

**PEANUTS  
2014  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2013-07**

**December 2013**



## 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 2014 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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# 2014 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 2013. (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, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.00	0.4300	10.32	_____
Potash (60% K2O)	cwt	23.75	0.5200	12.35	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.37	54.0000	19.98	_____
Artisan	oz	0.96	64.0000	61.44	_____
Provost	oz	2.01	32.0000	64.32	_____
Bravo Ultrex	lb	5.80	2.8000	16.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.00	4.0000	8.00	_____
Dual II Magnum	pt	13.57	1.0000	13.57	_____
Storm	pt	11.09	3.0000	33.27	_____
Cadre	oz	3.52	2.4400	8.59	_____
xxButoxone 200(2,4-D	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.41	1.5000	12.62	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.73	1.5000	4.10	_____
SEED/PLANTS					
Peanut Seed	lb	0.74	110.0000	81.40	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.68	6.0000	28.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.50	1.6246	20.31	_____
Self-Propelled	hour	12.50	0.2908	3.63	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR	hour	12.54	1.5324	19.22	_____
DIESEL FUEL					
Tractors	gal	3.30	17.5722	57.99	_____
Self-Propelled	gal	3.30	1.6470	5.44	_____
REPAIR & MAINTENANCE					
Implements	acre	9.96	1.0000	9.96	_____
Tractors	acre	9.82	1.0000	9.82	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
TOTAL DIRECT EXPENSES				675.93	_____
FIXED EXPENSES					
Implements	acre	31.40	1.0000	31.40	_____
Tractors	acre	59.85	1.0000	59.85	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____
TOTAL FIXED EXPENSES				101.48	_____
TOTAL SPECIFIED EXPENSES				777.41	_____

Note: Cost of production estimates are based on 2013 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, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	1.8000	990.00	_____
				-----	
TOTAL INCOME				990.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.67	1.0000	22.67	_____
FUNGICIDES	acre	161.98	1.0000	161.98	_____
HERBICIDES	acre	82.46	1.0000	82.46	_____
INSECTICIDES	acre	19.10	1.0000	19.10	_____
SEED/PLANTS	acre	81.40	1.0000	81.40	_____
ADJUVANTS	acre	28.08	1.0000	28.08	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2662	2.41	_____
OPERATOR LABOR	hour	12.50	1.9155	23.94	_____
UNALLOCATED LABOR	hour	12.54	1.5324	19.22	_____
DIESEL FUEL	gal	3.30	19.2193	63.43	_____
REPAIR & MAINTENANCE	acre	21.43	1.0000	21.43	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
				-----	
TOTAL DIRECT EXPENSES				675.93	_____
RETURNS ABOVE DIRECT EXPENSES				314.07	_____
TOTAL FIXED EXPENSES				101.48	_____
				-----	
TOTAL SPECIFIED EXPENSES				777.41	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				212.59	_____

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 300-450gal	60'	125hp	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 300-450gal	60'	125hp	0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	May			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Poast Plus	pt					1.5000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
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								1.91	1.62	1.53

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.02	0.93	0.62	1.55
Glyphosate 3lbs a.e	pt	8.00						0.15	8.15		8.15
Lime (Spread)	ton	48.00						0.90	48.90		48.90
Custom Apply Fert	acre	7.50						0.14	7.64		7.64
Phosphorus(46% P2O5)	cwt	10.32						0.19	10.51		10.51
Potash (60% K2O)	cwt	12.35						0.23	12.58		12.58
Bed-Rip/Disk Fold.	8R-38		2.36	0.50	1.64			0.07	4.57	2.81	7.38
Peanut Plt&Pre Rigid	8R-38		3.90	2.23	3.81			0.16	10.10	6.68	16.78
Peanut Seed	lb	81.40						1.27	82.67		82.67
Optimize LIFT	oz	7.99						0.12	8.11		8.11
Phorate	lb	15.00						0.23	15.23		15.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Dual II Magnum	pt	13.57						0.21	13.78		13.78
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.21	16.84		16.84
Cadre	oz	3.52						0.04	3.56		3.56
xxButoxone 200(2,4-D	pt	3.21						0.04	3.25		3.25
Crop Oil Conc.(Veg.)	pt	9.36						0.12	9.48		9.48
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	30.72						0.29	31.01		31.01
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.16	16.79		16.79
Cadre	oz	5.07						0.05	5.12		5.12
xxButoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Poast Plus	pt	12.62						0.12	12.74		12.74
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.08	8.20		8.20
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.16	0.05	0.24				0.45	0.31	0.76
Karate Z	oz	4.10						0.03	4.13		4.13
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	30.72						0.19	30.91		30.91
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.05	8.17		8.17
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Peanut Dig/Invertor	4R-38		6.01	2.13	4.19			0.04	12.37	7.06	19.43
Peanut Harvester	4R-38		35.72	12.57	21.03			0.22	69.54	62.18	131.72
Peanut Dump Cart	6-Row		10.00	2.35	6.98			0.06	19.39	12.52	31.91
Dry Peanuts	ton	25.92						0.08	26.00		26.00
Cleaning Peanuts	ton	27.54						0.09	27.63		27.63
Haul Peanuts	ton	26.10						0.08	26.18		26.18
TOTALS		538.74	63.43	21.43	45.57	0.00	6.76	675.93	101.48	777.41	

Note: Cost of production estimates are based on 2013 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, 2014

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	990.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.67	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	6.66	13.32	71.00	71.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.00	13.57	23.36	37.53	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	4.10	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.40	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	9.36	18.72	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	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	48.00	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	6.41	1.44	2.88	2.16	32.20
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	0.33	6.92	0.99	1.98	1.48	51.73
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	2.93	0.30	0.60	0.45	17.05
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.63	2.18	0.60	1.27	0.51	0.57
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	88.71	143.06	49.37	133.98	79.70	181.11
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-143.06	-49.37	-133.98	-79.70	808.89
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-231.77	-281.14	-415.12	-494.82	314.07

Note: Cost of production estimates are based on 2013 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, 2014

