

**PEANUTS
2015
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2014-07**

October 2014

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 2015 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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2015 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 2014. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre.

Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, and 13).

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

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

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

Net Returns

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

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

Irrigation Costs

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

Enterprise Budgets

Table 1.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P ₂ O ₅)	cwt	24.50	0.4300	10.54	_____
Potash (60% K ₂ O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.6246	20.40	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR	hour	12.56	1.4760	18.55	_____
DIESEL FUEL					
Tractors	gal	3.20	17.5722	56.24	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	10.28	1.0000	10.28	_____
Tractors	acre	10.20	1.0000	10.20	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.59	1.0000	7.59	_____
TOTAL DIRECT EXPENSES				637.93	_____
FIXED EXPENSES					
Implements	acre	32.48	1.0000	32.48	_____
Tractors	acre	62.18	1.0000	62.18	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				107.78	_____
TOTAL SPECIFIED EXPENSES				745.71	_____

Note: Cost of production estimates are based on 2014 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2309	2.09	_____
OPERATOR LABOR	hour	12.55	1.8450	23.15	_____
UNALLOCATED LABOR	hour	12.56	1.4760	18.55	_____
DIESEL FUEL	gal	3.20	19.5556	62.61	_____
REPAIR & MAINTENANCE	acre	22.48	1.0000	22.48	_____
INTEREST ON OP. CAP.	acre	7.59	1.0000	7.59	_____

TOTAL DIRECT EXPENSES				637.93	_____
RETURNS ABOVE DIRECT EXPENSES				127.07	_____
TOTAL FIXED EXPENSES				107.78	_____

TOTAL SPECIFIED EXPENSES				745.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				19.29	_____

Note: Cost of production estimates are based on 2014 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Fold.	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Plt&Pre Rigid	8R-38	MFWD 190	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	4R-38	MFWD 190	0.186	1.00	Sep		0.18	0.18	0.18	0.14
Peanut Harvester	4R-38	MFWD 225	0.934	1.00	Sep		0.93	0.93	0.93	0.74
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.84	1.62	2.07	1.47

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Fold.	8R-38		2.29	0.52	1.65			0.08	4.54	2.94	7.48
Peanut Plt&Pre Rigid	8R-38		3.78	2.33	3.82			0.18	10.11	6.98	17.09
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	4.01						0.06	4.07		4.07
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	5.77						0.06	5.83		5.83
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	4R-38		5.83	2.18	4.21			0.04	12.26	7.31	19.57
Peanut Harvester	4R-38		34.64	13.01	21.11			0.25	69.01	64.41	133.42
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
Dry Peanuts	ton	25.92						0.10	26.02		26.02
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.10	26.20		26.20
TOTALS		501.46	62.61	22.48	43.79	0.00	7.59	637.93	107.78	745.71	

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 1.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	25.46	39.54	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	5.95	1.44	1.92	1.20	32.80
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	6.58	1.53	2.04	1.27	50.68
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.01	0.48	0.64	0.40	17.79
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.73	0.76	1.20	0.36	0.68
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	151.21	52.17	110.55	49.52	188.16
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-151.21	-52.17	-110.55	-49.52	576.84
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-237.53	-289.70	-400.25	-449.77	127.07

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-311 -418	-292 -399	-272 -380	-253 -361	-234 -342	-215 -323	-196 -304	-177 -285	-158 -265	-139 -246	-119 -227
60	1.08	ton	-261 -369	-238 -346	-215 -323	-192 -300	-169 -277	-146 -254	-124 -231	-101 -208	-78 -185	-55 -162	-32 -140
70	1.26	ton	-212 -320	-185 -293	-158 -266	-132 -239	-105 -213	-78 -186	-51 -159	-24 -132	1 -105	28 -79	55 -52
80	1.44	ton	-162 -270	-132 -240	-101 -209	-71 -178	-40 -148	-9 -117	20 -87	51 -56	81 -25	112 4	143 35
90	1.62	ton	-113 -221	-79 -186	-44 -152	-10 -118	24 -83	58 -49	92 -14	127 19	161 54	196 88	230 122
100	1.80	ton	-64 -171	-25 -133	12 -95	50 -57	88 -18	127 19	165 57	203 95	241 134	280 172	318 210
110	1.98	ton	-14 -122	27 -80	69 -38	111 3	153 45	195 87	237 129	279 171	321 214	363 256	405 298
120	2.16	ton	34 -73	80 -27	126 18	172 64	218 110	264 156	309 202	355 248	401 294	447 339	493 385
130	2.34	ton	83 -23	133 25	183 75	233 125	282 175	332 224	382 274	432 324	481 374	531 423	581 473
140	2.52	ton	133 25	186 79	240 132	294 186	347 239	401 293	454 346	508 400	561 453	615 507	668 561
150	2.70	ton	182 74	240 132	297 189	354 247	412 304	469 361	527 419	584 476	641 533	699 591	756 648

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 2014 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	0.4300	10.54	_____
Potash (60% K2O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.6876	21.18	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR					
	hour	12.57	1.5264	19.19	_____
DIESEL FUEL					
Tractors	gal	3.20	18.0359	57.71	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	10.69	1.0000	10.69	_____
Tractors	acre	10.38	1.0000	10.38	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.71	1.0000	7.71	_____
TOTAL DIRECT EXPENSES				641.82	_____
FIXED EXPENSES					
Implements	acre	30.97	1.0000	30.97	_____
Tractors	acre	63.23	1.0000	63.23	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				107.32	_____
TOTAL SPECIFIED EXPENSES				749.14	_____

Note: Cost of production estimates are based on 2014 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2629	2.38	_____
OPERATOR LABOR	hour	12.55	1.9080	23.93	_____
UNALLOCATED LABOR	hour	12.57	1.5264	19.19	_____
DIESEL FUEL	gal	3.20	20.0193	64.08	_____
REPAIR & MAINTENANCE	acre	23.07	1.0000	23.07	_____
INTEREST ON OP. CAP.	acre	7.71	1.0000	7.71	_____

TOTAL DIRECT EXPENSES				641.82	_____
RETURNS ABOVE DIRECT EXPENSES				123.18	_____
TOTAL FIXED EXPENSES				107.32	_____

TOTAL SPECIFIED EXPENSES				749.14	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.86	_____

