

**PEANUTS
2013
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2012-09**

December 2012

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 2013 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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2013 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 2012. (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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.4300	12.60	_____
Potash (60% K2O)	cwt	29.80	0.5200	15.50	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.38	54.0000	20.52	_____
Artisan	oz	0.96	64.0000	61.44	_____
Provost	oz	2.18	32.0000	69.76	_____
Bravo Ultrex	lb	5.48	2.8000	15.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	4.0000	7.16	_____
Dual II Magnum	pt	14.43	1.0000	14.43	_____
Storm	pt	10.62	3.0000	31.86	_____
Cadre	oz	3.65	2.4400	8.91	_____
Butoxone 200(2,4-D	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.42	1.5000	12.63	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	3.15	1.5000	4.72	_____
SEED/PLANTS					
Peanut Seed	lb	1.13	110.0000	124.30	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.34	6.0000	26.04	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	0.70	14.8000	10.36	_____
OPERATOR LABOR					
Tractors	hour	11.71	1.6246	19.02	_____
Self-Propelled	hour	11.71	0.2908	3.46	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR	hour	11.75	1.5324	18.01	_____
DIESEL FUEL					
Tractors	gal	3.50	17.5722	61.49	_____
Self-Propelled	gal	3.50	1.6470	5.77	_____
REPAIR & MAINTENANCE					
Implements	acre	9.57	1.0000	9.57	_____
Tractors	acre	9.39	1.0000	9.39	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	8.53	1.0000	8.53	_____
TOTAL DIRECT EXPENSES				727.85	_____
FIXED EXPENSES					
Implements	acre	32.98	1.0000	32.98	_____
Tractors	acre	60.12	1.0000	60.12	_____
Self-Propelled	acre	10.72	1.0000	10.72	_____
TOTAL FIXED EXPENSES				103.82	_____
TOTAL SPECIFIED EXPENSES				831.67	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	1.8000	1035.00	_____

TOTAL INCOME				1035.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	28.10	1.0000	28.10	_____
FUNGICIDES	acre	167.06	1.0000	167.06	_____
HERBICIDES	acre	81.41	1.0000	81.41	_____
INSECTICIDES	acre	19.72	1.0000	19.72	_____
SEED/PLANTS	acre	124.30	1.0000	124.30	_____
ADJUVANTS	acre	26.04	1.0000	26.04	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	10.36	1.0000	10.36	_____
HAND LABOR	hour	9.06	0.2662	2.41	_____
OPERATOR LABOR	hour	11.71	1.9155	22.48	_____
UNALLOCATED LABOR	hour	11.75	1.5324	18.01	_____
DIESEL FUEL	gal	3.50	19.2193	67.26	_____
REPAIR & MAINTENANCE	acre	20.61	1.0000	20.61	_____
INTEREST ON OP. CAP.	acre	8.53	1.0000	8.53	_____

TOTAL DIRECT EXPENSES				727.85	_____
RETURNS ABOVE DIRECT EXPENSES				307.15	_____
TOTAL FIXED EXPENSES				103.82	_____

TOTAL SPECIFIED EXPENSES				831.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				203.33	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					
Butoxone 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					
Butoxone 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	2.18	1.53

Note: Cost of production estimates are based on 2012 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, 2013

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		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Glyphosate 3lbs a.e	pt	7.16						0.15	7.31		7.31
Lime (Spread)	ton	45.00						0.96	45.96		45.96
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
Phosphorus(46% P2O5)	cwt	12.60						0.27	12.87		12.87
Potash (60% K2O)	cwt	15.50						0.33	15.83		15.83
Bed-Rip/Disk Fold.	8R-38		2.50	0.47	1.54			0.08	4.59	2.82	7.41
Peanut Plt&Pre Rigid	8R-38		4.13	2.16	3.63			0.18	10.10	6.79	16.89
Peanut Seed	lb	124.30						2.20	126.50		126.50
Optimize LIFT	oz	10.36						0.18	10.54		10.54
Phorate	lb	15.00						0.27	15.27		15.27
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Dual II Magnum	pt	14.43						0.26	14.69		14.69
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Tilt/ Bravo SE	oz	6.84						0.12	6.96		6.96
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.23	16.16		16.16
Cadre	oz	3.65						0.05	3.70		3.70
Butoxone 200(2,4-D	pt	3.21						0.05	3.26		3.26
Crop Oil Conc.(Veg.)	pt	8.68						0.12	8.80		8.80
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	30.72						0.33	31.05		31.05
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.17	16.10		16.10
Cadre	oz	5.26						0.06	5.32		5.32
Butoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Poast Plus	pt	12.63						0.13	12.76		12.76
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.08	7.75		7.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.17	0.05	0.22				0.44	0.32	0.76
Karate Z	oz	4.72						0.03	4.75		4.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	30.72						0.22	30.94		30.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.05	7.72		7.72
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Peanut Dig/Invertor	4R-38		6.37	2.00	3.92			0.04	12.33	7.08	19.41
Peanut Harvester	4R-38		37.88	12.11	19.70			0.25	69.94	63.79	133.73
Peanut Dump Cart	6-Row		10.61	2.22	6.53			0.07	19.43	12.62	32.05
Dry Peanuts	ton	25.92						0.09	26.01		26.01
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.09	26.19		26.19
TOTALS		588.55	67.26	20.61	42.90	0.00	8.53	727.85	103.82	831.67	