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	0.90	ton	-264 -366	-240 -341	-215 -316	-190 -292	-165 -267	-141 -242	-116 -217	-91 -193	-66 -168	-42 -143	-17 -118
60	1.08	ton	-198 -299	-168 -270	-139 -240	-109 -210	-79 -181	-50 -151	-20 -121	9 -92	39 -62	68 -32	98 -2
70	1.26	ton	-132 -233	-97 -199	-62 -164	-28 -129	6 -95	41 -60	75 -25	110 8	144 43	179 78	214 112
80	1.44	ton	-65 -167	-26 -127	13 -88	52 -48	92 -9	132 30	171 70	211 109	250 149	290 188	330 228
90	1.62	ton	0 -101	44 -56	89 -12	133 32	178 77	223 121	267 166	312 210	356 255	401 299	445 344
100	1.80	ton	66 -34	116 14	165 64	215 113	264 163	314 212	363 262	413 311	462 361	512 410	561 460
110	1.98	ton	132 31	187 85	241 140	296 194	350 249	405 303	459 358	513 412	568 466	622 521	677 575
120	2.16	ton	199 97	258 157	317 216	377 275	436 335	496 394	555 454	614 513	674 572	733 632	793 691
130	2.34	ton	265 163	329 228	394 292	458 356	522 421	587 485	651 549	715 614	780 678	844 743	908 807
140	2.52	ton	331 230	400 299	470 368	539 438	608 507	678 576	747 645	816 715	886 784	955 853	1024 923
150	2.70	ton	397 296	472 370	546 444	620 519	694 593	769 667	843 741	917 816	991 890	1066 964	1140 1038

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 2013 input prices.

Table 2.A Estimated costs per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch  
 All Areas, Mississippi, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	24.00	0.4300	10.32	_____
Potash (60% K2O)	cwt	23.75	0.5200	12.35	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.37	54.0000	19.98	_____
Artisan	oz	0.96	48.0000	46.08	_____
Provost	oz	2.01	32.0000	64.32	_____
Bravo Ultrex	lb	5.80	2.8000	16.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.00	4.0000	8.00	_____
Dual II Magnum	pt	13.57	1.0000	13.57	_____
Storm	pt	11.09	3.0000	33.27	_____
Cadre	oz	3.52	2.4400	8.59	_____
xxButoxone 200(2,4-D)	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.41	1.5000	12.62	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.73	1.5000	4.10	_____
SEED/PLANTS					
Peanut Seed	lb	0.74	110.0000	81.40	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.68	6.0000	28.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.50	1.6876	21.10	_____
Self-Propelled	hour	12.50	0.2908	3.63	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR					
	hour	12.54	1.5828	19.85	_____
DIESEL FUEL					
Tractors	gal	3.30	18.0359	59.52	_____
Self-Propelled	gal	3.30	1.6470	5.44	_____
REPAIR & MAINTENANCE					
Implements	acre	10.34	1.0000	10.34	_____
Tractors	acre	9.98	1.0000	9.98	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
TOTAL DIRECT EXPENSES				664.35	_____
FIXED EXPENSES					
Implements	acre	29.94	1.0000	29.94	_____
Tractors	acre	60.84	1.0000	60.84	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____
TOTAL FIXED EXPENSES				101.01	_____
TOTAL SPECIFIED EXPENSES				765.36	_____

Note: Cost of production estimates are based on 2013 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, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	1.8000	990.00	_____
				-----	
TOTAL INCOME				990.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.67	1.0000	22.67	_____
FUNGICIDES	acre	146.62	1.0000	146.62	_____
HERBICIDES	acre	82.46	1.0000	82.46	_____
INSECTICIDES	acre	19.10	1.0000	19.10	_____
SEED/PLANTS	acre	81.40	1.0000	81.40	_____
ADJUVANTS	acre	28.08	1.0000	28.08	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2982	2.70	_____
OPERATOR LABOR	hour	12.50	1.9785	24.73	_____
UNALLOCATED LABOR	hour	12.54	1.5828	19.85	_____
DIESEL FUEL	gal	3.30	19.6829	64.96	_____
REPAIR & MAINTENANCE	acre	21.97	1.0000	21.97	_____
INTEREST ON OP. CAP.	acre	6.76	1.0000	6.76	_____
				-----	
TOTAL DIRECT EXPENSES				664.35	_____
RETURNS ABOVE DIRECT EXPENSES				325.65	_____
TOTAL FIXED EXPENSES				101.01	_____
				-----	
TOTAL SPECIFIED EXPENSES				765.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				224.64	_____

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 300-450gal	60'	125hp	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 300-450gal	60'	125hp	0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	May			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Poast Plus	pt					1.5000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Artisan	oz					16.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60'	125hp	0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
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							1.97	1.68	2.27	1.58

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.02	0.93	0.62	1.55
Glyphosate 3lbs a.e	pt	8.00						0.15	8.15		8.15
Lime (Spread)	ton	48.00						0.90	48.90		48.90
Custom Apply Fert	acre	7.50						0.14	7.64		7.64
Phosphorus(46% P2O5)	cwt	10.32						0.19	10.51		10.51
Potash (60% K2O)	cwt	12.35						0.23	12.58		12.58
Bed-Rip/Disk Rigid	8R-30		4.49	0.91	3.13			0.13	8.66	5.16	13.82
Peanut Plt&Pre Rigid	8R-30		4.93	2.94	4.82			0.20	12.89	8.67	21.56
Peanut Seed	lb	81.40						1.27	82.67		82.67
Optimize LIFT	oz	7.99						0.12	8.11		8.11
Phorate	lb	15.00						0.23	15.23		15.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Dual II Magnum	pt	13.57						0.21	13.78		13.78
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.21	16.84		16.84
Cadre	oz	3.52						0.04	3.56		3.56
xxButoxone 200(2,4-D	pt	3.21						0.04	3.25		3.25
Crop Oil Conc.(Veg.)	pt	9.36						0.12	9.48		9.48
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	30.72						0.29	31.01		31.01
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.16	16.79		16.79
Cadre	oz	5.07						0.05	5.12		5.12
xxButoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Poast Plus	pt	12.62						0.12	12.74		12.74
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.08	8.20		8.20
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.16	0.05	0.24				0.45	0.31	0.76
Karate Z	oz	4.10						0.03	4.13		4.13
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	15.36						0.10	15.46		15.46
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.05	8.17		8.17
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Peanut Dig/Invertor	4R-30		7.61	2.69	5.31			0.05	15.66	8.93	24.59
Peanut Harvester	4R-30		32.49	11.43	19.12			0.20	63.24	55.50	118.74
Peanut Dump Cart	6-Row		10.00	2.35	6.98			0.06	19.39	12.52	31.91
Dry Peanuts	ton	25.92						0.08	26.00		26.00
Cleaning Peanuts	ton	27.54						0.09	27.63		27.63
Haul Peanuts	ton	26.10						0.08	26.18		26.18
TOTALS		523.38	64.96	21.97	47.28	0.00	6.76	664.35	101.01	765.36	