Note: Cost of production estimates are based on 2014 input prices

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Rigid	8R-30	MFWD 190	0.139	1.00	May		0.13	0.13	0.13	0.11
Peanut Plt&Pre Rigid	8R-30	MFWD 190	0.152	1.00	May		0.15	0.15	0.30	0.12
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	4R-30	MFWD 190	0.235	1.00	Sep		0.23	0.23	0.23	0.18
Peanut Harvester	4R-30	MFWD 225	0.849	1.00	Sep		0.85	0.85	0.85	0.68
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.90	1.68	2.17	1.52

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Rigid	8R-30		4.35	0.94	3.14			0.15	8.58	5.35	13.93
Peanut Plt&Pre Rigid	8R-30		4.78	3.10	4.83			0.23	12.94	9.09	22.03
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	4.01						0.06	4.07		4.07
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	5.77						0.06	5.83		5.83
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	4R-30		7.38	2.76	5.33			0.06	15.53	9.26	24.79
Peanut Harvester	4R-30		31.50	11.83	19.20			0.23	62.76	57.48	120.24
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
Dry Peanuts	ton	25.92						0.10	26.02		26.02
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.10	26.20		26.20
TOTALS		501.46	64.08	23.07	45.50	0.00	7.71	641.82	107.32	749.14	

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 2.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	25.46	39.54	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	8.45	1.44	1.92	1.20	32.01
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	9.64	1.53	2.04	1.27	49.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	4.20	0.48	0.64	0.40	17.19
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.85	0.76	1.20	0.36	0.68
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	158.08	52.17	110.55	49.52	185.18
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-158.08	-52.17	-110.55	-49.52	579.82
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-244.40	-296.57	-407.12	-456.64	123.18

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-315 -422	-295 -403	-276 -384	-257 -364	-238 -345	-219 -326	-200 -307	-181 -288	-162 -269	-142 -250	-123 -231
60	1.08	ton	-265 -372	-242 -349	-219 -327	-196 -304	-173 -281	-150 -258	-127 -235	-104 -212	-82 -189	-59 -166	-36 -143
70	1.26	ton	-216 -323	-189 -296	-162 -270	-135 -243	-109 -216	-82 -189	-55 -162	-28 -136	-2 -109	24 -82	51 -55
80	1.44	ton	-166 -274	-136 -243	-105 -212	-75 -182	-44 -151	-13 -121	16 -90	47 -59	77 -29	108 1	139 31
90	1.62	ton	-117 -224	-83 -190	-48 -155	-14 -121	20 -87	54 -52	89 -18	123 16	157 50	192 85	226 119
100	1.80	ton	-68 -175	-29 -137	8 -98	46 -60	84 -22	123 15	161 54	199 92	237 130	276 168	314 207
110	1.98	ton	-18 -126	23 -83	65 -41	107 0	149 42	191 84	233 126	275 168	317 210	359 252	402 294
120	2.16	ton	30 -76	76 -30	122 15	168 61	214 106	260 152	306 198	352 244	397 290	443 336	489 382
130	2.34	ton	80 -27	129 22	179 72	229 121	278 171	328 221	378 271	428 320	477 370	527 420	577 470
140	2.52	ton	129 22	183 75	236 129	290 182	343 236	397 289	450 343	504 397	557 450	611 504	664 557
150	2.70	ton	178 71	236 128	293 186	351 243	408 301	465 358	523 415	580 473	637 530	695 587	752 645

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 2014 input prices.

Table 3.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.50	0.4300	10.54	_____
Potash (60% K2O)	cwt	23.60	0.5200	12.27	_____
FUNGICIDES					
Bravo Weather Stick	pt	4.43	7.0000	31.01	_____
Abound	pt	31.43	2.2500	70.72	_____
Tebuconazole	oz	0.78	9.0000	7.02	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.25	4.0000	9.00	_____
Dual II Magnum	pt	14.50	1.0000	14.50	_____
Valor SX	oz	6.15	3.0000	18.45	_____
Storm	pt	11.50	3.0000	34.50	_____
Cadre	oz	4.01	2.4400	9.78	_____
Butyrac 200 (2,4-DB)	pt	4.20	2.0000	8.40	_____
Select Max	pt	12.32	1.0000	12.32	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.85	1.5000	4.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.70	110.0000	77.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	4.60	6.0000	27.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
HAULING					
Haul Peanuts	ton	14.50	1.8000	26.10	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.5300	27.54	_____
DRYING					
Dry Peanuts	ton	24.00	1.0800	25.92	_____
CUSTOM LIME					
Lime (Spread)	ton	45.00	1.0000	45.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.1856	14.88	_____
Self-Propelled	hour	12.55	0.2203	2.75	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1101	1.00	_____
UNALLOCATED LABOR					
	hour	12.58	1.1248	14.16	_____
DIESEL FUEL					
Tractors	gal	3.20	12.8051	40.97	_____
Self-Propelled	gal	3.20	1.9833	6.37	_____
REPAIR & MAINTENANCE					
Implements	acre	8.29	1.0000	8.29	_____
Tractors	acre	7.43	1.0000	7.43	_____
Self-Propelled	acre	2.00	1.0000	2.00	_____
INTEREST ON OP. CAP.	acre	7.44	1.0000	7.44	_____
TOTAL DIRECT EXPENSES				607.48	_____
FIXED EXPENSES					
Implements	acre	27.82	1.0000	27.82	_____
Tractors	acre	45.27	1.0000	45.27	_____
Self-Propelled	acre	13.12	1.0000	13.12	_____
TOTAL FIXED EXPENSES				86.21	_____
TOTAL SPECIFIED EXPENSES				693.69	_____

Note: Cost of production estimates are based on 2014 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.B Summary of estimated costs and returns per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	425.00	1.8000	765.00	_____

TOTAL INCOME				765.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.81	1.0000	22.81	_____
FUNGICIDES	acre	108.77	1.0000	108.77	_____
HERBICIDES	acre	106.95	1.0000	106.95	_____
INSECTICIDES	acre	19.28	1.0000	19.28	_____
SEED/PLANTS	acre	77.00	1.0000	77.00	_____
ADJUVANTS	acre	27.60	1.0000	27.60	_____
CUSTOM FERTILIZE	acre	6.50	1.0000	6.50	_____
HAULING	acre	26.10	1.0000	26.10	_____
CLEANING	acre	27.54	1.0000	27.54	_____
DRYING	acre	25.92	1.0000	25.92	_____
CUSTOM LIME	acre	45.00	1.0000	45.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.1905	1.73	_____
OPERATOR LABOR	hour	12.55	1.4060	17.63	_____
UNALLOCATED LABOR	hour	12.58	1.1248	14.16	_____
DIESEL FUEL	gal	3.20	14.7884	47.34	_____
REPAIR & MAINTENANCE	acre	17.72	1.0000	17.72	_____
INTEREST ON OP. CAP.	acre	7.44	1.0000	7.44	_____

