

**PEANUTS
2024
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2023-07**

November 2023

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 2024 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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2024 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 2023. (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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.24	1.0000	11.24	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____
TOTAL DIRECT EXPENSES				611.16	_____
FIXED EXPENSES					
Implements	acre	57.26	1.0000	57.26	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
TOTAL FIXED EXPENSES				160.13	_____
TOTAL SPECIFIED EXPENSES				771.29	_____

Note: Cost of production estimates are based on 2023 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	24.49	1.0000	24.49	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____

TOTAL DIRECT EXPENSES				611.16	_____
RETURNS ABOVE DIRECT EXPENSES				598.84	_____
TOTAL FIXED EXPENSES				160.13	_____

TOTAL SPECIFIED EXPENSES				771.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				438.71	_____

Note: Cost of production estimates are based on 2023 input prices.

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

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

Table 1.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

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
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
TOTALS							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.D Estimated costs for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

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						0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12						0.66	16.78		16.78
Lime (Spread)	ton	21.65						0.89	22.54		22.54
Bed-Rip/Disk Fold.	8R-38		2.46	0.82	2.36			0.19	5.83	6.06	11.89
Peanut Plt&Pre Rigid	8R-38		4.81	3.62	4.99			0.46	13.88	14.95	28.83
Peanut Seed	lb	130.50						4.49	134.99		134.99
Optimize LIFT	oz	2.22						0.08	2.30		2.30
Admire Pro	oz	23.04						0.79	23.83		23.83
Abound	oz	22.44						0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75						0.37	11.12		11.12
Valor SX	oz	9.18						0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10			0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13						0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Convoy	oz	34.56						0.95	35.51		35.51
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Storm	pt	25.61						0.70	26.31		26.31
Cadre	oz	7.48						0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52						0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80						0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52						0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Elatus	oz	35.05						0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52						0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Select Max	pt	15.01						0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Provost Silver	oz	19.76						0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22						0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01			0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18			0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36						0.19	27.55		27.55
Cleaning Peanuts	ton	29.16						0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01			0.17	24.26	25.62	49.88
TOTALS		473.97	52.00	24.49	45.95	0.00	14.75	611.16	160.13	771.29	

Note: Cost of production estimates are based on 2023 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.43	7.88	1.29	1.72	0.43	34.20
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	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.70	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.56	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	227.31	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-227.31	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-271.30	-365.20	-456.57	-462.02	598.84

Note: Cost of production estimates are based on 2023 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-128 -289	-98 -258	-68 -228	-38 -198	-7 -168	22 -137	52 -107	82 -77	113 -47	143 -16	173 13
60	1.32	ton	-43 -204	-7 -167	28 -131	65 -95	101 -58	137 -22	173 13	210 50	246 86	282 122	319 158
70	1.54	ton	41 -118	83 -76	125 -34	168 8	210 50	252 92	295 135	337 177	379 219	422 262	464 304
80	1.76	ton	126 -33	174 14	223 62	271 111	319 159	368 208	416 256	465 304	513 353	561 401	610 450
90	1.98	ton	211 51	265 105	320 160	374 214	429 268	483 323	537 377	592 432	646 486	701 541	755 595
100	2.20	ton	296 136	356 196	417 257	477 317	538 378	598 438	659 499	719 559	780 620	840 680	901 741
110	2.42	ton	381 221	447 287	514 354	581 420	647 487	714 554	780 620	847 687	913 753	980 820	1046 886
120	2.64	ton	466 306	539 378	611 451	684 524	756 596	829 669	902 741	974 814	1047 887	1119 959	1192 1032
130	2.86	ton	551 391	630 470	708 548	787 627	866 705	944 784	1023 863	1102 941	1180 1020	1259 1099	1338 1177
140	3.08	ton	636 476	721 561	805 645	890 730	975 815	1060 899	1144 984	1229 1069	1314 1154	1398 1238	1483 1323
150	3.30	ton	721 561	812 652	903 743	993 833	1084 924	1175 1015	1266 1106	1356 1196	1447 1287	1538 1378	1629 1469

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 2023 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	14.49	1.0000	14.49	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____
TOTAL DIRECT EXPENSES				616.81	_____
FIXED EXPENSES					
Implements	acre	64.89	1.0000	64.89	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
TOTAL FIXED EXPENSES				167.76	_____
TOTAL SPECIFIED EXPENSES				784.57	_____

Note: Cost of production estimates are based on 2023 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	4.44	1.0000	4.44	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	27.74	1.0000	27.74	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____

TOTAL DIRECT EXPENSES				616.81	_____
RETURNS ABOVE DIRECT EXPENSES				593.19	_____
TOTAL FIXED EXPENSES				167.76	_____

TOTAL SPECIFIED EXPENSES				784.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				425.43	_____

Note: Cost of production estimates are based on 2023 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning

Table 2.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

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
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
TOTALS							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.D Estimated costs for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

