	51.33
Header - Corn	8R-30	265 hp	87,400	300	8	0.127	2.11	7.80	2.79	6.15	18.86	4.75	27.09	50.71
Header - Corn	8R-38	325 hp	80,000	300	8	0.100	1.66	7.56	2.01	4.92	16.17	3.43	21.65	41.26
Header - Corn	12R-20	325 hp	129,500	300	8	0.127	2.11	9.57	4.13	6.22	22.04	7.03	27.38	56.47
Header - Corn	12R-30	325 hp	125,000	300	8	0.085	1.40	6.38	2.66	4.15	14.60	4.52	18.25	37.38
Header - Draper (CL)	25' Rigid	265 hp	77,900	300	8	0.203	3.35	12.40	3.62	9.79	29.18	6.47	43.08	78.75
Header - Draper (CL)	30' Rigid	325 hp	81,600	300	8	0.169	2.79	12.68	3.16	8.24	26.89	5.65	36.29	68.84

(continued)





Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Rotary Cutter	7'	MFWD 130	0	185	10	0.168	2.78	5.04	0.00	0.70	8.53	0.00	4.77	13.30
Rotary Cutter	12'	2WD 150	20,200	185	10	0.098	1.62	3.39	1.60	0.40	7.03	1.28	2.74	11.06
Rotary Cutter-Flex	15'	MFWD 150	28,700	185	10	0.078	1.29	2.71	1.82	0.38	6.23	1.46	2.64	10.33
Rotary Cutter-Flex	20'	MFWD 150	41,400	185	10	0.058	0.97	2.03	1.97	0.29	5.28	1.58	1.98	8.84
Row Cond & Inc-Fold.	26'	MFWD 190	37,600	100	10	0.063	1.33	2.78	0.59	0.42	5.14	2.86	3.02	11.03
Row Cond & Inc-Fold.	38'	MFWD 225	49,800	100	10	0.043	0.91	2.25	0.54	0.37	4.08	2.59	2.64	9.32
Row Cond & Inc-Rigid	13'	2WD 130	18,700	100	10	0.126	2.67	3.80	0.59	0.46	7.53	2.84	3.17	13.56
Row Cond & Inc-Rigid	21'	2WD 170	26,900	100	10	0.078	1.65	3.08	0.52	0.29	5.55	2.53	2.06	10.15
Row Cond & Inc-Rigid	26'	MFWD 190	29,300	100	10	0.026	0.56	1.16	0.19	0.17	2.10	0.93	1.27	4.30
Row Cond Folding	26'	MFWD 225	31,900	100	10	0.059	0.98	3.09	0.47	0.51	5.07	2.28	3.64	11.00
Row Cond Folding	38'	MFWD 225	40,100	100	10	0.040	0.67	2.12	0.40	0.35	3.55	1.96	2.49	8.01
Row Cond Rigid	13'	2WD 130	12,900	100	10	0.119	1.97	3.58	0.38	0.43	6.38	1.84	2.98	11.21
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.22	2.89	0.39	0.27	4.78	1.87	1.94	8.61
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	0.98	2.61	0.35	0.40	4.36	1.69	2.85	8.90
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.03	2.73	1.07	0.42	5.27	3.23	2.98	11.48
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.19	3.15	0.68	0.48	5.52	2.05	3.44	11.02
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.77	2.43	0.66	0.40	4.28	2.00	2.85	9.14
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.47	3.91	0.85	0.60	6.84	2.56	4.26	13.68
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.19	3.15	0.76	0.48	5.60	2.28	3.44	11.33