TOTAL DIRECT EXPENSES				607.48	_____
RETURNS ABOVE DIRECT EXPENSES				157.52	_____
TOTAL FIXED EXPENSES				86.21	_____

TOTAL SPECIFIED EXPENSES				693.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				71.31	_____

Note: Cost of production estimates are based on 2014 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 3.C Estimated resource use for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			1.00	Apr	1.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.4300				
Potash (60% K2O)	cwt					0.5200				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					110.0000				
Optimize LIFT	oz					14.8000				
Phorate	lb					5.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Weather Stick	pt					1.0000				
Tebuconazole	oz					9.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Abound	pt					1.1250				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Bravo Weather Stick	pt					1.5000				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Dry Peanuts	ton			1.00	Sep	1.0800				
Cleaning Peanuts	ton			1.00	Sep	1.5300				
Haul Peanuts	ton			1.00	Sep	1.8000				
TOTALS							1.40	1.18	1.59	1.12

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 3.D Estimated costs for field operations, per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.03	1.18	1.05	2.23
Glyphosate 3lbs a.e	pt	9.00						0.20	9.20		9.20
Lime (Spread)	ton	45.00						0.99	45.99		45.99
Custom Apply Fert	acre	6.50						0.14	6.64		6.64
Phosphorus(46% P2O5)	cwt	10.54						0.23	10.77		10.77
Potash (60% K2O)	cwt	12.27						0.27	12.54		12.54
Bed-Rip/Disk Fold.	12R-38		1.71	0.45	1.04			0.06	3.26	2.54	5.80
Peanut Plt&Pre Fold.	12R-38		2.52	2.76	2.55			0.14	7.97	6.87	14.84
Peanut Seed	lb	77.00						1.41	78.41		78.41
Optimize LIFT	oz	7.99						0.15	8.14		8.14
Phorate	lb	15.00						0.28	15.28		15.28
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Dual II Magnum	pt	14.50						0.27	14.77		14.77
Valor SX	oz	18.45						0.34	18.79		18.79
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Storm	pt	17.25						0.25	17.50		17.50
Cadre	oz	5.77						0.08	5.85		5.85
Butyrac 200 (2,4-DB)	pt	4.20						0.06	4.26		4.26
Crop Oil Conc.(Veg.)	pt	9.20						0.13	9.33		9.33
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.02	1.17	1.05	2.22
Bravo Weather Stick	pt	6.65						0.10	6.75		6.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.39	35.75		35.75
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Storm	pt	17.25						0.19	17.44		17.44
Cadre	oz	4.01						0.04	4.05		4.05
Butyrac 200 (2,4-DB)	pt	4.20						0.05	4.25		4.25
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Select Max	pt	12.32						0.14	12.46		12.46
Crop Oil Conc.(Veg.)	pt	9.20						0.10	9.30		9.30
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	4.43						0.05	4.48		4.48
Tebuconazole	oz	7.02						0.08	7.10		7.10
Sprayer 600-750gal	60' 175hp		0.25	0.08	0.24				0.57	0.52	1.09
Karate Z	oz	4.28						0.03	4.31		4.31
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Abound	pt	35.36						0.26	35.62		35.62
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48			0.01	1.16	1.05	2.21
Bravo Weather Stick	pt	6.65						0.05	6.70		6.70
Sprayer 600-750gal	60' 175hp		0.51	0.16	0.48				1.15	1.05	2.20
Bravo Weather Stick	pt	6.65						0.02	6.67		6.67
Peanut Dig/Invertor	6R-38		3.88	1.49	2.81			0.03	8.21	5.31	13.52
Peanut Harvester	6R-38		23.16	8.58	14.12			0.17	46.03	45.35	91.38
Peanut Dump Cart	6-Row		9.70	2.44	7.00			0.07	19.21	13.02	32.23
Dry Peanuts	ton	25.92						0.10	26.02		26.02
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.10	26.20		26.20
TOTALS		501.46	47.34	17.72	33.52	0.00	7.44	607.48	86.21	693.69	

Note: Cost of production estimates are based on 2014 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 3.E Estimated monthly income and expense flows per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2015

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	765.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.81	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	46.81	42.01	6.65
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	9.00	32.95	27.22	37.78	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	4.28	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	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	9.20	18.40	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.10
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.54
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.92
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.48	4.07	1.44	1.92	1.20	24.41
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	4.74	1.53	2.04	1.27	37.25
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.37	0.48	0.64	0.40	12.67
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.67	0.78	1.18	0.36	0.59
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	86.32	147.79	53.95	108.77	49.52	161.13
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-147.79	-53.95	-108.77	-49.52	603.87
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-86.32	-234.11	-288.06	-396.83	-446.35	157.52

Note: Cost of production estimates are based on 2014 input prices.

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

Fertilization decisions should be based on soil tests.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
All Areas, Mississippi, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			318.75	340.00	361.25	382.50	403.75	425.00	446.25	467.50	488.75	510.00	531.25
PERCENT	YIELD	UNIT	dollars										
50	0.90	ton	-280 -366	-261 -347	-242 -328	-223 -309	-204 -290	-185 -271	-165 -252	-146 -233	-127 -213	-108 -194	-89 -175
60	1.08	ton	-231 -317	-208 -294	-185 -271	-162 -248	-139 -225	-116 -202	-93 -179	-70 -156	-47 -133	-24 -110	-1 -87
70	1.26	ton	-181 -268	-155 -241	-128 -214	-101 -187	-74 -161	-48 -134	-21 -107	5 -80	32 -53	59 -27	85 -0
80	1.44	ton	-132 -218	-101 -188	-71 -157	-40 -126	-10 -96	20 -65	51 -35	81 -4	112 26	142 56	173 87
90	1.62	ton	-83 -169	-48 -134	-14 -100	20 -66	54 -31	89 2	123 37	157 71	192 106	226 140	261 174
100	1.80	ton	-33 -119	4 -81	42 -43	81 -5	119 33	157 71	195 109	234 147	272 186	310 224	348 262
110	1.98	ton	15 -70	57 -28	99 13	141 55	183 97	226 139	268 181	310 223	352 266	394 308	436 350
120	2.16	ton	65 -21	110 24	156 70	202 116	248 162	294 208	340 254	386 300	432 346	478 391	524 437
130	2.34	ton	114 28	164 77	213 127	263 177	313 227	363 276	412 326	462 376	512 426	561 475	611 525
140	2.52	ton	163 77	217 131	270 184	324 238	378 291	431 345	485 398	538 452	592 506	645 559	699 613
150	2.70	ton	213 127	270 184	327 241	385 299	442 356	500 413	557 471	614 528	672 586	729 643	786 700