Note: Cost of production estimates are based on 2012 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, 2013

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	1035.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	28.10	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	6.84	13.68	73.27	73.27	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.16	14.43	22.79	37.03	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	4.72	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124.30	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	8.68	17.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	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	10.36	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.46	6.09	1.38	2.76	2.06	30.15
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	0.35	7.33	1.05	2.10	1.57	54.86
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	2.83	0.30	0.60	0.45	16.33
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.88	3.33	0.68	1.42	0.58	0.64
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	90.05	190.51	48.56	134.54	82.65	181.54
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-190.51	-48.56	-134.54	-82.65	853.46
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-280.56	-329.12	-463.66	-546.31	307.15

Note: Cost of production estimates are based on 2012 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, 2013

PRODUCT			-----PERCENT-----										
			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			-----PRODUCT PRICE-----										
			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	0.90	ton	-299	-273	-248	-222	-196	-170	-144	-118	-92	-66	-41
			-403	-377	-351	-326	-300	-274	-248	-222	-196	-170	-144
60	1.08	ton	-230	-199	-168	-137	-105	-74	-43	-12	18	49	80
			-333	-302	-271	-240	-209	-178	-147	-116	-85	-54	-23
70	1.26	ton	-160	-124	-88	-51	-15	20	56	93	129	165	201
			-264	-228	-191	-155	-119	-83	-46	-10	25	61	97
80	1.44	ton	-90	-49	-8	33	74	116	157	198	240	281	323
			-194	-153	-111	-70	-29	12	53	95	136	177	219
90	1.62	ton	-21	25	71	118	165	211	258	304	351	397	444
			-125	-78	-31	14	61	107	154	200	247	294	340
100	1.80	ton	48	100	151	203	255	307	358	410	462	514	565
			-55	-3	48	99	151	203	255	306	358	410	462
110	1.98	ton	118	174	231	288	345	402	459	516	573	630	687
			14	71	128	184	241	298	355	412	469	526	583
120	2.16	ton	187	249	311	373	436	498	560	622	684	746	808
			83	145	208	270	332	394	456	518	580	642	704
130	2.34	ton	257	324	391	459	526	593	660	728	795	862	930
			153	220	288	355	422	489	557	624	691	758	826
140	2.52	ton	326	399	471	544	616	689	761	834	906	979	1051
			223	295	368	440	512	585	657	730	802	875	947
150	2.70	ton	396	474	551	629	707	784	862	939	1017	1095	1172
			292	370	448	525	603	680	758	836	913	991	1069

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 2012 input prices.

Table 2.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	29.30	0.4300	12.60	_____
Potash (60% K2O)	cwt	29.80	0.5200	15.50	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.38	54.0000	20.52	_____
Artisan	oz	0.96	48.0000	46.08	_____
Provost	oz	2.18	32.0000	69.76	_____
Bravo Ultrex	lb	5.48	2.8000	15.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	4.0000	7.16	_____
Dual II Magnum	pt	14.43	1.0000	14.43	_____
Storm	pt	10.62	3.0000	31.86	_____
Cadre	oz	3.65	2.4400	8.91	_____
Butoxone 200(2,4-D	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.42	1.5000	12.63	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	3.15	1.5000	4.72	_____
SEED/PLANTS					
Peanut Seed	lb	1.13	110.0000	124.30	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.34	6.0000	26.04	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	0.70	14.8000	10.36	_____
OPERATOR LABOR					
Tractors	hour	11.71	1.6876	19.76	_____
Self-Propelled	hour	11.71	0.2908	3.46	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR					
	hour	11.75	1.5828	18.60	_____
DIESEL FUEL					
Tractors	gal	3.50	18.0359	63.12	_____
Self-Propelled	gal	3.50	1.6470	5.77	_____
REPAIR & MAINTENANCE					
Implements	acre	9.95	1.0000	9.95	_____
Tractors	acre	9.56	1.0000	9.56	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	8.53	1.0000	8.53	_____
TOTAL DIRECT EXPENSES				716.29	_____
FIXED EXPENSES					
Implements	acre	31.56	1.0000	31.56	_____
Tractors	acre	61.14	1.0000	61.14	_____
Self-Propelled	acre	10.72	1.0000	10.72	_____
TOTAL FIXED EXPENSES				103.42	_____
TOTAL SPECIFIED EXPENSES				819.71	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	1.8000	1035.00	_____