Note: Cost of production estimates are based on 2013 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, 2014

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	990.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.67	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	6.66	13.32	71.00	55.64	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.00	13.57	23.36	37.53	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	4.10	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.40	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	9.36	18.72	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	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	48.00	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	8.91	1.44	2.88	2.16	31.41
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	0.33	10.08	0.99	1.98	1.48	50.10
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	4.05	0.30	0.60	0.45	16.47
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.63	2.28	0.60	1.27	0.42	0.56
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	88.71	149.94	49.37	133.98	64.25	178.10
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-149.94	-49.37	-133.98	-64.25	811.90
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-238.65	-288.02	-422.00	-486.25	325.65

Note: Cost of production estimates are based on 2013 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, 2014

			-----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	0.90	ton	-253 -354	-228 -329	-203 -304	-178 -279	-154 -255	-129 -230	-104 -205	-79 -180	-55 -156	-30 -131	-5 -106
60	1.08	ton	-186 -287	-157 -258	-127 -228	-97 -198	-68 -169	-38 -139	-8 -109	20 -80	50 -50	80 -20	110 9
70	1.26	ton	-120 -221	-86 -187	-51 -152	-16 -117	17 -83	52 -48	87 -13	121 20	156 55	191 90	225 124
80	1.44	ton	-54 -155	-14 -115	24 -76	64 -36	104 3	143 42	183 82	222 121	262 161	302 201	341 240
90	1.62	ton	11 -89	56 -44	100 -0	145 44	190 89	234 133	279 178	323 222	368 267	412 311	457 356
100	1.80	ton	78 -22	127 26	177 76	226 125	276 175	325 224	375 274	424 323	474 373	523 422	573 472
110	1.98	ton	144 43	198 97	253 152	307 206	362 261	416 315	471 370	525 424	580 479	634 533	688 587
120	2.16	ton	210 109	270 169	329 228	388 287	448 347	507 406	567 466	626 525	685 584	745 644	804 703
130	2.34	ton	276 175	341 240	405 304	470 368	534 433	598 497	663 562	727 626	791 690	856 755	920 819
140	2.52	ton	343 242	412 311	481 380	551 450	620 519	689 588	759 658	828 727	897 796	966 865	1036 935
150	2.70	ton	409 308	483 382	557 456	632 531	706 605	780 679	854 753	929 828	1003 902	1077 976	1151 1050

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 2013 input prices.

Table 3.A Estimated costs per acre  
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch  
 All Areas, Mississippi, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	24.00	0.4300	10.32	_____
Potash (60% K2O)	cwt	23.75	0.5200	12.35	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.37	54.0000	19.98	_____
Artisan	oz	0.96	64.0000	61.44	_____
Provost	oz	2.01	32.0000	64.32	_____
Bravo Ultrex	lb	5.80	2.8000	16.24	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	2.00	4.0000	8.00	_____
Dual II Magnum	pt	13.57	1.0000	13.57	_____
Storm	pt	11.09	3.0000	33.27	_____
Cadre	oz	3.52	2.4400	8.59	_____
xxButoxone 200(2,4-D	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.41	1.5000	12.62	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	2.73	1.5000	4.10	_____
SEED/PLANTS					
Peanut Seed	lb	0.74	110.0000	81.40	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.68	6.0000	28.08	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT					
Optimize LIFT	oz	0.54	14.8000	7.99	_____
OPERATOR LABOR					
Tractors	hour	12.50	1.1856	14.83	_____
Self-Propelled	hour	12.50	0.2908	3.63	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR					
	hour	12.54	1.1812	14.82	_____
DIESEL FUEL					
Tractors	gal	3.30	12.8051	42.26	_____
Self-Propelled	gal	3.30	1.6470	5.44	_____
REPAIR & MAINTENANCE					
Implements	acre	7.96	1.0000	7.96	_____
Tractors	acre	7.14	1.0000	7.14	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	6.61	1.0000	6.61	_____
TOTAL DIRECT EXPENSES				645.13	_____
FIXED EXPENSES					
Implements	acre	26.87	1.0000	26.87	_____
Tractors	acre	43.55	1.0000	43.55	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____
TOTAL FIXED EXPENSES				80.65	_____
TOTAL SPECIFIED EXPENSES				725.78	_____

Note: Cost of production estimates are based on 2013 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, 2014

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	550.00	1.8000	990.00	_____
				-----	
TOTAL INCOME				990.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	22.67	1.0000	22.67	_____
FUNGICIDES	acre	161.98	1.0000	161.98	_____
HERBICIDES	acre	82.46	1.0000	82.46	_____
INSECTICIDES	acre	19.10	1.0000	19.10	_____
SEED/PLANTS	acre	81.40	1.0000	81.40	_____
ADJUVANTS	acre	28.08	1.0000	28.08	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
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	48.00	1.0000	48.00	_____
INOCULANT	acre	7.99	1.0000	7.99	_____
HAND LABOR	hour	9.06	0.2258	2.05	_____
OPERATOR LABOR	hour	12.50	1.4765	18.46	_____
UNALLOCATED LABOR	hour	12.54	1.1812	14.82	_____
DIESEL FUEL	gal	3.30	14.4521	47.70	_____
REPAIR & MAINTENANCE	acre	16.75	1.0000	16.75	_____
INTEREST ON OP. CAP.	acre	6.61	1.0000	6.61	_____
				-----	
TOTAL DIRECT EXPENSES				645.13	_____
RETURNS ABOVE DIRECT EXPENSES				344.87	_____
TOTAL FIXED EXPENSES				80.65	_____
				-----	
TOTAL SPECIFIED EXPENSES				725.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				264.22	_____

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Sprayer 300-450gal	60' 125hp		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 300-450gal	60' 125hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	May			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
xxButoxone 200(2,4-D	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Poast Plus	pt					1.5000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 125hp		0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Aug			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60' 125hp		0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
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							1.47	1.18	1.70	1.18

Note: Cost of production estimates are based on 2013 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, 2014