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 2014 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, 2015

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	291,000	300	8	13.64	12.55	43.64	30.31	86.51	116.03	202.54
Combine (300-349 hp)	325 hp	325,000	300	8	16.73	12.55	53.53	33.85	99.94	129.59	229.53
Combine (350-399 hp)	355 hp	350,000	300	8	18.27	12.55	58.46	36.45	107.47	139.56	247.03
Combine (400-449 hp)	425 hp	375,000	300	8	21.87	12.55	70.00	39.06	121.61	149.53	271.14
Combine (450-499hp)	475 hp	397,000	300	8	24.44	12.55	78.23	41.35	132.14	158.30	290.44
Cotton Stripper	173 hp	170,000	200	8	8.08	12.55	25.85	26.56	64.96	101.68	166.65
Tractor (20-39hp)CB	MFWD 30	31,100	600	8	1.54	12.55	4.94	0.97	18.46	5.64	24.11
Tractor (20-39hp)RB	MFWD 30	18,600	600	8	1.54	12.55	4.94	0.58	18.07	3.37	21.44
Tractor (40-59hp)CB	2WD 50	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor (40-59hp)CB	MFWD 50	38,900	600	8	2.57	12.55	8.23	1.21	22.00	7.06	29.06
Tractor (40-59hp)RB	2WD 50	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor (60-89hp)RB	MFWD 50	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor (60-89hp)CB	2WD 75	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor (60-89hp)CB	MFWD 75	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor (60-89hp)RB	2WD 75	35,000	600	8	3.86	12.55	12.35	1.09	25.99	6.35	32.35
Tractor (60-89hp)RB	MFWD 75	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor (90-119hp)CB	2WD 105	63,100	600	8	5.40	12.55	17.29	1.97	31.81	11.45	43.27
Tractor (90-119hp)CB	MFWD 105	74,400	600	8	5.40	12.55	17.29	2.32	32.16	13.51	45.68
Tractor (90-119hp)RB	2WD 105	54,300	600	8	5.40	12.55	17.29	1.69	31.54	9.86	41.40
Tractor (90-119hp)RB	MFWD 105	56,900	600	8	5.40	12.55	17.29	1.77	31.62	10.33	41.95
Tractor (120-139hp)CB	2WD 130	96,300	600	8	6.69	12.55	21.41	3.00	36.97	17.48	54.46
Tractor (120-139hp)CB	MFWD 130	114,000	600	8	6.69	12.55	21.41	3.56	37.52	20.70	58.22
Tractor (140-159hp)CB	2WD 150	127,000	600	8	7.72	12.55	24.70	3.96	41.22	23.06	64.29
Tractor (140-159hp)CB	MFWD 150	143,000	600	8	7.72	12.55	24.70	4.46	41.72	25.97	67.69
Tractor (160-179hp)CB	MFWD 170	156,000	600	8	8.75	12.55	28.00	4.87	45.42	29.71	75.14
Tractor (180-199hp)CB	MFWD 190	167,000	600	8	9.77	12.55	31.29	5.21	49.06	31.81	80.87
Tractor (200-249hp)CB	MFWD 225	226,000	600	8	11.58	12.55	37.06	7.06	56.67	43.05	99.72
Tractor (200-249hp)CB	Track 225	277,000	600	8	11.58	12.55	37.06	8.65	58.26	52.76	111.03
Tractor (250-349hp)CB	4WD 300	277,000	600	8	15.44	12.55	49.41	8.65	70.62	52.76	123.38
Tractor (250-349hp)CB	MFWD 300	271,000	600	8	15.44	12.55	49.41	8.46	70.43	51.62	122.05
Tractor (250-349hp)CB	Track 300	281,000	600	8	15.44	12.55	49.41	8.78	70.74	53.52	124.27
Tractor (350-449hp)CB	4WD 400	313,000	600	8	20.58	12.55	65.88	9.78	88.21	59.62	147.84
Tractor (350-449hp)CB	Track 400	364,000	600	8	20.58	12.55	65.88	11.37	89.80	69.33	159.14
Tractor (450-550hp)CB	4WD 500	361,000	600	8	25.73	12.55	82.35	11.28	106.18	68.76	174.95
Tractor (450-550hp)CB	Track 500	399,000	600	8	25.73	12.55	82.35	12.46	107.37	76.00	183.38
Utility Vehicle	900 CC	14,300	200	8	1.00	12.55	3.40	2.23	18.18	8.55	26.73
Utility Vehicle	800 CC	6,500	200	8	0.70	12.55	2.38	1.01	15.94	3.88	19.83
Utility Vehicle-mule	600 CC	11,500	200	8	0.50	12.55	1.70	1.79	16.04	6.87	22.92