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						0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12						0.66	16.78		16.78
Lime (Spread)	ton	21.65						0.89	22.54		22.54
Bed-Rip/Disk Rigid	8R-38		2.46	0.77	2.36			0.19	5.78	5.74	11.52
Peanut Ptl&PreTwin	8R-30/40		4.81	6.92	4.99			0.57	17.29	22.90	40.19
Peanut Seed	lb	130.50						4.49	134.99		134.99
Optimize LIFT	oz	4.44						0.15	4.59		4.59
Admire Pro	oz	23.04						0.79	23.83		23.83
Abound	oz	22.44						0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75						0.37	11.12		11.12
Valor SX	oz	9.18						0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10			0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13						0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Convoy	oz	34.56						0.95	35.51		35.51
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Storm	pt	25.61						0.70	26.31		26.31
Cadre	oz	7.48						0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52						0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80						0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52						0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Elatus	oz	35.05						0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52						0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Select Max	pt	15.01						0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Provost Silver	oz	19.76						0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22						0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01			0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18			0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36						0.19	27.55		27.55
Cleaning Peanuts	ton	29.16						0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01			0.17	24.26	25.62	49.88
TOTALS		476.19	52.00	27.74	45.95	0.00	14.93	616.81	167.76	784.57	

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 2.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.43	7.88	1.29	1.72	0.43	34.20
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	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	7.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.74	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	232.96	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-232.96	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-276.95	-370.85	-462.22	-467.67	593.19

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.
 * Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-134 -302	-104 -272	-74 -241	-43 -211	-13 -181	16 -151	46 -120	77 -90	107 -60	137 -30	167 0
60	1.32	ton	-49 -217	-13 -181	23 -144	59 -108	95 -72	131 -35	168 0	204 36	240 73	277 109	313 145
70	1.54	ton	35 -132	77 -89	120 -47	162 -5	204 37	247 79	289 121	331 164	374 206	416 248	459 291
80	1.76	ton	120 -47	168 1	217 49	265 98	314 146	362 194	410 243	459 291	507 340	556 388	604 436
90	1.98	ton	205 37	260 92	314 146	368 201	423 255	477 310	532 364	586 419	641 473	695 527	750 582
100	2.20	ton	290 122	351 183	411 243	472 304	532 364	593 425	653 485	714 546	774 606	835 667	895 727
110	2.42	ton	375 207	442 274	508 341	575 407	641 474	708 540	775 607	841 673	908 740	974 806	1041 873
120	2.64	ton	460 293	533 365	606 438	678 510	751 583	823 656	896 728	969 801	1041 873	1114 946	1186 1019
130	2.86	ton	545 378	624 456	703 535	781 614	860 692	939 771	1017 850	1096 928	1175 1007	1253 1085	1332 1164
140	3.08	ton	630 463	715 547	800 632	885 717	969 801	1054 886	1139 971	1223 1056	1308 1140	1393 1225	1477 1310
150	3.30	ton	715 548	806 638	897 729	988 820	1078 911	1169 1001	1260 1092	1351 1183	1441 1274	1532 1364	1623 1455

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 2023 input prices.

Table 3.A Estimated costs per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.1856	21.27	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR					
	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	12.9499	44.54	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.99	1.0000	11.99	_____
Tractors	acre	10.60	1.0000	10.60	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____
TOTAL DIRECT EXPENSES				606.49	_____
FIXED EXPENSES					
Implements	acre	58.94	1.0000	58.94	_____
Tractors	acre	81.95	1.0000	81.95	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
TOTAL FIXED EXPENSES				157.91	_____
TOTAL SPECIFIED EXPENSES				764.40	_____

Note: Cost of production estimates are based on 2023 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____

TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1406	1.24	_____
OPERATOR LABOR	hour	17.94	1.3061	23.42	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL	gal	3.44	14.4842	49.77	_____
REPAIR & MAINTENANCE	acre	24.74	1.0000	24.74	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____

TOTAL DIRECT EXPENSES				606.49	_____
RETURNS ABOVE DIRECT EXPENSES				603.51	_____
TOTAL FIXED EXPENSES				157.91	_____

TOTAL SPECIFIED EXPENSES				764.40	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				445.60	_____

Note: Cost of production estimates are based on 2023 input prices.

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

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

Table 3.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

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
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
TOTALS							1.30	1.18	1.44	1.04

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 3.D Estimated costs for field operations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

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						0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12						0.66	16.78		16.78
Lime (Spread)	ton	21.65						0.89	22.54		22.54
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49			0.14	4.15	4.99	9.14
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32			0.36	10.89	13.80	24.69
Peanut Seed	lb	130.50						4.49	134.99		134.99
Optimize LIFT	oz	2.22						0.08	2.30		2.30
Admire Pro	oz	23.04						0.79	23.83		23.83
Abound	oz	22.44						0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75						0.37	11.12		11.12
Valor SX	oz	9.18						0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10			0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13						0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Convoy	oz	34.56						0.95	35.51		35.51
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Storm	pt	25.61						0.70	26.31		26.31
Cadre	oz	7.48						0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52						0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80						0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52						0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Elatus	oz	35.05						0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52						0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Select Max	pt	15.01						0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Provost Silver	oz	19.76						0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22						0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01			0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18			0.39	57.37	86.05	143.42
Dry Peanuts	ton	27.36						0.19	27.55		27.55
Cleaning Peanuts	ton	29.16						0.20	29.36		29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01			0.17	24.26	25.62	49.88
TOTALS			473.97	49.77	24.74	43.41	0.00	14.60	606.49	157.91	764.40