TOTAL INCOME				1035.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	28.10	1.0000	28.10	_____
FUNGICIDES	acre	151.70	1.0000	151.70	_____
HERBICIDES	acre	81.41	1.0000	81.41	_____
INSECTICIDES	acre	19.72	1.0000	19.72	_____
SEED/PLANTS	acre	124.30	1.0000	124.30	_____
ADJUVANTS	acre	26.04	1.0000	26.04	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	10.36	1.0000	10.36	_____
HAND LABOR	hour	9.06	0.2982	2.70	_____
OPERATOR LABOR	hour	11.71	1.9785	23.22	_____
UNALLOCATED LABOR	hour	11.75	1.5828	18.60	_____
DIESEL FUEL	gal	3.50	19.6829	68.89	_____
REPAIR & MAINTENANCE	acre	21.16	1.0000	21.16	_____
INTEREST ON OP. CAP.	acre	8.53	1.0000	8.53	_____

TOTAL DIRECT EXPENSES				716.29	_____
RETURNS ABOVE DIRECT EXPENSES				318.71	_____
TOTAL FIXED EXPENSES				103.42	_____

TOTAL SPECIFIED EXPENSES				819.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				215.29	_____

Note: Cost of production estimates are based on 2012 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, 2013

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				
Butoxone 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				
Butoxone 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 2012 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, 2013

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		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Glyphosate 3lbs a.e	pt	7.16						0.15	7.31		7.31
Lime (Spread)	ton	45.00						0.96	45.96		45.96
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
Phosphorus(46% P2O5)	cwt	12.60						0.27	12.87		12.87
Potash (60% K2O)	cwt	15.50						0.33	15.83		15.83
Bed-Rip/Disk Rigid	8R-30		4.76	0.86	2.93			0.15	8.70	5.19	13.89
Peanut Plt&Pre Rigid	8R-30		5.23	2.88	4.60			0.23	12.94	8.86	21.80
Peanut Seed	lb	124.30						2.20	126.50		126.50
Optimize LIFT	oz	10.36						0.18	10.54		10.54
Phorate	lb	15.00						0.27	15.27		15.27
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Dual II Magnum	pt	14.43						0.26	14.69		14.69
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Tilt/ Bravo SE	oz	6.84						0.12	6.96		6.96
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.23	16.16		16.16
Cadre	oz	3.65						0.05	3.70		3.70
Butoxone 200(2,4-D	pt	3.21						0.05	3.26		3.26
Crop Oil Conc.(Veg.)	pt	8.68						0.12	8.80		8.80
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	30.72						0.33	31.05		31.05
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.17	16.10		16.10
Cadre	oz	5.26						0.06	5.32		5.32
Butoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Poast Plus	pt	12.63						0.13	12.76		12.76
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.08	7.75		7.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.17	0.05	0.22				0.44	0.32	0.76
Karate Z	oz	4.72						0.03	4.75		4.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	15.36						0.11	15.47		15.47
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.05	7.72		7.72
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Peanut Dig/Invertor	4R-30		8.07	2.54	4.97			0.06	15.64	8.97	24.61
Peanut Harvester	4R-30		34.45	11.01	17.91			0.22	63.59	57.06	120.65
Peanut Dump Cart	6-Row		10.61	2.22	6.53			0.07	19.43	12.62	32.05
Dry Peanuts	ton	25.92						0.09	26.01		26.01
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.09	26.19		26.19
TOTALS		573.19	68.89	21.16	44.52	0.00	8.53	716.29	103.42	819.71	

Note: Cost of production estimates are based on 2012 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, 2013

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	1035.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	28.10	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	6.84	13.68	73.27	57.91	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.16	14.43	22.79	37.03	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	4.72	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124.30	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	8.68	17.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	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	10.36	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.46	8.45	1.38	2.76	2.06	29.41
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	0.35	10.69	1.05	2.10	1.57	53.13
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	3.94	0.30	0.60	0.45	15.77
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.88	3.45	0.68	1.42	0.47	0.63
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	90.05	197.46	48.56	134.54	67.18	178.50
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-197.46	-48.56	-134.54	-67.18	856.50
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-287.51	-336.07	-470.61	-537.79	318.71