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.07	1.84	0.34	0.28	3.54	0.77	2.00	6.33
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	5.48	0.58	0.08	0.49	6.65	0.11	2.18	8.95
Spray (ATV)	20'	800 CC	1,440	200	8	0.084	1.78	0.18	0.05	0.16	2.19	0.07	0.70	2.97
Spray (Band)	27' Fold	MFWD 170	5,700	200	8	0.062	1.32	2.45	0.16	0.36	4.30	0.22	2.57	7.11
Spray (Band)	40' Fold	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Band)	50' Fold	MFWD 170	9,590	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Band)	60' Fold	MFWD 170	16,700	200	8	0.028	0.59	1.10	0.22	0.16	2.08	0.30	1.15	3.54
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,700	200	8	0.130	2.74	4.50	0.53	0.64	8.41	0.72	4.37	13.51
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,200	200	8	0.084	1.78	2.92	0.40	0.41	5.53	0.55	2.84	8.92
Spray (Bcast/HB)	27' Fold	MFWD 170	14,700	200	8	0.062	1.32	2.45	0.43	0.36	4.57	0.58	2.57	7.73
Spray (Bcast/HB)	27' Rigid	MFWD 170	14,800	200	8	0.062	1.32	2.45	0.43	0.36	4.57	0.59	2.57	7.74
Spray (Bcast/HB)	30' Fold	MFWD 170	19,900	200	8	0.056	1.18	2.21	0.52	0.32	4.25	0.71	2.31	7.28
Spray (Bcast/HB)	40' Fold	MFWD 170	21,500	200	8	0.042	0.89	1.65	0.42	0.24	3.22	0.58	1.73	5.54
Spray (Broadcast)	27'	MFWD 170	5,720	200	8	0.062	1.32	2.45	0.16	0.36	4.31	0.22	2.57	7.11
Spray (Broadcast)	40'	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Broadcast)	50'	MFWD 170	9,600	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Broadcast)	60'	MFWD 170	16,700	200	8	0.028	0.59	1.10	0.22	0.16	2.08	0.30	1.15	3.54
Spray (Direct/Hood)	8R-30	MFWD 170	20,700	200	8	0.084	1.78	3.31	0.82	0.49	6.41	1.11	3.47	11.00
Spray (Direct/Hood)	8R-38	MFWD 170	21,500	200	8	0.066	1.40	2.62	0.67	0.38	5.09	0.91	2.74	8.76
Spray (Direct/Hood)	12R-30	MFWD 170	28,200	200	8	0.056	1.18	2.21	0.74	0.32	4.47	1.01	2.31	7.80
Spray (Direct/Hood)	12R-38	MFWD 170	28,600	200	8	0.044	0.93	1.74	0.59	0.25	3.53	0.81	1.83	6.18
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.78	3.31	0.77	0.49	6.36	1.05	3.47	10.89
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.40	2.62	0.61	0.38	5.03	0.83	2.74	8.61
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	0.93	1.74	0.61	0.25	3.55	0.83	1.83	6.22
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.18	2.21	0.78	0.32	4.50	1.06	2.31	7.88
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	0.93	1.74	0.61	0.25	3.55	0.83	1.83	6.22