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 3.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.43	5.34	1.29	1.72	0.43	34.20
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	0.51	5.68	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.41	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	222.64	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-222.64	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-266.63	-360.53	-451.90	-457.35	603.51

Note: Cost of production estimates are based on 2023 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-124 -282	-94 -251	-63 -221	-33 -191	-3 -161	26 -130	57 -100	87 -70	117 -40	147 -9	178 20
60	1.32	ton	-39 -197	-2 -160	33 -124	69 -88	105 -51	142 -15	178 20	214 56	251 93	287 129	323 165
70	1.54	ton	45 -112	88 -69	130 -27	172 14	215 57	257 99	299 142	342 184	384 226	426 269	469 311
80	1.76	ton	130 -27	179 21	227 69	276 118	324 166	372 214	421 263	469 311	518 360	566 408	614 456
90	1.98	ton	215 58	270 112	324 166	379 221	433 275	488 330	542 384	597 439	651 493	706 548	760 602
100	2.20	ton	301 143	361 203	422 264	482 324	543 385	603 445	664 506	724 566	785 627	845 687	906 748
110	2.42	ton	386 228	452 294	519 361	585 427	652 494	718 560	785 627	851 694	918 760	985 827	1051 893
120	2.64	ton	471 313	543 385	616 458	688 531	761 603	834 676	906 748	979 821	1051 894	1124 966	1197 1039
130	2.86	ton	556 398	634 476	713 555	792 634	870 712	949 791	1028 870	1106 948	1185 1027	1264 1106	1342 1184
140	3.08	ton	641 483	725 568	810 652	895 737	980 822	1064 906	1149 991	1234 1076	1318 1160	1403 1245	1488 1330
150	3.30	ton	726 568	817 659	907 749	998 840	1089 931	1180 1022	1270 1112	1361 1203	1452 1294	1543 1385	1633 1475

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 2023 input prices.

Table 4.A Estimated costs per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2642	22.68	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
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	0.0602	0.51	_____
UNALLOCATED LABOR					
	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	13.6762	47.04	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
Irrigate Peanuts	gal	3.44	9.7755	33.64	_____
REPAIR & MAINTENANCE					
Implements	acre	12.24	1.0000	12.24	_____
Tractors	acre	11.15	1.0000	11.15	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	_____
TOTAL DIRECT EXPENSES				673.83	_____
FIXED EXPENSES					
Implements	acre	60.96	1.0000	60.96	_____
Tractors	acre	86.18	1.0000	86.18	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
Irrigate Peanuts	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				238.63	_____
TOTAL SPECIFIED EXPENSES				912.46	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 4.B Summary of estimated costs and returns per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	2.5000	1375.00	_____

TOTAL INCOME				1375.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1406	1.24	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	17.94	1.3846	24.83	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL	gal	3.44	24.9860	85.91	_____
REPAIR & MAINTENANCE	acre	32.70	1.0000	32.70	_____
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	_____

TOTAL DIRECT EXPENSES				673.83	_____
RETURNS ABOVE DIRECT EXPENSES				701.17	_____
TOTAL FIXED EXPENSES				238.63	_____

TOTAL SPECIFIED EXPENSES				912.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				462.54	_____

Note: Cost of production estimates are based on 2023 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 4.C Estimated resource use for field operations, per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

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
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							1.38	1.26	1.91	1.04

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 4.D Estimated costs for field operations, per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