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

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, 2015

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-30(350)	350,000	200	8	18.01	0.327	7.07	18.87	17.90	43.85	68.53	112.38
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.57	10.82	10.75	27.15	41.16	68.31
Cotton Picker	4R-38(350)	406,000	200	8	18.01	0.257	5.57	14.86	16.35	36.78	62.59	99.38
Cotton Picker	4R2x1(350)	413,000	200	8	18.01	0.172	3.72	9.93	11.11	24.77	42.56	67.34
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	4.71	12.76	15.85	33.33	60.70	94.03
Cotton Picker	6R-38(355)	478,000	200	8	18.27	0.172	3.72	10.07	12.86	26.66	49.26	75.93
Cotton Picker/Module	4R-38(365)	548,000	200	8	18.78	0.257	5.57	15.49	22.07	43.14	84.49	127.63
Cotton Picker/Module	6R-30(365)	608,000	200	8	18.78	0.218	4.71	13.12	20.73	38.57	79.36	117.94
Cotton Picker/Module	6R-30(500)	688,000	200	8	25.73	0.218	4.71	17.97	23.46	46.15	89.81	135.96
Cotton Picker/Module	6R-38(365)	606,000	200	8	18.78	0.172	3.72	10.35	16.31	30.39	62.45	92.85
Cotton Picker/Module	6R-38(500)	689,000	200	8	25.73	0.172	3.72	14.19	18.55	36.46	71.01	107.47
Dry Applicator SP	70'300cuft	289,000	350	8	16.98	0.015	0.25	0.82	0.23	1.31	1.49	2.80
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.60	0.27	0.08	0.95	0.53	1.48
Sprayer 600-750gal	60' 175hp	174,000	350	8	9.00	0.017	0.30	0.50	0.16	0.97	1.04	2.02
Sprayer 600-825gal	80' 175hp	174,000	350	8	11.81	0.013	0.22	0.49	0.12	0.84	0.78	1.63
Sprayer 600-825gal	90' 250hp	254,000	350	8	12.73	0.011	0.20	0.47	0.15	0.83	1.02	1.85
Sprayer 800gal	100' 250hp	256,000	350	8	14.15	0.010	0.18	0.47	0.14	0.80	0.92	1.73
Sprayer 800gal	80' 250hp	242,000	350	8	12.86	0.013	0.22	0.54	0.17	0.94	1.09	2.03
Sprayer 1000-1400gal	90' 275hp	290,000	350	8	14.15	0.010	0.18	0.47	0.16	0.82	1.04	1.87
Sprayer 1000gal	100' 300hp	302,000	350	8	15.44	0.010	0.18	0.52	0.17	0.87	1.09	1.96
Sprayer 1200+gal	120' 300hp	318,000	350	8	15.44	0.008	0.15	0.43	0.15	0.73	0.95	1.69
Utility Vehicle	20'	15,650	200	8	1.00	0.052	0.90	0.17	0.12	1.21	0.49	1.70
Utility Vehicle	75"ropewic	8,750	200	8	0.70	0.170	3.22	0.40	0.23	3.86	0.89	4.75

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, 2015 (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-----							
Spray (Levee Leaper)	50'	MFWD 225	14,000	200	8	0.033	0.57	1.25	0.22	0.23	2.29	0.25	1.45	4.00
Spray (Pull Type)	60'	MFWD 225	29,700	200	8	0.028	0.48	1.04	0.39	0.19	2.11	0.45	1.21	3.79
Spray (Pull Type)	80'	MFWD 225	39,400	200	8	0.021	0.36	0.78	0.39	0.14	1.68	0.45	0.91	3.04
Spray (Pull Type)	90'	2WD 50	39,900	200	8	0.018	0.32	0.15	0.35	0.01	0.83	0.40	0.06	1.31
Spray (Pull Type)	120'	MFWD 225	72,900	200	8	0.014	0.24	0.52	0.48	0.09	1.34	0.56	0.60	2.51
Spray (Ropewick)	20'	MFWD 190	2,650	200	8	0.084	1.44	2.64	0.10	0.44	4.64	0.12	2.69	7.45
Spray (Spot)	27'	MFWD 170	5,940	200	8	0.062	1.07	1.75	0.17	0.30	3.30	0.20	1.86	5.37
Spray (Spot)	40'	MFWD 170	7,350	200	8	0.042	0.72	1.18	0.14	0.20	2.25	0.16	1.25	3.68
Spray (Spot)	50'	MFWD 170	67,300	200	8	0.033	0.57	0.94	1.06	0.16	2.75	1.24	1.00	5.00
Spray (Spot)	53'	MFWD 170	7,650	200	8	0.031	0.54	0.89	0.11	0.15	1.70	0.13	0.94	2.79
Spray (Spot)	60'	MFWD 225	10,000	200	8	0.028	0.48	1.04	0.13	0.19	1.85	0.15	1.21	3.22
Stalk Shredder	14'	MFWD 150	13,200	200	10	0.117	1.47	2.91	1.36	0.52	6.27	0.79	3.06	10.13
Stalk Shredder Flex	20'	MFWD 150	34,000	200	10	0.082	1.03	2.03	2.45	0.36	5.89	1.43	2.14	9.46
Stalk Shredder-Flail	12'	MFWD 150	15,800	200	10	0.137	1.72	3.39	1.90	0.61	7.63	1.10	3.57	12.31
Stalk Shredder-Flail	15'	MFWD 150	19,900	200	10	0.110	1.38	2.71	1.91	0.49	6.50	1.11	2.85	10.47
Stalk Shredder-Flail	18'	MFWD 150	25,700	200	10	0.091	1.15	2.26	2.06	0.40	5.88	1.20	2.38	9.46
Stalk Shredder-Flail	20'	MFWD 150	26,900	200	10	0.082	1.03	2.03	1.94	0.36	5.38	1.13	2.14	8.65
Stalk Shredder-Flail	25'	MFWD 150	37,700	200	10	0.066	0.82	1.63	2.17	0.29	4.93	1.26	1.71	7.91
Strip Till	8R-38	MFWD 225	38,600	150	10	0.061	0.77	2.28	1.03	0.43	4.52	1.61	2.65	8.79
Strip Till	12R-30	MFWD 225	47,500	150	10	0.061	0.77	2.28	1.26	0.43	4.76	1.98	2.65	9.40
Strip Till	12R-40	MFWD 225	54,100	150	10	0.046	0.58	1.71	1.08	0.32	3.70	1.69	1.98	7.39
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.56	6.39	0.24	1.06	10.26	0.57	6.50	17.33
Subsoiler	4 shank	MFWD 225	8,230	100	15	0.153	1.92	5.69	0.42	1.08	9.12	0.99	6.61	16.73
Subsoiler	5 shank	MFWD 225	11,100	100	15	0.122	1.53	4.53	0.45	0.86	7.38	1.06	5.26	13.72
Subsoiler low-till	4 shank	MFWD 225	12,400	100	15	0.153	1.92	5.69	0.63	1.08	9.34	1.49	6.61	17.45
Subsoiler low-till	6 shank	MFWD 225	14,800	100	15	0.102	1.28	3.78	0.50	0.72	6.29	1.18	4.39	11.88
Subsoiler low-till	8 shank	MFWD 225	22,200	100	15	0.076	0.96	2.83	0.56	0.54	4.90	1.33	3.29	9.53