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.32	3.25	1.01	0.54	6.12	1.38	3.82	11.33
Spray (Levee Leaper)	50'	MFWD 225	16,900	200	8	0.033	0.71	1.75	0.26	0.29	3.02	0.36	2.06	5.45
Spray (Pull Type)	60'	MFWD 225	62,600	200	8	0.028	0.59	1.46	0.82	0.24	3.12	1.12	1.72	5.97
Spray (Pull Type)	80'	MFWD 225	61,500	200	8	0.021	0.44	1.09	0.60	0.18	2.33	0.83	1.28	4.45
Spray (Pull Type)	90'	MFWD 225	62,400	200	8	0.018	0.39	0.97	0.54	0.16	2.08	0.74	1.14	3.97
Spray (Pull Type)	120'	MFWD 225	106,200	200	8	0.014	0.29	0.73	0.70	0.12	1.85	0.95	0.85	3.66
Spray (Ropewick)	20'	MFWD 190	4,110	200	8	0.084	1.78	3.70	0.16	0.57	6.22	0.22	4.03	10.48
Spray (Spot)	27'	MFWD 170	5,720	200	8	0.062	1.32	2.45	0.16	0.36	4.31	0.22	2.57	7.11
Spray (Spot)	40'	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Spot)	50'	MFWD 170	9,600	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Spot)	60'	MFWD 225	16,700	200	8	0.028	0.59	1.46	0.22	0.24	2.52	0.30	1.72	4.54
Stalk Shredder	14'	MFWD 150	36,300	200	10	0.117	1.94	4.07	3.74	0.58	10.35	2.56	3.96	16.87
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.36	2.85	2.38	0.40	7.01	1.63	2.77	11.42
Stalk Shredder-Flail	12'	MFWD 150	26,200	200	10	0.137	2.27	4.75	3.15	0.67	10.86	2.15	4.62	17.64
Stalk Shredder-Flail	15'	MFWD 150	31,000	200	10	0.110	1.81	3.80	2.98	0.54	9.15	2.04	3.69	14.89
Stalk Shredder-Flail	18'	MFWD 150	47,300	200	10	0.091	1.51	3.17	3.79	0.45	8.93	2.59	3.08	14.61
Stalk Shredder-Flail	20'	MFWD 150	40,200	200	10	0.082	1.36	2.85	2.90	0.40	7.52	1.98	2.77	12.28
Stalk Shredder-Flail	25'	MFWD 150	66,400	200	10	0.066	1.09	2.28	3.83	0.32	7.53	2.62	2.21	12.38
Strip Till	8R-38	MFWD 225	58,200	150	10	0.061	1.01	3.19	1.55	0.53	6.30	2.86	3.75	12.92
Strip Till	12R-30	MFWD 225	98,900	150	10	0.061	1.01	3.19	2.64	0.53	7.38	4.87	3.75	16.01
Strip Till	12R-40	MFWD 225	99,800	150	10	0.046	0.76	2.39	1.99	0.39	5.56	3.68	2.81	12.06
Subsoiler	3 shank	MFWD 190	5,400	100	15	0.204	3.37	8.95	0.36	1.37	14.07	1.07	9.75	24.90
Subsoiler	4 shank	MFWD 225	12,200	100	15	0.153	2.54	7.97	0.62	1.32	12.46	1.81	9.36	23.65
Subsoiler	5 shank	MFWD 225	17,100	100	15	0.122	2.02	6.34	0.69	1.05	10.12	2.03	7.46	19.61
Subsoiler low-till	6 shank	MFWD 225	16,400	100	15	0.102	1.68	5.30	0.55	0.88	8.43	1.62	6.23	16.28
Subsoiler low-till	8 shank	MFWD 225	24,300	100	15	0.076	1.26	3.97	0.61	0.66	6.51	1.80	4.66	12.98