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.02	0.93	0.62	1.55
Glyphosate 3lbs a.e	pt	8.00						0.15	8.15		8.15
Lime (Spread)	ton	48.00						0.90	48.90		48.90
Custom Apply Fert	acre	7.50						0.14	7.64		7.64
Phosphorus(46% P2O5)	cwt	10.32						0.19	10.51		10.51
Potash (60% K2O)	cwt	12.35						0.23	12.58		12.58
Bed-Rip/Disk Fold.	12R-38		1.77	0.43	1.04			0.05	3.29	2.47	5.76
Peanut Plt&Pre Fold.	12R-38		2.60	2.57	2.54			0.12	7.83	6.46	14.29
Peanut Seed	lb	81.40						1.27	82.67		82.67
Optimize LIFT	oz	7.99						0.12	8.11		8.11
Phorate	lb	15.00						0.23	15.23		15.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Dual II Magnum	pt	13.57						0.21	13.78		13.78
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.21	16.84		16.84
Cadre	oz	5.07						0.06	5.13		5.13
xxButoxone 200(2,4-D	pt	3.21						0.04	3.25		3.25
Crop Oil Conc.(Veg.)	pt	9.36						0.12	9.48		9.48
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Tilt/ Bravo SE	oz	6.66						0.08	6.74		6.74
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	30.72						0.29	31.01		31.01
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Storm	pt	16.63						0.16	16.79		16.79
Cadre	oz	3.52						0.03	3.55		3.55
xxButoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Poast Plus	pt	12.62						0.12	12.74		12.74
Crop Oil Conc.(Veg.)	pt	9.36						0.09	9.45		9.45
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.08	8.20		8.20
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.15	16.23		16.23
Sprayer 300-450gal	60' 125hp		0.16	0.05	0.24				0.45	0.31	0.76
Karate Z	oz	4.10						0.03	4.13		4.13
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Artisan	oz	30.72						0.19	30.91		30.91
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Bravo Ultrex	lb	8.12						0.05	8.17		8.17
Sprayer 300-450gal	60' 125hp		0.33	0.10	0.48			0.01	0.92	0.62	1.54
Provost	oz	16.08						0.10	16.18		16.18
Peanut Dig/Invertor	6R-38		4.00	1.44	2.79			0.03	8.26	5.12	13.38
Peanut Harvester	6R-38		23.89	8.31	14.06			0.14	46.40	43.85	90.25
Peanut Dump Cart	6-Row		10.00	2.35	6.98			0.06	19.39	12.52	31.91
Dry Peanuts	ton	25.92						0.08	26.00		26.00
Cleaning Peanuts	ton	27.54						0.09	27.63		27.63
Haul Peanuts	ton	26.10						0.08	26.18		26.18
TOTALS		538.74	47.70	16.75	35.33	0.00	6.61	645.13	80.65	725.78	

Note: Cost of production estimates are based on 2013 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, 2014

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	990.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	22.67	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	6.66	13.32	71.00	71.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.00	13.57	24.91	35.98	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	4.10	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.40	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	9.36	18.72	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	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	48.00	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	4.54	1.44	2.88	2.16	23.83
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	0.33	5.03	0.99	1.98	1.48	37.89
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.20	0.30	0.60	0.45	12.10
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.63	2.12	0.62	1.25	0.51	0.48
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	88.71	139.51	50.94	132.41	79.70	153.86
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-139.51	-50.94	-132.41	-79.70	836.14
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-88.71	-228.22	-279.16	-411.57	-491.27	344.87

Note: Cost of production estimates are based on 2013 input prices.

\* Lease costs are based on hourly usage costs.

**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, 2014

			-----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	0.90	ton	-233 -314	-209 -289	-184 -265	-159 -240	-134 -215	-110 -190	-85 -166	-60 -141	-35 -116	-11 -91	13 -67
60	1.08	ton	-167 -248	-138 -218	-108 -188	-78 -159	-48 -129	-19 -99	10 -70	40 -40	69 -10	99 18	129 48
70	1.26	ton	-101 -182	-66 -147	-32 -112	2 -78	37 -43	71 -8	106 25	141 60	175 95	210 129	245 164
80	1.44	ton	-35 -115	4 -76	44 -36	83 2	123 42	162 82	202 121	242 161	281 200	321 240	360 280
90	1.62	ton	31 -49	75 -4	120 39	164 84	209 128	253 173	298 217	342 262	387 306	432 351	476 395
100	1.80	ton	97 16	146 66	196 115	245 165	295 214	344 264	394 313	443 363	493 412	542 462	592 511
110	1.98	ton	163 82	218 137	272 191	326 246	381 300	435 355	490 409	544 464	599 518	653 573	708 627
120	2.16	ton	229 149	289 208	348 268	408 327	467 386	526 446	586 505	645 565	705 624	764 683	823 743
130	2.34	ton	296 215	360 279	424 344	489 408	553 472	617 537	682 601	746 665	810 730	875 794	939 859
140	2.52	ton	362 281	431 351	501 420	570 489	639 558	708 628	778 697	847 766	916 836	986 905	1055 974
150	2.70	ton	428 348	502 422	577 496	651 570	725 645	799 719	874 793	948 867	1022 942	1096 1016	1171 1090

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 2013 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, 2014