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	0.90	ton	-288 -391	-262 -365	-236 -339	-210 -314	-184 -288	-158 -262	-132 -236	-107 -210	-81 -184	-55 -158	-29 -132
60	1.08	ton	-218 -322	-187 -290	-156 -259	-125 -228	-94 -197	-63 -166	-32 -135	-1 -104	29 -73	60 -42	91 -11
70	1.26	ton	-148 -252	-112 -216	-76 -179	-40 -143	-4 -107	32 -71	68 -35	104 1	140 37	177 73	213 109
80	1.44	ton	-79 -182	-37 -141	3 -99	44 -58	86 -17	127 24	169 65	210 107	251 148	293 189	334 231
90	1.62	ton	-9 -113	36 -66	83 -19	130 26	176 73	223 119	269 166	316 212	362 259	409 306	456 352
100	1.80	ton	59 -43	111 8	163 60	215 111	266 163	318 215	370 267	422 318	473 370	525 422	577 474
110	1.98	ton	129 26	186 83	243 140	300 196	357 253	414 310	471 367	528 424	585 481	641 538	698 595
120	2.16	ton	199 95	261 157	323 220	385 282	447 344	509 406	571 468	633 530	696 592	758 654	820 716
130	2.34	ton	268 165	336 232	403 300	470 367	537 434	605 501	672 569	739 636	807 703	874 770	941 838
140	2.52	ton	338 235	410 307	483 380	555 452	628 524	700 597	773 669	845 742	918 814	990 887	1063 959
150	2.70	ton	408 304	485 382	563 459	641 537	718 615	796 692	873 770	951 848	1029 925	1106 1003	1184 1080

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 2012 input prices.

Table 3.A Estimated costs per acre
 Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.30	0.4300	12.60	_____
Potash (60% K2O)	cwt	29.80	0.5200	15.50	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.38	54.0000	20.52	_____
Artisan	oz	0.96	64.0000	61.44	_____
Provost	oz	2.18	32.0000	69.76	_____
Bravo Ultrex	lb	5.48	2.8000	15.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	1.79	4.0000	7.16	_____
Dual II Magnum	pt	14.43	1.0000	14.43	_____
Storm	pt	10.62	3.0000	31.86	_____
Cadre	oz	3.65	2.4400	8.91	_____
Butoxone 200(2,4-D	pt	3.21	2.0000	6.42	_____
Poast Plus	pt	8.42	1.5000	12.63	_____
INSECTICIDES					
Phorate	lb	3.00	5.0000	15.00	_____
Karate Z	oz	3.15	1.5000	4.72	_____
SEED/PLANTS					
Peanut Seed	lb	1.13	110.0000	124.30	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	4.34	6.0000	26.04	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
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	0.70	14.8000	10.36	_____
OPERATOR LABOR					
Tractors	hour	11.71	1.1856	13.88	_____
Self-Propelled	hour	11.71	0.2908	3.46	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR					
	hour	11.76	1.1812	13.90	_____
DIESEL FUEL					
Tractors	gal	3.50	12.8051	44.81	_____
Self-Propelled	gal	3.50	1.6470	5.77	_____
REPAIR & MAINTENANCE					
Implements	acre	7.58	1.0000	7.58	_____
Tractors	acre	6.84	1.0000	6.84	_____
Self-Propelled	acre	1.65	1.0000	1.65	_____
INTEREST ON OP. CAP.	acre	8.36	1.0000	8.36	_____
TOTAL DIRECT EXPENSES				696.85	_____
FIXED EXPENSES					
Implements	acre	28.10	1.0000	28.10	_____
Tractors	acre	43.76	1.0000	43.76	_____
Self-Propelled	acre	10.72	1.0000	10.72	_____
TOTAL FIXED EXPENSES				82.58	_____
TOTAL SPECIFIED EXPENSES				779.43	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	1.8000	1035.00	_____

TOTAL INCOME				1035.00	_____
DIRECT EXPENSES					
FERTILIZERS	acre	28.10	1.0000	28.10	_____
FUNGICIDES	acre	167.06	1.0000	167.06	_____
HERBICIDES	acre	81.41	1.0000	81.41	_____
INSECTICIDES	acre	19.72	1.0000	19.72	_____
SEED/PLANTS	acre	124.30	1.0000	124.30	_____
ADJUVANTS	acre	26.04	1.0000	26.04	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
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	10.36	1.0000	10.36	_____
HAND LABOR	hour	9.06	0.2258	2.05	_____
OPERATOR LABOR	hour	11.71	1.4765	17.34	_____
UNALLOCATED LABOR	hour	11.76	1.1812	13.90	_____
DIESEL FUEL	gal	3.50	14.4521	50.58	_____
REPAIR & MAINTENANCE	acre	16.07	1.0000	16.07	_____
INTEREST ON OP. CAP.	acre	8.36	1.0000	8.36	_____