## 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, 2023

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Artisan		
Agri-Dex	pt	5.28	Avaris	oz	0.23
AMS SuperMax	pt	3.81	Avicta 500 Soybean	oz	1.68
Class Act NG	pt	4.75	Bravo Weather Stick	pt	2.14
Crop Oil Conc. (Pet.)	pt	2.86	Bravo Weather Stick	pt	6.32
Crop Oil Conc. (Veg.)	pt	2.90	Captan 50 WP	lb	6.13
Dyne-A-Pak	pt	6.01	Convoy	oz	1.13
Fire-Zone	pt	2.42	Cotton Seed Trt.	acre	20.00
Herbimax	pt	2.75	CruiserMaxx Vibrance	oz	7.63
Induce	pt	5.00	Elatus	oz	3.81
MSO	pt	1.34	Flint Extra	oz	9.41
Penetrator Plus	pt	2.32	Headline EC	oz	4.46
Surfactant	pt	3.30	Miravis Top	oz	5.31
CLEANING			Prior Xemium	oz	2.17
Cleaning Peanuts	ton	18.00	Propimax EC	pt	12.50
CROP CONSULTANT			Prosaro	oz	1.78
Corn Consultant	acre	6.00	Provost Optimum	oz	2.17
Cotton Consultant	acre	8.00	Provost Silver	oz	1.41
Peanut Consultant	acre	9.25	Quadris	oz	6.73
Rice Consultant	acre	8.00	Quadris Top	oz	3.05
Sorghum Consultant	acre	6.00	Quadris Top SBX	oz	3.35
Soybeans Consultant	acre	6.50	Quilt	pt	18.23
Wheat Consultant	acre	5.50	Quilt XCEL	pt	25.08
CUSTOM FERTILIZE			Stratego	pt	23.93
App Fert by Air	cwt	8.00	Stratego YLD	oz	4.02
App Fert by Air (Mi)	appl	8.00	Tilt 3.6 EC	oz	1.00
Custom Apply Fert	acre	7.50	Tilt/ Bravo SE	oz	0.72
CUSTOM LIME			Trivapro	oz	1.43
Lime (Spread)	ton	58.00	GINNING		
CUSTOM PLANT			Gin & Haul	lb	0.11
Custom Plant	acre	7.50	GROWTH REGULATORS		
Custom Plant Air	cwt	8.00	Mepex	oz	0.09
CUSTOM SPRAY			Mepichlor 4.2%	oz	0.04
App by Air ( 3 gal)	appl	6.40	Mepiquat	oz	0.22
App by Air ( 5 gal)	appl	7.60	Mepstar 6	oz	0.09
App by Air (10 gal)	appl	9.70	Palisade	oz	1.41
Custom Spray Ground	acre	7.00	Pentia	oz	0.41
DRYING			Pix WSB	oz	1.26
Dry Corn	bu	0.19	Stance	oz	1.40
Dry Grain Sorghum	cwt	0.25	Veto	oz	0.06
Dry Peanuts	ton	24.00	HARVEST AIDS		
Dry Rice	bu	0.40	Adios	oz	0.96
ERADICATION FEE			Boll Buster	oz	0.34
Eradication	acre	1.00	Def/Folex	pt	12.50
FERTILIZERS			Defol 5	gal	8.61
Agrotain Ultra	pt	20.99	Display	oz	10.59
Amm Sulfate (21% N)	cwt	50.00	Ethephon 6E	pt	3.56
Boron Plus	pt	4.31	Finish 6	pt	10.93
DAP	cwt	55.40	Folex 6EC	pt	12.50
Fert 10-34-0	cwt	45.99	Freefall SC	oz	1.52
Fert 10-34-0	gal	5.36	Ginstar EC	pt	29.72
Fert 11-37-0	cwt	50.15	Gramoxone SL	oz	0.37
Fert 41-0-0-4	cwt	37.06	Sharpen	oz	6.72
Lime	ton	48.00	Sodium Chlorate 5L	gal	8.61
NBPT	pt	18.00	SuperBoll	oz	0.32
Phosphorus (46% P2O5)	cwt	50.00	Thidiazuron 4lb	oz	1.52
Potash (60% K2O)	cwt	46.60	Tribufos 6lb	pt	12.50
Sulfur Plus	pt	2.62	Vacate	oz	1.39
UAN (32% N)	cwt	38.90	HAULING		
UAN (32%)	gal	4.30	Haul Corn	bu	0.23
UAN + Sulfur (28%)	cwt	39.65	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	gal	4.41	Haul Rice	bu	0.35
Urea, Solid (46% N)	cwt	41.58	Haul Sorghum	bu	0.25
Zinc Plus	pt	3.68	Haul Soybeans	bu	0.27
FUNGICIDES			Haul Wheat	bu	0.26
Abound	oz	1.88	HERBICIDES		
Alfa Guard	lb	1.41	2,4-D Amine 4	pt	3.33
Allegiance Flowable	oz	3.66	2,4-D Ester	pt	5.03
Ameristar Top	oz	2.41	AAtrex 4L	pt	2.62
Approach Prima	pt	33.33	Accent Q	oz	20.47
Apron Maxx RTA	oz	1.00	Acuron	oz	0.54