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	274,000	300	8	13.64	12.50	45.01	28.54	86.05	109.25	195.31
Combine (300-349 hp)	325 hp	313,000	300	8	16.73	12.50	55.20	32.60	100.31	124.81	225.12
Combine (350-399 hp)	355 hp	344,000	300	8	18.27	12.50	60.29	35.83	108.62	137.17	245.79
Combine (400-449 hp)	425 hp	356,000	300	8	21.87	12.50	72.19	37.08	121.77	141.95	263.73
Combine (450-499hp)	475 hp	378,000	300	8	24.44	12.50	80.68	39.37	132.55	150.72	283.28
Cotton Stripper	173 hp	166,000	200	8	8.08	12.50	26.66	25.93	65.10	99.29	164.39
Tractor( 20-39hp)CB	MFWD 30	29,900	600	8	1.54	12.50	5.09	0.93	18.52	5.43	23.95
Tractor( 20-39hp)RB	MFWD 30	17,700	600	8	1.54	12.50	5.09	0.55	18.14	3.21	21.36
Tractor( 40-59hp)CB	2WD 50	35,100	600	8	2.57	12.50	8.49	1.09	22.08	6.37	28.46
Tractor( 40-59hp)CB	MFWD 50	37,500	600	8	2.57	12.50	8.49	1.17	22.16	6.81	28.97
Tractor( 40-59hp)RB	2WD 50	19,300	600	8	2.57	12.50	8.49	0.60	21.59	3.50	25.10
Tractor( 40-59hp)RB	MFWD 50	27,700	600	8	2.57	12.50	8.49	0.86	21.85	5.03	26.88
Tractor( 60-89hp)CB	2WD 75	43,400	600	8	3.86	12.50	12.73	1.35	26.59	7.88	34.47
Tractor( 60-89hp)CB	MFWD 75	49,200	600	8	3.86	12.50	12.73	1.53	26.77	8.93	35.71
Tractor( 60-89hp)RB	2WD 75	32,200	600	8	3.86	12.50	12.73	1.00	26.24	5.84	32.09
Tractor( 60-89hp)RB	MFWD 75	40,600	600	8	3.86	12.50	12.73	1.26	26.50	7.37	33.88
Tractor( 90-119hp)CB	2WD 105	62,100	600	8	5.40	12.50	17.83	1.94	32.27	11.27	43.55
Tractor( 90-119hp)CB	MFWD 105	73,400	600	8	5.40	12.50	17.83	2.29	32.62	13.33	45.95
Tractor( 90-119hp)RB	2WD 105	50,200	600	8	5.40	12.50	17.83	1.56	31.90	9.11	41.02
Tractor( 90-119hp)RB	MFWD 105	55,700	600	8	5.40	12.50	17.83	1.74	32.07	10.11	42.19
Tractor(120-139hp)CB	2WD 130	95,400	600	8	6.69	12.50	22.08	2.98	37.56	17.32	54.88
Tractor(120-139hp)CB	MFWD 130	106,000	600	8	6.69	12.50	22.08	3.31	37.89	19.25	57.14
Tractor(140-159hp)CB	2WD 150	130,000	600	8	7.72	12.50	25.47	4.06	42.04	23.60	65.65
Tractor(140-159hp)CB	MFWD 150	137,000	600	8	7.72	12.50	25.47	4.28	42.26	24.88	67.14
Tractor(160-179hp)CB	MFWD 170	148,000	600	8	8.75	12.50	28.87	4.62	46.00	28.19	74.19
Tractor(180-199hp)CB	MFWD 190	160,000	600	8	9.77	12.50	32.27	5.00	49.77	30.47	80.25
Tractor(200-249hp)CB	MFWD 225	218,000	600	8	11.58	12.50	38.21	6.81	57.53	41.52	99.05
Tractor(200-249hp)CB	Track 225	268,000	600	8	11.58	12.50	38.21	8.37	59.09	51.05	110.14
Tractor(250-349hp)CB	4WD 300	269,000	600	8	15.44	12.50	50.95	8.40	71.86	51.24	123.10
Tractor(250-349hp)CB	MFWD 300	242,000	600	8	15.44	12.50	50.95	7.56	71.02	46.09	117.11
Tractor(250-349hp)CB	Track 300	273,000	600	8	15.44	12.50	50.95	8.53	71.98	52.00	123.99
Tractor(350-449hp)CB	4WD 400	290,000	600	8	20.58	12.50	67.94	9.06	89.50	55.24	144.74
Tractor(350-449hp)CB	Track 400	340,000	600	8	20.58	12.50	67.94	10.62	91.06	64.76	155.83
Tractor(450-550hp)CB	4WD 500	346,000	600	8	25.73	12.50	84.92	10.81	108.24	65.91	174.15
Tractor(450-550hp)CB	Track 500	391,000	600	8	25.73	12.50	84.92	12.21	109.64	74.48	184.13
Utility Vehicle	800 CC	7,500	200	8	0.70	12.50	2.31	1.17	15.98	4.48	20.46
Utility Vehicle-mule	600 CC	6,200	200	8	0.50	12.50	1.65	0.96	15.11	3.70	18.82

## 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, 2014

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-----					
Backhoe	2WD Cab	73,000	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30(350)	350,000	200	8	18.01	0.327	7.05	19.46	17.90	44.42	68.53	112.96
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.55	11.16	10.75	27.47	41.16	68.64
Cotton Picker	4R-38(350)	406,000	200	8	18.01	0.257	5.55	15.32	16.35	37.23	62.59	99.83
Cotton Picker	4R2x1(350)	413,000	200	8	18.01	0.172	3.71	10.24	11.11	25.07	42.56	67.64
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	4.70	13.16	15.85	33.72	60.70	94.42
Cotton Picker	6R-38(355)	478,000	200	8	18.27	0.172	3.71	10.39	12.86	26.97	49.26	76.23
Cotton Picker/Module	4R-38(365)	515,000	200	8	18.78	0.257	5.55	15.98	20.74	42.28	79.40	121.68
Cotton Picker/Module	6R-30(365)	608,000	200	8	18.78	0.218	4.70	13.53	20.73	38.97	79.36	118.34
Cotton Picker/Module	6R-30(500)	672,000	200	8	25.73	0.218	4.70	18.53	22.91	46.15	87.72	133.88
Cotton Picker/Module	6R-38(365)	571,000	200	8	18.78	0.172	3.71	10.68	15.37	29.77	58.84	88.62
Cotton Picker/Module	6R-38(500)	672,000	200	8	25.73	0.172	3.71	14.63	18.09	36.44	69.25	105.70
Dry Applicator SP	70'300cuft	270,000	350	8	16.98	0.015	0.25	0.84	0.21	1.32	1.39	2.71
Sprayer 110Gal	30' 50hp	43,300	350	8	2.41	0.035	0.60	0.28	0.08	0.96	0.52	1.48
Sprayer 300-450gal	60' 125hp	103,000	350	8	5.66	0.017	0.30	0.32	0.09	0.72	0.62	1.34
Sprayer 300-450gal	80' 125hp	103,000	350	8	6.43	0.013	0.22	0.28	0.07	0.57	0.46	1.04
Sprayer 600-750gal	60' 175hp	172,000	350	8	9.00	0.017	0.30	0.52	0.16	0.98	1.03	2.02
Sprayer 600-825gal	80' 175hp	174,000	350	8	11.81	0.013	0.22	0.51	0.12	0.86	0.78	1.64
Sprayer 600-825gal	90' 250hp	240,000	350	8	12.73	0.011	0.20	0.49	0.15	0.84	0.96	1.80
Sprayer 800gal	100' 250hp	242,000	350	8	14.15	0.010	0.18	0.49	0.13	0.81	0.87	1.68
Sprayer 800gal	80' 250hp	237,000	350	8	12.86	0.013	0.22	0.56	0.16	0.95	1.07	2.02
Sprayer 1000-1400gal	90' 275hp	286,000	350	8	14.15	0.010	0.18	0.49	0.16	0.83	1.03	1.87
Sprayer 1000gal	100' 300hp	288,000	350	8	15.44	0.010	0.18	0.53	0.16	0.88	1.04	1.92
Sprayer 1200+gal	120' 300hp	289,000	350	8	15.44	0.008	0.15	0.44	0.13	0.73	0.87	1.60
Utility Vehicle	20'	8,830	200	8	0.70	0.052	0.90	0.12	0.07	1.09	0.27	1.37
Utility Vehicle	75"ropewic	8,750	200	8	0.50	0.170	2.90	0.28	0.23	3.42	0.89	4.31