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			CruiserMaxx	oz	4.15
Crop Oil Conc.(Pet.)	pt	3.60	Dithane F-45	qt	7.94
Crop Oil Conc.(Veg.)	pt	4.60	Dithane Rainshield	lb	2.75
Drift/Defoamer	pt	4.90	Enable 2F	oz	1.94
Spreader Sticker	pt	3.55	Folicur 3.6	oz	1.08
Surfactant	pt	3.60	Headline EC	oz	3.62
CLEANING			Headline SC	oz	3.53
Cleaning Peanuts	ton	18.00	Manzate 75 DF	lb	4.83
CROP CONSULTANT			Moncut 70 DF	lb	25.00
Crop Consultant	acre	7.00	Prevail	lb	28.50
Rice Consultant	acre	7.00	Prosaro	oz	2.77
CUSTOM FERTILIZE			Provost	oz	2.46
App Fert by Air	cwt	6.50	Quadris	oz	2.86
App Fert by Air(Mi)	appl	6.50	Quilt	pt	22.34
Custom Apply Fert	acre	6.50	Quilt XCEL	pt	30.41
CUSTOM LIME			Ridomil Gold	oz	6.54
Lime (Spread)	ton	45.00	Ridomil Gold PC GR	lb	4.00
CUSTOM PLANT			Rovral 4F	pt	14.20
Custom Plant	acre	13.00	Stiletto	oz	0.58
Custom Plant Air	cwt	6.50	Stratego	pt	24.91
CUSTOM SPRAY			Stratego YLD	oz	4.91
App by Air (2 gal)	appl	3.25	Tebuconazole	oz	0.78
App by Air (3 gal)	appl	4.75	Terrachlor 2EC	pt	1.87
App by Air (5 gal)	appl	6.00	Tilt 3.6 EC	oz	0.84
App by Air (10 gal)	appl	8.00	Tilt/ Bravo SE	oz	0.43
Custom Spray Ground	acre	7.50	Uniform	oz	5.12
Custom Spray Self Pr	acre	6.25	Vitavax RTU-Thiram	oz	0.40
Custom Spray Tractor	acre	7.75	GINNING		
DRYING			Gin & Haul	lb	0.11
Dry Corn	bu	0.19	GROWTH REGULATORS		
Dry Grain Sorghum	cwt	0.25	Early Harvest PGR	oz	1.55
Dry Peanuts	ton	24.00	Mepex	oz	0.09
Dry Rice	bu	0.40	Mepex Gin Out	oz	0.16
ERADICATION FEE			Mepichlor 4.2%	oz	0.11
Eradication	acre	1.00	Mepiquat	oz	0.90
FERTILIZERS			Mepiquat Extra	oz	0.10
Amm Sulfate (21% N)	cwt	18.60	Pentia	pt	5.89
Amm Sulfate dry/mix	lb	0.20	Pix Plus	oz	0.19
Boron 15G	lb	0.75	Stance	oz	1.22
Boron Plus	pt	4.25	SuperBoll	oz	2.57
DAP	cwt	29.00	HARVEST AIDS		
Fert 10-34-0	cwt	26.00	Adios	oz	1.38
Fert 11-37-0	cwt	28.00	Aim 2EC	oz	6.33
Fert 30-0-0-5	cwt	18.00	Ammonium Sulfate	lb	0.20
Fert 33-0-0-12S	cwt	23.75	CottonQuik	pt	4.52
Fert 41-0-0-4	cwt	23.50	Def 6	pt	8.25
Lime	ton	35.00	Def/Folex	pt	8.62
Phosphorus(46% P2O5)	cwt	24.50	Defol 3	gal	3.49
Potash (60% K2O)	cwt	23.60	Defol 5	gal	6.07
Sulfur 90%	lb	0.26	Defol 750	pt	2.04
Sulfur 90%	lb	0.26	Dropp SC	oz	1.60
Sulfur Plus	pt	2.60	ET	pt	47.26
SuperMax AMS	pt	2.70	Ethephon 6E	pt	3.27
UAN (32% N)	cwt	18.50	Finish 6	pt	8.59
UAN + Sulfur (28%)	cwt	17.90	First Pick	pt	3.55
Urea, Solid (46% N)	cwt	25.25	Flash	pt	6.34
Zinc Plus	pt	3.00	Folex 6EC	pt	8.99
Zinc Sulfate 31%	lb	0.50	Freefall SC	oz	1.34
FUNGICIDES			Ginstar EC	pt	27.89
Abound	pt	31.43	Gramoxone SL	oz	0.30
Alfa Guard	lb	1.61	Paraquat	oz	0.33
Allegiance Flowable	pt	55.63	Prep	pt	3.32
Apron Maxx RTA	oz	0.81	Sharpen	oz	5.63
Apron Maxx RTA+Moly	pt	14.74	Shed-a-leaf	gal	3.60
Apron XL LS	oz	7.93	Sodium Chlorate 3L	gal	3.50
Artisan	oz	1.02	Sodium Chlorate 5L	gal	5.57
Bravo Ultrex	lb	5.83	TDZ SC	oz	1.50
Bravo Weather Stick	pt	4.43	Thidiazuron 4lb	oz	1.50
Captan 50 WP	lb	6.00	Tribufos 6lb	pt	9.13
Cotton Seed Trt.	acre	20.00	Vacate	oz	1.17