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2023 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		Dollars			dollars
Aim	oz	4.90	Harmony Extra SG	oz	10.34
Anthem Flex	oz	5.57	Helmet	oz	0.48
Anthem Maxx	oz	5.26	Huskie	oz	0.96
Armezon Pro	oz	1.03	Impact	oz	13.44
Atrazine 4L	pt	3.00	Intimidator	oz	0.64
Atrazine 90DF	lb	4.50	Leadoff	oz	6.79
Authority First	lb	40.00	League	oz	4.19
Authority Elite	pt	11.92	Lexar	pt	6.76
Authority Maxx	lb	68.82	Liberty 280	oz	0.76
Authority MTZ	lb	19.75	Loyant	oz	2.29
Avatar	pt	9.62	Makaze	oz	0.21
Avenger	pt	15.00	Metolachlor	pt	7.89
Axial XL	oz	1.71	Metribuzin 4L	pt	21.13
Axiom	oz	2.10	Metribuzin 75	lb	14.80
Banvel	pt	4.81	MSMA	pt	6.35
Barrage	pt	4.13	Newpath	oz	4.15
Basagran	pt	5.43	Obey	oz	1.08
Boundary	pt	11.75	Osprey	oz	3.58
Brake	oz	1.48	Outlook	pt	14.77
Broadaxe	pt	14.17	Panther Pro	oz	6.61
Broadhead	lb	58.21	Parallel	pt	8.32
Bucaneer Plus	pt	9.81	Paraquat	oz	0.23
Buctril	pt	4.28	Parazone 3SL	oz	0.18
Butyrac 200 (2,4-DB)	pt	4.06	Permit	oz	20.07
Cadre	oz	1.97	Permit Plus	oz	22.22
Canopy	oz	3.25	PowerFlex	oz	7.21
Caparol	pt	4.97	Preface	oz	4.99
Capreno	oz	4.49	Prefix	pt	5.26
Cinch	pt	14.18	Provisia	oz	0.82
Cinch ATZ	pt	6.26	Prowl 3.3 EC	pt	6.63
Clarity	pt	14.30	Quelex	oz	11.30
Classic	oz	18.50	RealmQ	oz	4.32
Clearpath	oz	4.24	RebelEx	oz	2.00
Clethodim 2E	oz	0.53	Reflex	pt	7.34
Clincher SF	oz	1.95	Regiment	oz	45.96
Cobra	oz	1.22	Resicore	oz	0.60
Command 3ME	pt	18.00	Resource	oz	2.03
Corvus	oz	5.30	RiceBeaux	pt	6.25
Cotoran	pt	6.37	Riceshot	pt	4.68
Cotton Pro	pt	3.45	Ricestar HT	pt	26.01
Dicamba	pt	5.88	Ringside	pt	5.63
Direx	pt	5.25	Roundup Power Max	oz	0.46
Diuron	pt	3.47	Roundup PowerMax	pt	7.33
Dual II Magnum	pt	11.60	Roundup PowerMax ii	oz	0.27
Dual Magnum	pt	11.45	Roundup Pro	pt	0.20
Duet	pt	6.09	Scepter 70 DG	oz	4.64
Engenia	oz	0.83	Select Max	pt	13.86
Enlist Duo	pt	8.60	Sencor/Tricor.Metrib	lb	17.78
Enlist One	pt	6.77	Sequence	pt	7.14
Envive	oz	3.78	Sharpen	oz	6.72
Envoke	oz	88.33	Sinister	pt	13.77
Facet L	pt	17.50	Sonic	oz	4.50
Fierce	oz	7.75	Stalwart	pt	3.82
Fierce XLT	oz	4.47	Stam 80 EDF	lb	9.45
Finesse	oz	18.64	Stam M4	qt	8.00
Firestorm	pt	3.44	Staple LX	oz	3.95
First Rate	oz	37.79	Storm	pt	12.65
Flexstar	pt	9.90	Strada	oz	7.34
Flexstar GT	pt	6.77	Strada Pro	oz	8.20
Fusilade DX	oz	1.19	Strada XT2	oz	3.26
Gambit	oz	16.50	Superwham	qt	9.82
Glyphosate 3lbs a.e	pt	5.38	Suprend	lb	13.52
Glyphosate 3lbs a.e	oz	0.34	SureStart II	oz	0.39
Goal 2XL	pt	8.75	Surveil	oz	6.70
Gramoxone SL 2.0	oz	0.37	Synchrony XP	oz	13.00
Grandstand R	pt	18.68	Tempest	pt	19.50
Grasp	oz	3.17	Touchdown Total	qt	10.21
Grasp Xtra	oz	1.61	Treflan	pt	4.36
Halex GT	pt	10.50			(continued)
Halomax	oz	21.11			