## 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, 2014

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-----							
Subsoiler	5 shank	MFWD 225	7,870	100	15	0.122	1.52	4.67	0.32	0.83	7.36	0.75	5.08	13.19
Subsoiler low-till	6 shank	MFWD 225	10,500	100	15	0.102	1.27	3.90	0.35	0.69	6.23	0.84	4.24	11.32
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.95	2.92	0.50	0.52	4.90	1.18	3.17	9.26

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, 2014

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Folicur 3.6	oz	1.08
Crop Oil Conc.(Pet.)	pt	3.72	Headline EC	oz	2.81
Crop Oil Conc.(Veg.)	pt	4.68	Headline SC	oz	2.99
Drift/Defoamer	pt	5.27	Manzate 75 DF	lb	5.25
Spreader Sticker	pt	3.54	Moncut 70 DF	lb	24.85
Surfactant	pt	3.68	Prevail	lb	28.25
CLEANING			Provost	oz	2.01
Cleaning Peanuts	ton	18.00	Quadris	oz	2.53
CROP CONSULTANT			Quilt	pt	19.55
Crop Consultant	acre	7.00	Quilt XCEL	pt	26.16
Rice Consultant	acre	7.00	Ridomil Gold	oz	6.22
CUSTOM FERTILIZE			Ridomil Gold PC GR	lb	2.42
App Fert by Air	cwt	7.00	Rovral 4F	pt	16.88
App Fert by Air(Min)	appl	7.00	Stiletto	oz	0.56
Custom Apply Fert	acre	7.50	Stratego	pt	22.50
CUSTOM LIME			Stratego YLD	oz	4.46
Lime (Spread)	ton	48.00	Terrachlor 2EC	pt	1.87
CUSTOM PLANT			Tilt 3.6 EC	oz	0.90
Custom Plant Air	cwt	7.00	Tilt/ Bravo SE	oz	0.37
Custom Plant Ground	acre	13.00	Uniform	oz	4.95
CUSTOM SPRAY			Vitavax RTU-Thiram	oz	0.35
App by Air ( 2 gal)	appl	4.00	GINNING		
App by Air ( 3 gal)	appl	5.00	Gin & Haul	lb	0.11
App by Air ( 5 gal)	appl	6.00	GROWTH REGULATORS		
App by Air (10 gal)	appl	7.75	Early Harvest PGR	oz	1.55
Custom Spray Ground	acre	7.00	Mepex	oz	0.08
Custom Spray Self Pr	acre	6.25	Mepex Gin Out	oz	0.14
Custom Spray Tractor	acre	7.50	Mepichlor 4.2%	oz	0.08
DRYING			Mepiquat	oz	0.10
Dry Corn	bu	0.19	Mepiquat Chloride	oz	0.08
Dry Grain Sorghum	cwt	0.25	Mepiquat Extra	oz	0.08
Dry Peanuts	ton	24.00	Pentia	pt	6.09
Dry Rice	bu	0.40	Pix Plus	oz	0.15
ERADICATION FEE			Stance	oz	1.18
Eradication	acre	1.00	SuperBoll	pt	3.00
FERTILIZERS			HARVEST AIDS		
Amm Sulfate (21% N)	cwt	17.75	Adios	oz	1.29
Amm Sulfate dry/mix	lb	0.20	Aim 2EC	oz	6.25
Boron 15G	lb	0.75	Ammonium Sulfate	lb	0.20
Boron Plus	pt	4.25	CottonQuik	pt	4.25
DAP	cwt	25.75	Def 6	pt	8.17
Fert 10-34-0	cwt	28.25	Def/Folex	pt	8.63
Fert 11-37-0	cwt	33.50	Defol 3	gal	3.45
Fert 30-0-0-5	cwt	18.00	Defol 5	gal	5.52
Fert 41-0-0-4	cwt	20.50	Defol 750	pt	1.26
Lime	ton	38.00	Dropp SC	oz	1.46
Phosphorus(46% P2O5)	cwt	24.00	ET	pt	44.69
Potash (60% K2O)	cwt	23.75	Ethephon 6E	pt	3.00
Sulfur 90%	lb	0.30	Finish 6	pt	8.44
Sulfur Plus	pt	2.60	First Pick	pt	3.12
SuperMax AMS	pt	2.70	Folex 6EC	pt	9.08
UAN (32% N)	cwt	19.50	Freefall SC	oz	1.41
UAN + Sulfur (28%)	cwt	19.50	Ginstar EC	pt	26.86
Urea, Solid (46% N)	cwt	22.60	Gramoxone SL	oz	0.22
Zinc Plus	pt	3.00	Paraquat	oz	0.22
Zinc Sulfate 31%	lb	0.50	Prep	pt	3.25
FUNGICIDES			Sharpen	oz	5.16
Abound	pt	28.50	Shed-a-leaf	gal	3.60
Allegiance Flowable	pt	58.75	Sodium Chlorate 3L	gal	3.45
Apron Maxx RTA	oz	0.74	Sodium Chlorate 5L	gal	5.52
Apron Maxx RTA+Moly	pt	13.63	TDZ SC	oz	1.41
Apron XL LS	oz	7.93	Thidiazuron 4lb	oz	1.41
Artisan	oz	0.96	Tribufos 6lb	pt	8.63
Bravo Ultrex	lb	5.80	HAULING		
Bravo Weather Stick	pt	4.29	Haul Corn	bu	0.23
Captan 50 WP	lb	6.00	Haul Peanuts	ton	14.50
Cotton Seed Trt.	acre	20.00	Haul Rice	bu	0.35
CruiserMaxx	oz	4.07	Haul Sorghum	bu	0.25
Dithane F-45	qt	8.63	Haul Soybeans	bu	0.27
Dithane Rainshield	lb	2.84	Haul Wheat	bu	0.26
Enable 2F	oz	1.95			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2014(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
HERBICIDES			Grandstand R	qt	28.38
2,4-D Amine 4	pt	2.94	Guardsman Max	pt	6.71
2,4-D Weedar 64	pt	2.28	Halex GT	pt	5.87
AAtrex 4L	pt	2.22	Halomax	oz	18.50
AAtrex NINE-0	lb	4.22	Harmony Extra SG	oz	11.80
Accent Q	oz	32.47	Harmony Extra XP	oz	14.40
Aim 2EC	oz	6.25	Harness XTRA	pt	6.28
Assure II	oz	0.70	Hoelon 3EC	pt	11.03
Atrazine 4L	pt	1.97	Impact	oz	16.83
Atrazine 90DF	lb	4.64	Karmex XP	lb	6.50
Axial XL	oz	0.98	Lariat	qt	7.46
Axiom 68DF	oz	1.65	Laudis	oz	4.88
Banvel	pt	7.69	Layby Pro	qt	14.27
Basagran	pt	11.88	Lexar	pt	6.54
Basis	oz	17.95	Liberty 280	oz	0.63
Beyond	oz	3.76	Linex 4L	pt	9.99
Bicep II Magnum	qt	11.22	Londax 60DF	oz	16.25
Bicep Lite Magnum	pt	7.12	Lorox 50DF	lb	18.70
Blazer Ultra	pt	9.37	Makaze	pt	1.88
Bolero 8EC	pt	7.25	MSMA 6.6	pt	3.16
Boundary 6.5 EC	9.37	9.37	MSMA6 Plus	pt	2.63
Buccaneer Plus	pt	2.19	Newpath 2SL	oz	3.24
Bullet	pt	3.73	Osprey	oz	3.08
Butyrac 175 (2,4-D)	pt	3.24	Outlook	pt	14.34
Butyrac 200 (2,4-DB)	pt	3.92	Paraquat	oz	0.22
Cadre	oz	3.52	Parazone 3SL	oz	0.26
Callisto 4SC	oz	5.28	Parrlay	pt	8.13
Canopy 75%	oz	2.50	Peak Accu Pak	oz	14.46
Canopy EX	oz	7.38	Permit 75 DF	oz	19.25
Caparol 4L	pt	2.68	Poast 1.53	pt	11.26
Capreno	oz	5.71	Poast Plus	pt	8.41
Celebrity Plus	lb	84.50	Prefix	pt	6.13
Clarity	pt	10.19	Propimax EC	pt	18.13
Classic	oz	15.28	Prowl 3.3 EC	pt	5.51
Clearpath	lb	49.11	Prowl H20	pt	5.04
Clincher SF	oz	2.15	Pursuit 2S	oz	2.98
Cobra 2EC	oz	1.45	Python WDG	oz	12.55
Command 3ME	pt	17.11	Quinstar	lb	44.50
Cornerstone Plus	pt	1.56	Raptor	oz	4.05
Cotoran 4L	pt	5.80	Reflex 2LC	pt	7.51
Cotton Pro	pt	3.44	Regiment 80WP	oz	38.57
Credit Extra	pt	1.80	Remedy Ultra	pt	8.22
Direx 4L	pt	3.74	Resolve SG	oz	7.95
Diuron 4L	pt	3.49	Resource .86EC	pt	27.09
Diuron 80 DF	lb	4.88	Ricebeaux	pt	5.37
Diuron 80%	lb	4.88	RicePro	pt	4.70
Dual II Magnum	pt	13.57	Riceshot	pt	3.62
Dual Magnum	pt	12.62	Ricestar HT	pt	21.20
Duet	pt	4.99	Rifel	pt	8.24
Envoke	oz	88.37	Roundup Power Max	oz	0.19
Evik DF 80W	lb	10.60	Roundup PowerMax	pt	3.00
Exceed	oz	10.71	Roundup WeatherMax	oz	0.25
Expert	pt	4.16	Roundup WeatherMax	pt	4.01
Facet L	pt	12.72	Salvo	pt	4.36
Finesse	oz	14.16	Scepter 70 DG	oz	3.99
First Rate	oz	37.80	Select Max	pt	11.94
First Shot	oz	7.68	Sequence	pt	5.07
Flexstar	pt	11.37	Simazine 4L	pt	2.57
Frontier 6.0	oz	0.63	Stalwart	pt	6.56
Fultime	pt	5.21	Stam 80 EDF	lb	7.95
Fusilade DX	oz	1.15	Stam M4	qt	7.74
Fusion	pt	27.38	Staple LX	oz	8.55
Glyfos	pt	1.66	Steadfast	oz	17.20
Glyfos Xtra	pt	1.44	Sterling Blue	pt	9.81
Glyphosate 3lbs a.e	pt	2.00	Storm	pt	11.09
Glyphosate 3lbs a.e	oz	0.13	Strada WG	oz	6.30
Glystar Plus	pt	1.56	Strongarm	oz	51.20
Goal 2XL	pt	10.00	Superwham	qt	8.31
Gramonone SL 2.0	oz	0.22			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2014