TOTAL DIRECT EXPENSES				696.85	_____
RETURNS ABOVE DIRECT EXPENSES				338.15	_____
TOTAL FIXED EXPENSES				82.58	_____

TOTAL SPECIFIED EXPENSES				779.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				255.57	_____

Note: Cost of production estimates are based on 2012 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, 2013

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				
Butoxone 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				
Butoxone 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 2012 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, 2013

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		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Glyphosate 3lbs a.e	pt	7.16						0.15	7.31		7.31
Lime (Spread)	ton	45.00						0.96	45.96		45.96
Custom Apply Fert	acre	7.00						0.15	7.15		7.15
Phosphorus(46% P2O5)	cwt	12.60						0.27	12.87		12.87
Potash (60% K2O)	cwt	15.50						0.33	15.83		15.83
Bed-Rip/Disk Fold.	12R-38		1.87	0.41	0.97			0.06	3.31	2.46	5.77
Peanut Plt&Pre Fold.	12R-38		2.75	2.38	2.42			0.13	7.68	6.36	14.04
Peanut Seed	lb	124.30						2.20	126.50		126.50
Optimize LIFT	oz	10.36						0.18	10.54		10.54
Phorate	lb	15.00						0.27	15.27		15.27
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Dual II Magnum	pt	14.43						0.26	14.69		14.69
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.02	0.93	0.65	1.58
Tilt/ Bravo SE	oz	6.84						0.12	6.96		6.96
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.23	16.16		16.16
Cadre	oz	5.26						0.07	5.33		5.33
Butoxone 200(2,4-D	pt	3.21						0.05	3.26		3.26
Crop Oil Conc.(Veg.)	pt	8.68						0.12	8.80		8.80
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Tilt/ Bravo SE	oz	6.84						0.10	6.94		6.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	30.72						0.33	31.05		31.05
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Storm	pt	15.93						0.17	16.10		16.10
Cadre	oz	3.65						0.04	3.69		3.69
Butoxone 200(2,4-D	pt	3.21						0.03	3.24		3.24
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Poast Plus	pt	12.63						0.13	12.76		12.76
Crop Oil Conc.(Veg.)	pt	8.68						0.09	8.77		8.77
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.08	7.75		7.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.19	17.63		17.63
Sprayer 300-450gal	60' 125hp		0.17	0.05	0.22				0.44	0.32	0.76
Karate Z	oz	4.72						0.03	4.75		4.75
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Artisan	oz	30.72						0.22	30.94		30.94
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Bravo Ultrex	lb	7.67						0.05	7.72		7.72
Sprayer 300-450gal	60' 125hp		0.35	0.10	0.46			0.01	0.92	0.65	1.57
Provost	oz	17.44						0.12	17.56		17.56
Peanut Dig/Invertor	6R-38		4.25	1.36	2.61			0.03	8.25	5.13	13.38
Peanut Harvester	6R-38		25.33	8.05	13.18			0.16	46.72	45.29	92.01
Peanut Dump Cart	6-Row		10.61	2.22	6.53			0.07	19.43	12.62	32.05
Dry Peanuts	ton	25.92						0.09	26.01		26.01
Cleaning Peanuts	ton	27.54						0.10	27.64		27.64
Haul Peanuts	ton	26.10						0.09	26.19		26.19
TOTALS		588.55	50.58	16.07	33.29	0.00	8.36	696.85	82.58	779.43	

Note: Cost of production estimates are based on 2012 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, 2013

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	1035.00
DIRECT EXPENSES												
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	28.10	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	6.84	13.68	73.27	73.27	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.16	14.43	24.40	35.42	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	4.72	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124.30	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	8.68	17.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.00	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	10.36	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.46	4.31	1.38	2.76	2.06	22.32
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	0.35	5.32	1.05	2.10	1.57	40.19
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	2.99	0.30	0.60	0.45	11.63
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.88	3.26	0.70	1.40	0.58	0.54
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	90.05	186.81	50.19	132.91	82.65	154.24
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-186.81	-50.19	-132.91	-82.65	880.76
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-90.05	-276.86	-327.05	-459.96	-542.61	338.15

Note: Cost of production estimates are based on 2012 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, 2013