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						0.14	3.47		3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.05	1.20	1.66	2.86
Glyphosate 3lbs a.e	pt	16.12						0.66	16.78		16.78
Lime (Spread)	ton	21.65						0.89	22.54		22.54
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49			0.14	4.15	4.99	9.14
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32			0.36	10.89	13.80	24.69
Peanut Seed	lb	130.50						4.49	134.99		134.99
Optimize LIFT	oz	2.22						0.08	2.30		2.30
Admire Pro	oz	23.04						0.79	23.83		23.83
Abound	oz	22.44						0.77	23.21		23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.04	1.19	1.66	2.85
Dual Magnum	pt	10.75						0.37	11.12		11.12
Valor SX	oz	9.18						0.32	9.50		9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10			0.01	0.29	0.42	0.71
Acephate 90%	lb	1.13						0.04	1.17		1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Convoy	oz	34.56						0.95	35.51		35.51
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Storm	pt	25.61						0.70	26.31		26.31
Cadre	oz	7.48						0.21	7.69		7.69
Butyrac 200 (2,4-DB)	pt	3.52						0.10	3.62		3.62
Crop Oil Conc.(Veg.)	pt	5.80						0.16	5.96		5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Bravo Weather Stick	pt	4.22						0.12	4.34		4.34
Tebuconazole 3.6	oz	2.52						0.07	2.59		2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Elatus	oz	35.05						0.72	35.77		35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Butyrac 200 (2,4-DB)	pt	3.52						0.07	3.59		3.59
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Select Max	pt	15.01						0.31	15.32		15.32
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Provost Silver	oz	19.76						0.41	20.17		20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.02	1.17	1.66	2.83
Bravo Weather Stick	pt	4.22						0.06	4.28		4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01			0.07	10.60	10.43	21.03
Peanut Harvester	6R-38		24.90	11.90	20.18			0.39	57.37	86.05	143.42
Dry Peanuts	ton	31.68						0.22	31.90		31.90
Cleaning Peanuts	ton	33.66						0.23	33.89		33.89
Peanut Dump Cart	6-Row		10.43	3.65	10.01			0.17	24.26	25.62	49.88
Irrigate Peanuts	acre	7.92	36.14	7.96	4.94			1.50	58.46	80.72	139.18
TOTALS		490.71	85.91	32.70	48.35	0.00	16.16	673.83	238.63	912.46	

Note: Cost of production estimates are based on 2023 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 4.E Estimated monthly income and expense flows per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

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	1375.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	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	130.50	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	21.65	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.68	0.00	0.00	0.00	0.00	0.00	0.66	7.77	1.52	2.18	1.34	34.20
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	1.28	0.00	0.00	0.00	0.00	0.00	0.51	6.34	9.94	18.86	9.48	39.50
REPAIR & MAINTENANCE	0.39	0.00	0.00	0.00	0.00	0.00	0.21	8.13	1.68	2.94	1.45	17.90
INTEREST ON OP. CAP.	0.19	0.00	0.00	0.00	0.00	0.00	1.75	7.89	2.79	2.23	0.23	1.08
TOTAL DIRECT EXPENSES	2.54	0.00	0.00	0.00	0.00	0.00	44.23	237.31	103.86	111.15	16.72	158.02
NET INCOME	-2.54	0.00	0.00	0.00	0.00	0.00	-44.23	-237.31	-103.86	-111.15	-16.72	1216.98
NET INCOME TO DATE	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54	-46.77	-284.08	-387.94	-499.09	-515.81	701.17

Note: Cost of production estimates are based on 2023 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Peanut Runner	412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50		
PERCENT	YIELD	UNIT	dollars										
50	1.25	ton	-125 -363	-90 -329	-56 -295	-22 -260	12 -226	46 -192	80 -157	115 -123	149 -88	184 -54	218 -20
60	1.50	ton	-28 -267	12 -226	53 -184	94 -143	136 -102	177 -61	218 -19	259 21	301 62	342 103	383 145
70	1.75	ton	67 -170	115 -122	164 -74	212 -26	260 21	308 69	356 117	404 166	452 214	500 262	549 310
80	2.00	ton	164 -74	219 -19	274 35	329 90	384 145	439 200	494 255	549 310	604 365	659 420	714 475
90	2.25	ton	260 22	322 84	384 145	446 207	508 269	570 331	632 393	693 455	755 517	817 579	879 640
100	2.50	ton	357 118	426 187	494 256	563 325	632 393	701 462	769 531	838 600	907 668	976 737	1044 806
110	2.75	ton	453 215	529 290	605 366	680 442	756 517	832 593	907 669	983 744	1058 820	1134 895	1210 971
120	3.00	ton	550 311	633 394	715 476	798 559	880 641	963 724	1045 806	1128 889	1210 971	1293 1054	1375 1136
130	3.25	ton	647 408	736 497	825 587	915 676	1004 765	1093 855	1183 944	1272 1034	1362 1123	1451 1212	1540 1302
140	3.50	ton	743 504	839 601	936 697	1032 793	1128 889	1224 986	1321 1082	1417 1178	1513 1274	1609 1371	1706 1467
150	3.75	ton	840 601	943 704	1046 807	1149 910	1252 1014	1355 1117	1458 1220	1562 1323	1665 1426	1768 1529	1871 1632

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 2023 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, 2024