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
HAULING			Glyfos Xtra	pt	2.25
Haul Corn	bu	0.23	Glyphosate 3lbs a.e	pt	2.25
Haul Peanuts	ton	14.50	Glyphosate 3lbs a.e	oz	0.14
Haul Rice	bu	0.35	Glystar Plus	pt	2.25
Haul Sorghum	bu	0.25	Goal 2XL	pt	10.00
Haul Soybeans	bu	0.27	Gramonone SL 2.0	oz	0.32
Haul Wheat	bu	0.26	Grandstand R	qt	28.38
HERBICIDES			Guardsman Max	pt	6.93
2,4-D Amine 4	pt	2.44	Halex GT	pt	5.96
2,4-D Weedar 64	pt	3.00	Halomax	oz	19.00
AAtrex 4L	pt	2.08	Harmony Extra SG	oz	12.84
AAtrex NINE-O	lb	3.93	Harmony Extra XP	oz	14.35
Accent Q	oz	32.47	Harness XTRA	pt	7.24
Aim 2EC	oz	6.33	Hoelon 3EC	pt	11.03
Assure II	oz	0.74	Ignite 280	pt	8.93
Atrazine 4L	pt	1.93	Impact	oz	11.67
Atrazine 90DF	lb	3.93	Karmex XP	lb	5.93
Axial XL	oz	1.05	Lariat	qt	7.49
Axiom 68DF	oz	1.86	Laudis	oz	5.43
Banvel	pt	11.10	Layby Pro	qt	14.18
Basagran	pt	11.88	Leadoff	oz	4.00
Basis	oz	17.91	Lexar	pt	7.08
Beyond	oz	4.29	Liberty 280	oz	0.66
Bicep II Magnum	qt	10.97	Linex 4L	pt	12.12
Bicep Lite Magnum	pt	7.24	Londax 60DF	oz	17.25
Blazer Ultra	pt	9.56	Lorox 50DF	lb	18.70
Bolero 8EC	pt	7.50	Makaze	pt	1.88
Boundary 6.5 EC	pt	10.05	Metribuzin 75	lb	10.75
Buccaneer Plus	pt	2.19	MSMA 6.6	pt	3.50
Bullet	pt	3.73	MSMA6 Plus	pt	3.21
Butyrac 175 (2,4-D)	pt	3.27	Newpath 2SL	oz	3.47
Butyrac 200 (2,4-DB)	pt	4.20	Osprey	oz	3.08
Cadre	oz	4.01	Outlook	pt	16.88
Callisto 4SC	oz	5.68	Paraquat	oz	0.33
Canopy 75%	oz	2.69	Parazone 3SL	oz	0.32
Canopy EX	oz	7.63	Parrlay	pt	8.13
Caparol 4L	pt	3.69	Parrot 4L	pt	2.95
Capreno	oz	6.48	Peak Accu Pak	oz	15.45
Celebrity Plus	lb	84.50	Permit 75 DF	oz	19.73
Clarity	pt	11.88	Poast 1.53	pt	11.95
Classic	oz	16.28	Poast Plus	pt	8.66
Clearpath	lb	55.06	PowerFlex	pt	10.39
Clincher SF	oz	2.30	Prefix	pt	6.26
Cobra 2EC	oz	1.61	Propimax EC	pt	15.81
Command 3ME	pt	19.06	Prowl 3.3 EC	pt	5.63
Cornerstone Plus	pt	1.56	Prowl H20	pt	5.95
Corvus	oz	6.46	Pursuit 2S	oz	3.25
Cotoran 4L	pt	5.98	Python WDG	oz	13.04
Cotton Pro	pt	3.50	Quinstar	lb	45.94
Credit Extra	pt	2.10	Raptor	oz	4.18
Dicamba	pt	11.41	RealmQ	oz	4.75
Direx 4L	pt	4.44	Reflex 2LC	pt	7.04
Diuron 4L	pt	4.19	Regiment 80WP	oz	41.38
Diuron 80 DF	lb	2.70	Remedy Ultra	pt	8.60
Diuron 80%	lb	2.70	Resolve SG	oz	7.95
Dual II Magnum	pt	14.50	Resource .86EC	pt	28.75
Dual Magnum	pt	13.49	Ricebeaux	pt	5.40
Duet	pt	4.99	RicePro	pt	4.87
Envoke	oz	93.50	Riceshot	pt	3.81
Evik DF 80W	lb	11.75	Ricestar HT	pt	22.55
Exceed	oz	10.71	Rifel	pt	8.24
Expert	pt	4.27	Roundup Power Max	oz	0.21
Facet L	pt	10.36	Roundup PowerMax	pt	3.25
Finesse	oz	8.06	Roundup WeatherMax	oz	0.27
First Rate	oz	38.78	Roundup WeatherMax	pt	4.07
Flexstar	pt	10.68	Salvo	pt	5.13
Frontier 6.0	oz	0.63	Scepter 70 DG	oz	4.52
Fultime	pt	5.25	Select Max	pt	12.32
Fusilade DX	oz	1.14	Sequence	pt	5.96