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Peanut Runner	431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75		
PERCENT	YIELD	UNIT	-----dollars-----										
50	0.90	ton	-268 -351	-242 -325	-217 -299	-191 -273	-165 -247	-139 -222	-113 -196	-87 -170	-61 -144	-35 -118	-10 -92
60	1.08	ton	-199 -281	-168 -250	-137 -219	-106 -188	-74 -157	-43 -126	-12 -95	18 -64	49 -33	80 -2	111 28
70	1.26	ton	-129 -212	-93 -175	-57 -139	-20 -103	15 -67	51 -30	87 5	124 41	160 77	196 113	232 150
80	1.44	ton	-59 -142	-18 -101	22 -59	64 -18	105 23	147 64	188 105	229 147	271 188	312 230	354 271
90	1.62	ton	9 -72	56 -26	102 20	149 66	196 113	242 160	289 206	335 253	382 299	428 346	475 392
100	1.80	ton	79 -3	131 48	182 100	234 152	286 203	338 255	389 307	441 359	493 410	545 462	596 514
110	1.98	ton	149 66	205 123	262 180	319 237	376 294	433 351	490 408	547 464	604 521	661 578	718 635
120	2.16	ton	218 136	280 198	342 260	404 322	467 384	529 446	591 508	653 570	715 632	777 695	839 757
130	2.34	ton	288 205	355 273	422 340	490 407	557 474	624 542	691 609	759 676	826 743	893 811	961 878
140	2.52	ton	357 275	430 347	502 420	575 492	647 565	720 637	792 710	865 782	937 854	1010 927	1082 999
150	2.70	ton	427 345	505 422	582 500	660 577	738 655	815 733	893 810	970 888	1048 966	1126 1043	1203 1121

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 2012 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, 2013

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	259,000	300	8	13.64	11.60	47.74	26.97	86.31	108.04	194.36
Combine (300-349 hp)	325 hp	298,000	300	8	16.73	11.60	58.55	31.04	101.19	124.31	225.51
Combine (350-399 hp)	355 hp	316,000	300	8	18.27	11.60	63.94	32.91	108.46	131.82	240.28
Combine (400-449 hp)	425 hp	339,000	300	8	21.87	11.60	76.56	35.31	123.47	141.42	264.90
Combine (450-499hp)	475 hp	356,000	300	8	24.44	11.60	85.57	37.08	134.25	148.51	282.76
Cotton Stripper	173 hp	170,000	200	8	8.08	11.60	28.28	26.56	66.44	106.37	172.82
Tractor(20-39hp)CB	MFWD 30	28,100	600	8	1.54	11.60	5.40	0.87	17.88	5.37	23.25
Tractor(20-39hp)RB	MFWD 30	17,400	600	8	1.54	11.60	5.40	0.54	17.54	3.32	20.87
Tractor(40-59hp)CB	2WD 50	35,200	600	8	2.57	11.60	9.00	1.10	21.70	6.73	28.44
Tractor(40-59hp)CB	MFWD 50	36,700	600	8	2.57	11.60	9.00	1.14	21.75	7.02	28.77
Tractor(40-59hp)RB	2WD 50	20,500	600	8	2.57	11.60	9.00	0.64	21.24	3.92	25.16
Tractor(40-59hp)RB	MFWD 50	29,000	600	8	2.57	11.60	9.00	0.90	21.51	5.54	27.06
Tractor(60-89hp)CB	2WD 75	45,300	600	8	3.86	11.60	13.51	1.41	26.52	8.66	35.19
Tractor(60-89hp)CB	MFWD 75	49,400	600	8	3.86	11.60	13.51	1.54	26.65	9.44	36.10
Tractor(60-89hp)RB	2WD 75	33,600	600	8	3.86	11.60	13.51	1.05	26.16	6.42	32.58
Tractor(60-89hp)RB	MFWD 75	40,300	600	8	3.86	11.60	13.51	1.25	26.37	7.70	34.07
Tractor(90-119hp)CB	2WD 105	57,700	600	8	5.40	11.60	18.91	1.80	32.31	11.03	43.35
Tractor(90-119hp)CB	MFWD 105	74,700	600	8	5.40	11.60	18.91	2.33	32.85	14.28	47.13
Tractor(90-119hp)RB	2WD 105	45,800	600	8	5.40	11.60	18.91	1.43	31.94	8.76	40.70
Tractor(90-119hp)RB	MFWD 105	51,800	600	8	5.40	11.60	18.91	1.61	32.13	9.90	42.04
Tractor(120-139hp)CB	2WD 130	82,300	600	8	6.69	11.60	23.41	2.57	37.59	15.74	53.33
Tractor(120-139hp)CB	MFWD 130	101,000	600	8	6.69	11.60	23.41	3.15	38.17	19.32	57.49
Tractor(140-159hp)CB	2WD 150	131,000	600	8	7.72	11.60	27.02	4.09	42.71	25.05	67.77
Tractor(140-159hp)CB	MFWD 150	133,000	600	8	7.72	11.60	27.02	4.15	42.77	25.44	68.22
Tractor(160-179hp)CB	MFWD 170	144,000	600	8	8.75	11.60	30.62	4.50	46.72	28.79	75.51
Tractor(180-199hp)CB	MFWD 190	154,000	600	8	9.77	11.60	34.22	4.81	50.64	30.79	81.43
Tractor(200-249hp)CB	MFWD 225	208,000	600	8	11.58	11.60	40.53	6.50	58.63	41.58	100.22
Tractor(200-249hp)CB	Track 225	258,000	600	8	11.58	11.60	40.53	8.06	60.19	51.58	111.78
Tractor(250-349hp)CB	4WD 300	262,000	600	8	15.44	11.60	54.04	8.18	73.83	52.38	126.21
Tractor(250-349hp)CB	MFWD 300	247,000	600	8	15.44	11.60	54.04	7.71	73.36	49.38	122.74
Tractor(250-349hp)CB	Track 300	260,000	600	8	15.44	11.60	54.04	8.12	73.77	51.98	125.75
Tractor(350-449hp)CB	4WD 400	300,000	600	8	20.58	11.60	72.06	9.37	93.03	59.98	153.01
Tractor(350-449hp)CB	Track 400	345,000	600	8	20.58	11.60	72.06	10.78	94.44	68.97	163.42
Tractor(450-550hp)CB	4WD 500	343,000	600	8	25.73	11.60	90.07	10.71	112.39	68.57	180.97
Tractor(450-550hp)CB	Track 500	376,000	600	8	25.73	11.60	90.07	11.75	113.42	75.17	188.60
Utility Vehicle	800 CC	7,400	200	8	0.70	11.60	2.38	1.15	15.13	4.63	19.76
Utility Vehicle-mule	600 CC	7,100	200	8	0.50	11.60	1.70	1.10	14.40	4.44	18.85