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2023 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	4.36	Mustang Max	oz	1.17
Triflurex	pt	3.47	Nuprid 4F	oz	1.04
Ultra Blazer	pt	7.50	Oberon	oz	3.10
Valor EZ	oz	5.23	Orthene 97	lb	11.66
Valor SX	oz	3.20	Permethrin	oz	0.47
Valor XLT	oz	3.64	Portal XLO	oz	0.74
Vamos	pt	6.49	Pounce 25WP	lb	19.96
Verdict	oz	1.53	Prevathon	oz	1.16
Veritas	pt	7.49	Python WDG	oz	20.19
Villain	pt	5.24	Radiant	oz	5.77
Volunteer	pt	10.63	Sevin 4F	pt	8.55
Warrant	pt	4.84	Sevin XLR Plus	qt	17.53
XtendiMax	oz	0.44	Sivanto Prime	oz	3.36
Zidua SC	oz	6.20	Tempest	oz	1.70
Zidua WG	oz	8.76	Tenchu SG	oz	1.13
INOCULANT			Transform WG	oz	8.82
Inoculant -Soybean	acre	1.55	Up-Cyde	oz	0.49
Optimize LIFT	oz	0.15	Warrior ZT	oz	3.13
INSECTICIDES			Zeal	oz	20.93
Abamectin .15EC	oz	0.30	IRRIGATION SUPPLIES		
Acephate 90%	lb	9.30	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	6.62	SEED/PLANTS		
Admire Pro	oz	1.76	Corn Seed BtRR	thous	3.75
Agri-Mek	oz	3.13	Corn Seed Conv.	thous	2.36
Asana .66 XL	oz	0.58	Corn Seed Op Leptra	thous	3.66
Avenger	oz	0.28	Corn Seed RR2	thous	2.93
Baythroid XL	oz	1.32	Corn Seed VT2P	thous	2.62
Belt	oz	6.80	Cot. Seed B3XF/W3FE	thous	2.34
Besiege	oz	2.75	Cotton Seed B3XF	thous	2.35
Bidrin 8EC	oz	1.43	Cotton Seed GLB2	thous	1.59
Bifenthrin	oz	1.13	Cotton Seed W3FE	thous	2.32
Bifenture 2EC	oz	0.47	Cotton Seed W3RF	thous	1.31
Brigade EC	pt	20.27	Peanut Seed	lb	0.84
Capture LFR	oz	1.37	Rice Conv Hyb Trt	lb	6.31
Centric 40WG	oz	5.95	Rice Fullpage Hyb Tr	lb	7.68
Cypermethrin	oz	1.31	Rice Seed CF(Levees)	lb	1.14
Declare	oz	2.03	Rice Seed Clearfield	lb	1.14
Diamond .83EC	oz	2.23	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	6.45	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	1.63	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	2.10	Rice Seed FPH(Levee)	lb	7.68
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.30
Hero	oz	1.35	Rice Seed Trt/Insect	lbseed	0.29
Imidacloprid 4F	oz	1.06	Sorghum Concept	lb	2.42
Imidan 70 WSB	oz	0.86	Sorghum Concept+ Po	lb	3.51
IncidentalPestTrt\$8	acre	8.00	Soybean Enlist E3	lb	1.20
IncidentalPestTrt\$15	acre	15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$22	acre	22.00	Soybean Seed RR2	lb	1.16
IncidentalPestTrt\$30	acre	30.00	Soybean Seed RR2X	lb	1.34
Intrepid 2F	oz	2.06	Wheat Seed Private	lb	0.38
Intruder 70WSP	oz	1.13	SOIL TEST		
Lambda	oz	2.08	Soil Test	acre	10.00
Lannate LV	pt	8.33	SURVEY & MARK LEVEES		
Macho	oz	1.28	Survey & Mark Levees	acre	4.50
Malathion 8E	pt	9.84	Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2023