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	17.94	46.92	48.22	113.09	230.93	344.02
Combine (300-349 hp)	325 hp	530,000	300	8	16.73	17.94	57.55	55.20	130.69	264.34	395.04
Combine (350-399 hp)	355 hp	549,000	300	8	18.27	17.94	62.84	57.18	137.97	273.82	411.80
Combine (400-449 hp)	425 hp	560,000	300	8	21.87	17.94	75.25	58.33	151.52	279.31	430.83
Combine (450-499hp)	475 hp	586,000	300	8	24.44	17.94	84.10	61.04	163.08	292.28	455.36
Tractor (20-39hp)CB	MFWD 30	37,100	600	8	1.54	17.94	5.31	1.15	24.41	8.68	33.09
Tractor (20-39hp)RB	MFWD 30	27,200	600	8	1.54	17.94	5.31	0.85	24.10	6.36	30.46
Tractor (40-59hp)CB	2WD 50	39,900	600	8	2.57	17.94	8.85	1.24	28.04	9.33	37.37
Tractor (40-59hp)CB	MFWD 50	50,300	600	8	2.57	17.94	8.85	1.57	28.36	11.77	40.13
Tractor (40-59hp)RB	2WD 50	28,100	600	8	2.57	17.94	8.85	0.87	27.67	6.57	34.24
Tractor (40-59hp)RB	MFWD 50	33,900	600	8	2.57	17.94	8.85	1.05	27.85	7.93	35.78
Tractor (60-89hp)CB	2WD 75	64,000	600	8	3.86	17.94	13.27	2.00	33.21	14.97	48.19
Tractor (60-89hp)CB	MFWD 75	74,900	600	8	3.86	17.94	13.27	2.34	33.56	17.52	51.08
Tractor (60-89hp)RB	2WD 75	59,800	600	8	3.86	17.94	13.27	1.86	33.08	13.99	47.08
Tractor (60-89hp)RB	MFWD 75	53,500	600	8	3.86	17.94	13.27	1.67	32.89	12.51	45.41
Tractor (90-119hp)CB	2WD 105	94,400	600	8	5.40	17.94	18.59	2.95	39.48	22.08	61.57
Tractor (90-119hp)CB	MFWD 105	102,500	600	8	5.40	17.94	18.59	3.20	39.73	23.98	63.71
Tractor (90-119hp)RB	2WD 105	84,000	600	8	5.40	17.94	18.59	2.62	39.15	19.65	58.81
Tractor (90-119hp)RB	MFWD 105	90,700	600	8	5.40	17.94	18.59	2.83	39.36	21.22	60.58
Tractor (120-139hp)CB	2WD 130	135,400	600	8	6.69	17.94	23.01	4.23	45.18	31.68	76.87
Tractor (120-139hp)CB	MFWD 130	170,900	600	8	6.69	17.94	23.01	5.34	46.29	39.99	86.28
Tractor (140-159hp)	2WD 150	137,500	600	8	7.72	17.94	26.55	4.29	48.79	32.17	80.97
Tractor (140-159hp)CB	MFWD 150	171,000	600	8	7.72	17.94	26.55	5.34	49.84	40.01	89.85
Tractor (160-179hp)CB	MFWD 170	201,000	600	8	8.75	17.94	30.10	6.28	54.32	48.58	102.90
Tractor (180-199hp)CB	MFWD 190	246,000	600	8	9.77	17.94	33.64	7.68	59.27	59.45	118.72
Tractor (200-249hp)CB	MFWD 225	309,000	600	8	11.58	17.94	39.83	9.65	67.43	74.68	142.11
Tractor (250-349hp)CB	4WD 300	432,000	600	8	15.44	17.94	53.11	13.50	84.55	104.41	188.97
Tractor (250-349hp)CB	MFWD 300	357,000	600	8	15.44	17.94	53.11	11.15	82.21	86.28	168.49
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	17.94	53.11	10.28	81.34	79.51	160.85
Tractor (350-449hp)	Track 400	625,000	600	8	20.58	17.94	70.82	19.53	108.29	151.05	259.35
Tractor (350-449hp)CB	4WD 400	480,000	600	8	20.58	17.94	70.82	15.00	103.76	116.01	219.77
Tractor (450-550hp)CB	4WD 500	426,000	600	8	25.73	17.94	88.53	13.31	119.78	102.96	222.74
Tractor (450-550hp)CB	Track 500	653,000	600	8	25.73	17.94	88.53	20.40	126.87	157.82	284.70
Utility Vehicle	800 CC	12,200	200	8	0.70	17.94	2.24	1.90	22.09	9.12	31.22
Utility Vehicle	900 CC	18,700	200	8	1.00	17.94	3.21	2.92	24.07	13.99	38.06

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, 2024

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	6.96	11.41	10.79	29.16	51.68	80.85
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.96	15.97	14.13	37.07	67.69	104.76
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.65	10.67	9.61	24.94	46.02	70.96
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	5.89	13.71	15.85	35.46	75.92	111.39
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.65	10.83	12.51	28.00	59.94	87.94
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.96	18.25	21.58	46.80	103.37	150.17
Cotton Picker/Module	6R-30 (500)	936,000	200	8	25.73	0.218	5.89	19.32	31.91	57.13	152.83	209.96
Cotton Picker/Module	6R-38 (500)	941,000	200	8	25.73	0.172	4.65	15.25	25.33	45.24	121.30	166.55
Dry Applicator SP	70'300cuft	469,000	350	8	16.98	0.015	0.33	0.88	0.37	1.60	3.02	4.63
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.39	0.54	0.20	1.14	1.62	2.77
Sprayer 600-825gal	80' 175hp	268,000	350	8	11.81	0.013	0.29	0.53	0.18	1.02	1.51	2.53
Sprayer 600-825gal	90' 250hp	331,000	350	8	12.73	0.011	0.26	0.51	0.20	0.98	1.66	2.65
Sprayer 800gal	100' 250hp	364,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 800gal	80' 250hp	294,000	350	8	12.86	0.013	0.29	0.58	0.20	1.09	1.66	2.75
Sprayer 1000-1400gal	90' 275hp	363,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 1000gal	100' 300hp	492,000	350	8	15.44	0.010	0.23	0.56	0.27	1.07	2.22	3.30
Sprayer 1200+gal	120' 300hp	472,000	350	8	15.44	0.008	0.19	0.46	0.22	0.88	1.77	2.66