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Sharpen	oz	5.68	Imidan 70 WSB	oz	0.68
Simazine 4L	pt	3.17	Incidental Pest Trt	acre	12.00
Stalwart	pt	7.44	Intrepid 2F	oz	2.00
Stam 80 EDF	lb	8.04	Intruder 70WSP	oz	9.65
Stam M4	qt	7.75	Karate Z	oz	2.85
Staple LX	oz	8.55	Kelthane MF 4EC	pt	5.00
Steadfast	oz	11.85	Lambda	oz	1.10
Sterling Blue	pt	9.81	Lannate LV	pt	10.34
Storm	pt	11.50	Lannate SP	oz	1.93
Strada WG	oz	6.50	Larvin 3.2	oz	0.63
Strongarm	oz	51.20	Leverage 2.7	oz	1.66
Superwham	qt	8.83	Lorsban 15G	lb	3.59
Suprend	lb	12.92	Lorsban 4E	pt	5.63
Surpass EC	qt	26.25	Macho	oz	0.91
Synchrony XP	oz	12.07	Malathion 5E	pt	4.99
Touchdown Total	qt	6.74	Malathion 8E	pt	5.60
Treflan 4D	pt	3.40	Methyl Parathion 4	pt	5.79
Tricor DF	lb	15.28	Monitor 4	pt	16.50
Trifluralin 4EC	pt	3.34	Montana	oz	0.91
Valor SX	oz	6.15	Mustang Max	oz	1.60
Valor XLT	oz	4.69	Nuprid 4F	oz	1.15
Verdict	oz	1.65	Oberon 4 SC	pt	76.00
Zidua	oz	7.80	Orthene 90S	lb	6.55
Zorial Rapid 80DF	lb	14.10	PennCap-M	pt	6.71
INOCULANT			Pounce 25WP	lb	12.85
Nitrastick S	lbseed	0.02	Prolex	oz	2.62
Nitro Fix	lbseed	0.03	Provoke	oz	1.75
Optimize LIFT	oz	0.54	Radiant	oz	6.20
INSECT SCOUTING			Respect .8EC	pt	34.00
Insect Scouting	acre	7.00	Sevin 4F	pt	6.00
INSECTICIDES			Sevin 80S	lb	7.40
Abamectin .15EC	pt	12.50	Sevin XLR Plus	qt	12.50
Acephate 90%	lb	6.88	Sniper	oz	1.05
Acephate 90SP	lb	7.23	Steward	pt	30.12
Acramite-4SC	oz	1.88	Temik 15G Grit	lb	4.00
Asana .66 XL	oz	0.64	Temik 15G Gypsum	lb	4.00
Aztec 2.1% G	lb	3.68	Thimet 20-G Lock N L	lb	3.60
Baythroid XL	oz	2.40	Thionex 3 EC	pt	4.65
Bidrin 8WM	oz	1.04	Thionex 50W	lb	10.45
Bidrin XP	oz	0.80	Tombstone Helios	pt	43.75
Bifenthrin	oz	0.95	Tracer 4SC	oz	9.73
Bifenture 2EC	pt	14.69	Trimax Pro	oz	1.85
Brigade EC	pt	21.01	Tundra	oz	0.78
Brigade WSB	lb	22.20	Vydate C-LV	oz	0.89
Capture LFR	oz	2.40	Phorate	lb	3.00
Carbaryl 4L	pt	5.35	Zeal Miticid I	oz	15.89
Carbine 50WG	oz	5.25	Zephyr	oz	0.85
Centric 40WG	oz	4.83	IRRIGATION SUPPLIES		
Comite 1l	pt	8.46	Roll-Out Pipe	ft	0.26
Confirm 2F	oz	2.05	SEED/PLANTS		
Counter 15G	lb	4.22	Corn Seed BtRR	thous	3.47
Cruiser Maxx Rice	lbseed	0.15	Corn Seed Conv.	thous	2.88
Curacron 8E	pt	10.75	Corn Seed LLRRBT	thous	3.43
Cypermethrin	oz	0.55	Corn Seed RR2	thous	3.08
Denim 0.16 EC	pt	32.63	Corn Seed VT3	thous	3.72
Diamond .83EC	pt	16.61	Corn Seed VT3Pro	thous	3.56
Dimethoate 4E	pt	6.27	Cotton Seed B2RF	thous	0.74
Dimilin 2L	oz	2.01	Cotton Seed LLB2	thous	1.19
Dipel DF	lb	13.50	Peanut Seed	lb	0.70
Dipel ES	pt	5.00	Rice Clearfield	lb	0.90
Discipline 2 EC	oz	0.86	Rice Clearfield Hyb	lb	6.12
Endigo ZC	pt	15.07	Rice Conv. Hybrid	lb	5.80
Epi-Mek	pt	15.66	Rice Seed (Levees)	lb	0.38
Fanfare 2EC	oz	0.88	Rice Seed CF(Levees)	lb	0.90
Force 3G	lb	6.73	Rice Seed CFH(Levee)	lb	6.12
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.38
Furadan 4FLFR	pt	9.81	Sorghum Concept	lb	2.28
Gaicho 600	oz	5.80	Soybean Seed LL	lb	1.12
Hero	pt	24.59	Soybean Seed RR2	lb	1.19
Holster	pt	14.38			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Wheat Seed Private	lb	0.32	B2RF Cot Tech Fee	thous	1.49
SURVEY & MARK LEVEES			B2RF Cot Tech Fee	cap/ac	62.69
Survey & Mark Levees	acre	4.50	LLB2 Cot Tech Fee	thous	0.76
Survey & Mark Levees	acre	4.50	RF Cot Tech Fee	thous	1.04
TECHNOLOGY FEE			RF Cot Tech Fee	cap/ac	43.66
B2 Cot Tech Fee	thous	0.76	WRF Cot Tech Fee	thous	1.45
B2 Cot Tech Fee	cap/ac	31.91	WS Cot Tech Fee	thous	0.41
			WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2015

ITEM NAME	UNIT	PRICE
		dollars
Diesel Fuel (DI) Price	(\$/gal):	3.20
Gasoline (GA) Price	(\$/gal):	3.40
LP Gas (LP) Price	(\$/gal):	2.30
Short-term Interest Rate	(%):	4.40
Intermediate-term Interest Rate	(%):	4.50

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2015

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.55
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, 2015

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '15	3.84420	-0.3411	3.50	2.1	3.50
Cotton Lint	lb	Dec '15	0.67240	-0.0310	0.641	0.52	0.64
Cottonseed	lb						0.113 ^f
Grain Sorghum	bu				3.34	2.02	3.34
Peanuts	ton				425.00	355.00	425.00
Soybeans	bu	Nov '15	9.86050	-0.2036	9.66	5.21	9.66
Rice	bu	Sep '15	5.83450	-0.2583	5.58	2.98	5.58
Wheat	bu	Jul '15	5.37180	-0.3954	4.98	2.65	4.98

^a Average of the daily closing futures contract prices during September 2014 for the stated contract months.

^b Basis is the mid-week Greenville, MS cash price minus the futures contract price for the stated contract month. The reported basis is an Olympic average from 2006 to 2013, which removes the highest and lowest within week basis value. All basis values are composed of the typical harvest timeframe for each crop according to USDA, NASS crop progress reports.
Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

^c The forward contract price for cotton, soybeans, corn, wheat, and rice 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 estimated from a poll of industry peanut buyers.

^d Average Mississippi loan rate for the 2014 crop year for soybeans, corn, grain sorghum, and wheat. 2014 National average Loan rate for cotton. 2014 Mississippi farm stored loan rate for long grain rice. 2014 national average loan rate for peanuts.

^e Price used in the 2015 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2010-2014.

Appendix Table 8. Estimated costs for field operations, per acre
 Irrigation with a 1/4-mile center pivot system
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27			0.01	0.28	0.28
Maintenance										
IRRIGATE LABOR	hour				1.07			0.02	1.09	1.09
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Apply Water										
IRRIGATE LABOR	hour				0.20				0.20	0.20
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Pivot, 1/4 CP	each			11.23				0.21	11.44	43.18
Well & Pump, 1/4 CP	each			2.89				0.05	2.94	8.12
Engine, 1/4 CP, 65	each									9.17
June Irr. 3app@.75"	ac-in		10.75	1.34				0.22	12.31	12.31
July Irr. 4app@.75"	ac-in		14.34	1.79				0.24	16.37	16.37
Aug Irr. 3app@.75"	ac-in		10.75	1.34				0.13	12.22	12.22
TOTALS		0.00	35.84	18.59	1.84	0.00	0.88		57.15	60.47

Note: Cost of production estimates are based on 2014 input prices.

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