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	4.48
Gasoline	gal	3.19
INTEREST RATES		
Short-term	%	6.40
Intermediate-term	%	6.90

Appendix Table 6. Labor types, wage rates and unallocated labor  
Multipliers for crop enterprises, Mississippi, 2023

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	16.54
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, 2023

Crop	unit	Futures Contract Month	Futures Contract Price <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>c</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
Corn	bu	Dec '23	6.20	-0.05	6.15	2.35	6.15
Cotton Lint	lb	Dec '23	0.75	-0.011	0.7389	0.52	0.7389
Cottonseed	lb						0.11 <sup>f</sup>
Grain Sorghum	bu				5.84	4.09	5.84
Peanuts	ton				575.00	354.89	575.00
Soybeans	bu	Nov '23	13.54	0.12	13.66	6.41	13.66
Rice	bu	Nov '23	6.93	-0.18	6.75	3.21	6.75
Wheat	bu	Jul '23	9.03	-0.13	8.90	3.60	8.90

<sup>a</sup> Average of the daily closing futures contract prices during the first 5 trading days in October 2022 for the stated contract months.

<sup>b</sup> Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2013 to 2022 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

<sup>d</sup> Average Mississippi County CCC Loan Rate for 2022 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2022 Farm-stored Loan Rate for long grain rough rice. National 2022 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

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

<sup>f</sup> Cottonseed price is the average marketing year price over the years 2008-2021.

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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Land Plane	50'x16'		1.66	0.36	0.63		0.17	2.82	2.11	4.93
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.37	0.08	0.16		0.02	0.63	0.44	1.07
Roll-Out Pipe	ft	7.92					0.21	8.13		8.13
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.49	0.12	0.44		0.03	1.08	1.10	2.18
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.74	0.18	0.65		0.02	1.59	1.65	3.24
Land Forming (\$450)	each								38.27	38.27
Well & Pump, Furrow	each			2.96			0.08	3.04	10.47	13.51
Main Line Pipe	each								5.79	5.79
Engine, RPF, PNUT	each								10.48	10.48
1st July Irrigation	ac-in		10.95	1.05			0.26	12.26		12.26
1st Aug Irrigation	ac-in		10.95	1.05			0.19	12.19		12.19
2nd Aug Irrigation	ac-in		10.95	1.05			0.19	12.19		12.19
1st Sep Irrigation	ac-in		10.95	1.05			0.13	12.13		12.13
TOTALS		7.92	47.06	7.90	4.84	0.00	1.36	69.08	70.31	139.39

Note: Cost of production estimates are based on 2022 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 2022 Planning Budgets." Budget Report No. 2021-03, Department of Agricultural Economics, Mississippi State University, November 2021.
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 2022 Planning Budgets." Budget Report No. 2021-01, Department of Agricultural Economics, Mississippi State University, November 2021.
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 2023 Planning Budgets." Budget Report No. 2022-08, Department of Agricultural Economics, Mississippi State University, April 2022.
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 2022 Planning Budgets." Budget Report No. 2021-07, Department of Agricultural Economics, Mississippi State University, November 2021.
16. "Rice 2022 Planning Budgets." Budget Report No. 2021-04, Department of Agricultural Economics, Mississippi State University, November 2021.
17. "Soybeans 2022 Planning Budgets." Budget Report No. 2021-02, Department of Agricultural Economics, Mississippi State University, November 2021.
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.







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