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, 2024 (continued)

Table with columns: Item Name, Size, Power Unit, Purchase Price, Annual Use, Useful Life, Perf Rate, Labor, Fuel, ---R&M---, Total, --Fixed--, Total Cost. Includes rows for NT Plant-Rigid, Peanut Cond. & Lifter, and various other agricultural equipment.

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Avaris	oz	1.41
Agri-Dex	pt	3.00	Avicta 500 Soybean	oz	2.14
AMS SuperMax	pt	3.81	Bravo Weather Stick	pt	5.62
Class Act NG	pt	5.00	Captan 4L	pt	4.50
Crop Oil Conc.(Pet.)	pt	2.86	Convoy	oz	1.44
Crop Oil Conc.(Veg.)	pt	2.90	Cotton Seed Trt.	acre	20.00
Dyne-A-Pak	pt	6.88	CruiserMaxx Vibrance	oz	7.63
Fire-Zone	pt	3.94	Elatus	oz	3.81
Herbimax	pt	2.75	Flint Extra	oz	10.11
Induce	pt	5.00	Headline EC	oz	5.98
MSO	pt	1.34	Miravis Ace	oz	1.78
Penetrator Plus	pt	2.32	Miravis Top	oz	6.09
Surfactant	pt	3.30	Priaxor Xemium	oz	4.06
CLEANING			Propimax EC	pt	12.50
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.89
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.52
Cotton Consultant	acre	8.00	Quadris	oz	6.25
Peanut Consultant	acre	9.25	Quadris Top	oz	3.00
Rice Consultant	acre	8.00	Quadris Top SBX	oz	3.13
Sorghum Consultant	acre	6.00	Quilt	pt	4.00
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	21.75
Wheat Consultant	acre	5.50	Stratego	pt	22.50
CUSTOM FERTILIZE			Stratego YLD	oz	2.65
App Fert by Air	cwt	8.00	Tilt 3.6 EC	oz	1.02
App Fert by Air(Mi)	appl	8.00	Tilt/ Bravo SE	oz	0.81
Custom Apply Fert	acre	7.50	Trivapro	oz	1.48
CUSTOM LIME			GINNING		
Lime (Spread)	ton	65.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	8.43	Mepichlor 4.2%	oz	0.17
CUSTOM SPRAY			Mepiquat	oz	0.07
App by Air (3 gal)	appl	6.87	Mepstar 6	oz	0.09
App by Air (5 gal)	appl	8.11	Palisade	oz	1.47
App by Air (10 gal)	appl	10.57	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSG	oz	1.36
DRYING			Stance	oz	1.40
Dry Corn	bu	0.19	Veto	oz	0.07
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.99
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.25
Eradication	acre	1.00	Defol 5	gal	8.61
FERTILIZERS			Display	oz	10.59
Agrotain Ultra	pt	12.50	Ethephon 6E	pt	3.38
Amm Sulfate (21% N)	cwt	26.00	Finish 6	pt	10.93
Boron Plus	pt	5.10	Folex 6EC	pt	11.25
DAP	cwt	47.21	Freefall SC	oz	0.89
Fert 10-34-0	cwt	40.00	Ginstar EC	pt	29.72
Fert 10-34-0	gal	4.66	Gramoxone SL	oz	0.33
Fert 11-37-0	cwt	41.25	Sharpen	oz	7.91
Fert 41-0-0-4	cwt	38.00	Sodium Chlorate 5L	gal	8.61
Lime	ton	55.00	SuperBoll	oz	0.18
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.14
Phosphorus(46% P2O5)	cwt	39.25	Tribufos 6lb	pt	11.25
Potash (60% K2O)	cwt	36.20	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	36.15	Haul Corn	bu	0.23
UAN (32%)	gal	4.00	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	31.10	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	3.46	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	31.69	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.50	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.87	2,4-D Amine 4	pt	2.72
Alfa Guard	lb	1.62	2,4-D Ester	pt	4.87
Allegiance Flowabl	oz	6.33	AAtrex 4L	pt	3.00
Ameristar Top	oz	2.52	Accent Q	oz	23.39
Approach Prima	pt	34.50	Acuron	oz	0.56
Apron Maxx RTA	oz	1.02	Aim	oz	8.13
Artisan	oz	0.70			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim 2EC	oz	8.13	Halomax	oz	21.11
Anthem Flex	oz	5.57	Harmony Extra SG	oz	10.34
Anthem Maxx	oz	4.50	Helmet	oz	0.48
Armezon Pro	oz	1.12	Huskie	oz	0.96
Atrazine 4L	pt	2.71	Impact	oz	13.44
Atrazine 90DF	lb	5.09	Intimidator	oz	0.64
Authority First	lb	37.75	Leadoff	oz	6.79
Authority Elite	pt	14.50	League	oz	4.19
Authority Maxx	lb	68.82	Lexar	pt	6.76
Authority MTZ	lb	19.75	Liberty 280	oz	0.76
Avatar	pt	8.04	Loyant	oz	2.29
Avenger	pt	10.01	Makaze	oz	0.21
Axial XL	oz	1.71	Metolachlor	pt	7.89
Axiom	oz	2.25	Metribuzin 4L	pt	21.13
Banvel	pt	10.94	Metribuzin 75	lb	14.80
Barrage	pt	4.13	MSMA	pt	6.35
Basagran	pt	5.43	Newpath	oz	4.15
Boundary	pt	12.00	Obey	oz	1.08
Brake	oz	1.48	Osprey	oz	3.58
Broadaxe	pt	14.50	Outlook	pt	14.77