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Suprend	lb	12.74	Malathion 5E	pt	4.76
Surpass EC	qt	25.00	Malathion 8E	pt	5.50
Synchrony XP	oz	10.98	Methyl Parathion 4	pt	5.79
Touchdown Total	qt	5.93	Monitor 4	pt	16.33
Treflan 4D	pt	3.34	Mustang Max	oz	1.60
Tricor DF	lb	14.75	Oberon 4 SC	pt	76.19
Trifluralin 4EC	pt	3.28	Orthene 90S	lb	6.50
Valor SX	oz	5.49	Pennacap-M	pt	6.71
Valor XLT	oz	4.06	Phorate	lb	3.00
Verdict	oz	1.51	Pounce 25WP	lb	12.77
Zidua	oz	7.27	Prolex	oz	2.62
Zorial Rapid 80DF	lb	13.99	Respect .8EC	pt	33.79
INOCULANT			Sevin 4F	pt	6.01
Nitrastick	lbseed	0.02	Sevin 80S	lb	7.35
Nitro Fix	lbseed	0.03	Sevin XLR Plus	qt	12.39
Optimize LIFT	oz	0.54	Sniper	oz	1.05
INSECT SCOUTING			Steward	pt	29.30
Insect Scouting	acre	7.00	Temik 15G Grit	lb	4.00
INSECTICIDES			Temik 15G Gypsum	lb	4.00
Acephate 90%	lb	6.68	Thimet 20-G Lock N L	lb	3.50
Acephate 90SP	lb	6.85	Thionex 3 EC	pt	4.46
Acramite-4SC	oz	1.91	Thionex 50W	lb	10.51
Asana .66 XL	oz	0.72	Tombstone Helios	pt	43.75
Aztec 2.1% G	lb	3.64	Tracer 4SC	oz	8.17
Baythroid XL	oz	2.15	Trimax Pro	oz	1.85
Bidrin 8WM	oz	0.98	Tundra	oz	0.78
Bidrin XP	oz	0.78	Vydate C-LV	oz	0.73
Bifenthrin	oz	0.78	Zeal Miticid I	oz	17.83
Bifenture 2EC	pt	12.50	Zephyr	oz	0.78
Brigade EC	pt	14.01	IRRIGATION SUPPLIES		
Brigade WSB	lb	22.22	Roll-Out Pipe	ft	0.26
Capture 2EC	oz	1.76	SEED/PLANTS		
Capture LFR	oz	2.15	Corn Seed BtRR	thous	3.21
Carbaryl 4L	pt	5.27	Corn Seed Conv.	thous	2.53
Carbine 50WG	oz	5.25	Corn Seed RR2	thous	3.05
Centric 40WG	oz	4.70	Corn Seed VT3	thous	3.48
Comite 1l	pt	8.21	Corn Seed VT3Pro	thous	3.45
Confirm 2F	oz	2.06	Cotton Seed B2RF	thous	0.72
Counter 15G	lb	2.55	Cotton Seed LLB2	thous	1.17
Cruiser Maxx Rice	lbseed	0.129	Peanut Seed	lb	0.74
Curacron 8E	pt	10.78	Rice Clearfield	lb	0.99
Cypermethrin	oz	0.55	Rice Clearfield Hyb	lb	6.12
Denim 0.16 EC	pt	32.63	Rice Conv. Hybrid	lb	5.80
Diamond .83EC	pt	14.83	Rice Seed (Levees)	lb	0.44
Dimethoate 4E	pt	6.24	Rice Seed CF(Levees)	lb	0.99
Dimilin 2L	oz	2.02	Rice Seed CFH(Levee)	lb	6.12
Dipel DF	lb	12.25	Rice Seed Conv.	lb	0.44
Dipel ES	pt	4.63	Sorghum Concept	lb	2.11
Discipline 2 EC	oz	0.78	Soybean Seed LL	lb	1.03
Endigo ZC	pt	26.88	Soybean Seed RR2	lb	1.11
Fanfare 2EC	oz	0.78	Wheat Seed Private	lb	0.37
Force 3G	lb	6.25	SURVEY & MARK LEVEES		
Furadan 4F	pt	9.81	Survey & Mark Levees	acre	4.50
Furadan 4FLFR	pt	9.81	Survey & Mark Levees	acre	4.50
Gaicho 600	oz	5.86	TECHNOLOGY FEE		
Hero	pt	22.50	B2 Cot Tech Fee	thous	0.76
Holster	pt	14.38	B2 Cot Tech Fee	cap/ac	31.91
Imidan 70 WSB	oz	0.74	B2RF Cot Tech Fee	thous	1.49
Incidental Pest Trt	acre	12.00	B2RF Cot Tech Fee	cap/ac	62.69
Intrepid 2F	oz	1.84	LLB2 Cot Tech Fee	thous	0.76
Intruder 70WSP	oz	9.65	RF Cot Tech Fee	thous	1.04
Karate Z	oz	2.73	RF Cot Tech Fee	cap/ac	43.66
Kelthane MF 4EC	pt	5.03	WRF Cot Tech Fee	thous	1.45
Lannate LV	pt	9.72	WS Cotton Tech Fee	cap/ac	24.00
Lannate SP	oz	1.68			
Larvin 3.2	oz	0.60			
Leverage 2.7	oz	1.61			
Lorsban 15G	lb	2.15			
Lorsban 4E	pt	5.63			

Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2014

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.30
Gasoline	gal	3.30
LP Gas	gal	1.59
INTEREST RATES		
Short-term	%	3.75
Intermediate-term	%	4.50

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2014

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.50
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, 2014

	Unit	Futures Contract Month	Futures Contract Price <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>c</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
Corn	bu	Dec '14	4.80	-0.2760	4.53	2.09	4.53
Cotton Lint	lb	Dec '14	0.800	-0.0147	0.785	.520	0.79
Cottonseed	lb						0.107 <sup>f</sup>
Grain Sorghum	bu				4.30	3.60	4.30
Peanuts	ton				550.00	355.00	550.00
Soybeans	bu	Nov '14	11.68	-0.2710	11.41	5.21	11.41
Rice	bu	Sep '14	6.62	-0.7510	5.86	3.02	5.86
Wheat	bu	Jul '14	6.93	-0.6441	6.29	2.69	6.29

<sup>a</sup> Average of the futures contract month closings in October.

<sup>b</sup> The basis is computed by subtracting the 2001-2013 average near futures contract month closings in October from the daily spot cash prices reported in October.  
Sources: Agricultural Marketing Service, Market News, USDA.

<sup>c</sup> 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.

<sup>d</sup> Average Mississippi loan rate for the 2013 crop year for soybeans, corn, grain sorghum, and wheat. 2013 national average loan rate for cotton. 2013 Mississippi stored loan rate for long grain rice. 2013 national average loan rate for peanuts.

<sup>e</sup> Price used in the 2014 MAFES Planning Budgets.

<sup>f</sup> Cottonseed price is the marketing year average price averaged over the years 2009-2013, Agricultural Prices Summary, USDA.

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, 2014

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				0.18	11.41	43.18
Well & Pump, 1/4 CP	each			2.89				0.05	2.94	8.12
Engine, 1/4 CP, 65	each									8.60
June Irr. 3app@.75"	ac-in		11.09	1.26				0.19	12.54	12.54
July Irr. 4app@.75"	ac-in		14.79	1.68				0.21	16.68	16.68
Aug Irr. 3app@.75"	ac-in		11.09	1.26				0.12	12.47	12.47
TOTALS		0.00	36.97	18.32	1.84	0.00	0.78		57.91	59.90

Note: Cost of production estimates are based on 2013 input prices.

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