Broadhead	lb	58.21	Panther Pro	oz	6.61
Bucaneer Plus	pt	3.13	Parallel	pt	8.32
Buctril	pt	4.28	Paraquat	oz	0.23
Butyrac 200 (2,4-DB)	pt	3.52	Parazone 3SL	oz	0.18
Cadre	oz	1.87	Permit	oz	20.07
Callisto	oz	2.99	Permit Plus	oz	22.22
Canopy	oz	3.25	PowerFlex	oz	7.21
Caparol	pt	4.97	Preface	oz	4.99
Capreno	oz	4.00	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	14.29	Quelex	oz	11.30
Classic	oz	16.67	RealmQ	oz	4.32
Clearpath	oz	4.24	RebelEx	oz	2.00
Clethodim 2E	oz	0.33	Reflex	pt	7.34
Clincher SF	oz	2.54	Regiment	oz	45.96
Cobra	oz	1.50	Resicore	oz	0.60
Command 3ME	pt	17.50	Resource	oz	2.03
Corvus	oz	5.53	RiceBeaux	pt	6.25
Cotoran	pt	5.24	Riceshot	pt	4.68
Cotton Pro	pt	3.45	Ricestar HT	pt	26.01
Dicamba	pt	5.32	Ringside	pt	5.63
Direx	pt	5.46	Roundup Power Max	oz	0.46
Diuron	pt	4.25	Roundup PowerMax	pt	7.33
Dual II Magnum	pt	13.25	Roundup PowerMax ii	oz	0.27
Dual Magnum	pt	10.75	Roundup Pro	pt	0.20
Duet	pt	6.09	Scepter 70 DG	oz	4.64
Engenia	oz	0.80	Select Max	pt	13.86
Enlist Duo	pt	5.92	Sencor/Tricor.Metrib	lb	17.78
Enlist One	pt	7.66	Sequence	pt	7.14
Envive	oz	3.90	Sharpen	oz	6.72
Envoke	oz	115.00	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	15.75	Stam M4	qt	8.00
Firestorm	pt	3.44	Staple LX	oz	3.95
First Rate	oz	34.50	Storm	pt	12.65
Flexstar	pt	9.75	Strada	oz	7.34
Flexstar GT	pt	7.25	Strada Pro	oz	8.20
Fusilade DX	oz	1.33	Strada XT2	oz	3.26
Gambit	oz	16.50	Superwham	qt	9.82
Glyphosate 3lbs a.e	pt	4.03	Suprend	lb	13.52
Glyphosate 3lbs a.e	oz	0.25	SureStart II	oz	0.39
Goal 2XL	pt	10.75	Surveil	oz	6.70
Gramoxone SL 2.0	oz	0.33	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	9.63			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	4.36	Mustang Max	oz	1.18
Triflurex	pt	3.47	Nuprid 4F	oz	1.04
Ultra Blazer	pt	7.50	Oberon	oz	3.28
Valor EZ	oz	5.23	Orthene 97	lb	29.33
Valor SX	oz	3.06	Permethrin	oz	0.79
Valor XLT	oz	3.59	Portal XLO	oz	0.74
Vamos	pt	6.49	Pounce 25WP	lb	19.96
Verdict	oz	1.61	Prevathon	oz	1.05
Veritas	pt	7.49	Python WDG	oz	19.25
Villain	pt	5.24	Radiant	oz	9.60
Volunteer	pt	10.63	Sevin SL	pt	12.25
Warrant	pt	4.00	Sevin XLR Plus	qt	21.50
XtendiMax	oz	0.48	Sivanto Prime	oz	3.01
Zidua SC	oz	5.58	Tempest	oz	1.70
Zidua WG	oz	8.76	Tenchu SG	oz	1.13
INOCULANT			Transform WG	oz	9.34
Inoculant -Soybean	acre	1.55	Up-Cyde	oz	0.49
Optimize LIFT	oz	0.15	Warrior ZT	oz	3.02
INSECTICIDES			Zeal	oz	8.42
Abamectin .15EC	oz	0.30	IRRIGATION SUPPLIES		
Acephate 90%	lb	8.25	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	8.25	SEED/PLANTS		
Admire Pro	oz	2.56	Corn Seed BtRR	thous	3.61
Agri-Mek	oz	3.44	Corn Seed Conv.	thous	3.80
Asana .66 XL	oz	0.62	Corn Seed Op Leptra	thous	4.95
Avenger	oz	0.28	Corn Seed RR2	thous	4.26
Baythroid XL	oz	1.32	Corn Seed VT2P	thous	4.80
Belt	oz	6.41	Cot. Seed B3XF/W3FE	thous	2.52
Besiege	oz	2.75	Cotton Seed B3XF	thous	2.60
Bidrin 8EC	oz	1.51	Cotton Seed GLB2	thous	1.89
Bifenthrin	oz	0.56	Cotton Seed W3FE	thous	2.43
Bifenture 2EC	oz	0.58	Cotton Seed W3RF	thous	1.50
Brigade EC	pt	20.27	Peanut Seed	lb	0.87
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	0.57	Rice Seed CF(Levees)	lb	1.30
Declare	oz	2.03	Rice Seed Clearfield	lb	1.30
Diamond .83EC	oz	1.26	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	13.50	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	1.63	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	1.76	Rice Seed FPH(Levee)	lb	7.68
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.40
Hero	oz	1.35	Rice Seed Trt/Insect	lbseed	0.29
Imidaclopid 4F	oz	0.79	Sorghum Concept	lb	2.84
Imidan 70 WSB	oz	1.13	Sorghum Concept+ Po	lb	4.16
IncidentalPestTrt\$8	acre	8.00	Soybean Enlist E3	lb	1.07
IncidentalPestTrt\$15	acre	15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$22	acre	22.00	Soybean Seed RR2	lb	1.12
IncidentalPestTrt\$30	acre	30.00	Soybean Seed RR2X	lb	1.15
Intrepid 2F	oz	1.99	Wheat Seed Private	lb	0.34
Intruder 70WSP	oz	1.13	SOIL TEST		
Lambda	oz	0.39	Soil Test	acre	10.00
Lannate LV	pt	8.33	SURVEY & MARK LEVEES		
Macho	oz	0.62	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, 2024

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.44
Gasoline	gal	3.21
INTEREST RATES		
Short-term	%	8.25
Intermediate-term	%	8.50

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2024

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	17.94
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, 2024

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '24	5.17	-0.06	5.11	2.35	5.11
Cotton Lint	lb	Dec '24	0.8151	-0.0123	0.8028	0.52	0.8028
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				4.85	4.09	4.85
Peanuts	ton				550.00	354.89	550.00
Soybeans	bu	Nov '24	12.61	0.06	12.67	6.41	12.67
Rice	bu	Nov '24	5.83	-0.17	5.66	3.21	5.66
Wheat	bu	Jul '24	6.32	-0.15	6.17	3.60	6.17

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2023 for the stated contract months.

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2023 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

^d Average Mississippi County CCC Loan Rate for 2023 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2023 Farm-stored Loan Rate for long grain rough rice. National 2023 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2008-2021.

Appendix Table 8 Estimated costs for field operations, per acre
 Peanuts irrigated with roll-out pipe
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		1.28	0.39	0.68			0.19	2.54	2.59	5.13
Set Up Engine											
IRRIGATE LABOR	hour				0.23			0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17			0.02	0.56	0.51	1.07
Roll-Out Pipe	ft	7.92						0.27	8.19		8.19
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45			0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81			0.06	1.87		1.87
Apply Water											
IRRIGATE LABOR	hour				0.23			0.01	0.24		0.24
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		0.56	0.19	0.68			0.02	1.45	1.89	3.34
Land Forming (\$450)	each									43.97	43.97
Well & Pump, Furrow	each			2.96				0.10	3.06	12.03	15.09
Main Line Pipe	each									6.65	6.65
Engine, RPF, PNUT	each									11.82	11.82
1st July Irrigation	ac-in		8.41	1.05				0.26	9.72		9.72
1st Aug Irrigation	ac-in		8.41	1.05				0.20	9.66		9.66
2nd Aug Irrigation	ac-in		8.41	1.05				0.20	9.66		9.66
1st Sep Irrigation	ac-in		8.41	1.05				0.13	9.59		9.59
TOTALS		7.92	36.14	7.96	4.94	0.00		1.50	58.46	80.72	139.18

Note: Cost of production estimates are based on 2023 input prices.

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