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, 2013

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	6.76	20.64	17.90	45.30	71.70	117.01
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.32	11.84	10.75	27.92	43.06	70.99
Cotton Picker	4R-38(350)	382,000	200	8	18.01	0.257	5.32	16.25	15.38	36.96	61.62	98.58
Cotton Picker	4R2x1(350)	388,000	200	8	18.01	0.172	3.55	10.86	10.44	24.87	41.83	66.70
Cotton Picker	6R-30(355)	441,000	200	8	18.27	0.218	4.50	13.95	15.03	33.50	60.22	93.73
Cotton Picker	6R-38(355)	441,000	200	8	18.27	0.172	3.55	11.02	11.87	26.45	47.55	74.00
Cotton Picker/Module	4R-38(365)	515,000	200	8	18.78	0.257	5.32	16.95	20.74	43.01	83.07	126.09
Cotton Picker/Module	6R-30(365)	572,000	200	8	18.78	0.218	4.50	14.35	19.50	38.36	78.11	116.48
Cotton Picker/Module	6R-30(500)	609,000	200	8	25.73	0.218	4.50	19.65	20.76	44.93	83.17	128.10
Cotton Picker/Module	6R-38(365)	571,000	200	8	18.78	0.172	3.55	11.33	15.37	30.26	61.56	91.83
Cotton Picker/Module	6R-38(500)	610,000	200	8	25.73	0.172	3.55	15.52	16.42	35.50	65.77	101.27
Dry Applicator SP	70'300cuft	281,000	350	8	16.98	0.015	0.24	0.89	0.22	1.36	1.51	2.88
Sprayer 110Gal	30' 50hp	43,300	350	8	2.41	0.035	0.56	0.29	0.08	0.94	0.54	1.49
Sprayer 300-450gal	60' 125hp	103,000	350	8	5.66	0.017	0.28	0.34	0.09	0.73	0.64	1.38
Sprayer 300-450gal	80' 125hp	103,000	350	8	6.43	0.013	0.21	0.29	0.07	0.58	0.48	1.07
Sprayer 600-750gal	60' 175hp	161,000	350	8	9.00	0.017	0.28	0.55	0.15	0.99	1.01	2.00
Sprayer 600-825gal	80' 175hp	161,000	350	8	11.81	0.013	0.21	0.54	0.11	0.87	0.76	1.63
Sprayer 600-825gal	90' 250hp	237,000	350	8	12.73	0.011	0.18	0.52	0.14	0.86	0.99	1.85
Sprayer 800gal	100' 250hp	232,000	350	8	14.15	0.010	0.17	0.52	0.13	0.82	0.87	1.70
Sprayer 800gal	80' 250hp	233,000	350	8	12.86	0.013	0.21	0.59	0.16	0.97	1.10	2.07
Sprayer 1000-1400gal	90' 275hp	272,000	350	8	14.15	0.010	0.17	0.52	0.15	0.84	1.02	1.87
Sprayer 1000gal	100' 300hp	274,000	350	8	15.44	0.010	0.17	0.57	0.15	0.89	1.03	1.93
Sprayer 1200+gal	120' 300hp	286,000	350	8	15.44	0.008	0.14	0.47	0.13	0.75	0.90	1.65
Utility Vehicle	20'	7,400	200	8	0.70	0.052	0.85	0.12	0.06	1.03	0.24	1.28
Utility Vehicle	75"ropewic	7,100	200	8	0.50	0.170	2.75	0.29	0.18	3.23	0.75	3.98

Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Stalk Shredder-Flail	18'	MFWD 150	24,900	200	10	0.091	1.06	2.47	1.99	0.38	5.91	1.22	2.33	9.47
Stalk Shredder-Flail	20'	MFWD 150	25,600	200	10	0.082	0.95	2.22	1.84	0.34	5.37	1.13	2.09	8.61
Stalk Shredder-Flail	25'	MFWD 150	34,100	200	10	0.066	0.76	1.78	1.96	0.27	4.79	1.20	1.67	7.68
Strip Till	8R38/12R30	MFWD 225	32,000	150	10	0.061	0.71	2.49	0.85	0.40	4.46	1.41	2.56	8.44
Subsoiler	3 shank	MFWD 190	3,390	100	15	0.204	2.37	6.99	0.23	0.98	10.57	0.58	6.29	17.45
Subsoiler	4 shank	MFWD 225	7,610	100	15	0.153	1.78	6.22	0.38	0.99	9.39	0.98	6.38	16.77
Subsoiler	5 shank	MFWD 225	7,300	100	15	0.122	1.41	4.95	0.29	0.79	7.47	0.75	5.08	13.31
Subsoiler low-till	6 shank	MFWD 225	10,200	100	15	0.102	1.18	4.14	0.34	0.66	6.33	0.87	4.24	11.46
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.88	3.10	0.50	0.49	4.98	1.26	3.18	9.43

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, 2013

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Dithane Rainshield	lb	2.84
Crop Oil Conc.(Pet.)	pt	3.75	Enable 2F	oz	1.93
Crop Oil Conc.(Veg.)	pt	4.34	Folicur 3.6	oz	1.08
Drift/Defoamer	pt	5.25	Headline EC	oz	2.81
Spreader Sticker	pt	3.28	Headline SC	oz	3.06
Surfactant	pt	3.50	Manzate 75 DF	lb	4.93
CLEANING			Moncut 70 DF	lb	24.85
Cleaning Peanuts	ton	18.00	Prevail	lb	28.26
CROP CONSULTANT			Provost	oz	2.18
Crop Consultant	acre	5.50	Quadris	oz	2.47
Rice Consultant	acre	8.00	Quilt	pt	19.37
CUSTOM FERTILIZE			Quilt XCEL	pt	26.52
App Fert by Air	cwt	6.50	Ridomil Gold	oz	6.22
App Fert by Air(Min)	appl	6.50	Ridomil Gold PC GR	lb	2.42
Custom Apply Fert	acre	7.00	Rovral 4F	pt	17.72
CUSTOM LIME			Stiletto	oz	0.56
Lime (Spread)	ton	45.00	Stratego	pt	21.97
CUSTOM PLANT			Stratego YLD	oz	4.60
Custom Plant	acre	7.00	Terrachlor 2EC	pt	1.87
Custom Plant Air	cwt	6.50	Tilt 3.6 EC	oz	1.17
CUSTOM SPRAY			Tilt/ Bravo SE	oz	0.38
App by Air (2 gal)	appl	4.00	Uniform	oz	4.42
App by Air (3 gal)	appl	4.75	Vitavax RTU-Thiram	oz	0.35
App by Air (5 gal)	appl	6.00	GINNING		
App by Air (10 gal)	appl	7.75	Gin & Haul	lb	0.11
Custom Spray	acre	6.50	GROWTH REGULATORS		
DRYING			Early Harvest PGR	oz	1.55
Dry Corn	bu	0.19	Mepex	oz	0.10
Dry Grain Sorghum	cwt	0.25	Mepex Gin Out	oz	0.15
Dry Peanuts	ton	24.00	Mepichlor 4.2%	oz	0.13
Dry Rice	bu	0.40	Mepiquat	oz	0.11
ERADICATION FEE			Mepiquat Extra	oz	0.08
Eradication	acre	1.00	Pentia	pt	5.72
FERTILIZERS			Pix Plus	oz	0.25
Amm Nitrate (34% N)	cwt	22.50	Stance	oz	1.24
Amm Sulfate (21% N)	cwt	20.70	SuperBoll	pt	3.24
Amm Sulfate dry/mix	lb	0.28	HARVEST AIDS		
Boron 15G	lb	0.40	Adios	oz	1.30
Boron Plus	pt	4.00	Aim 2EC	oz	7.38
DAP	cwt	32.00	Ammonium Sulfate	lb	0.28
Fert 10-34-0	cwt	35.00	CottonQuik	pt	4.25
Fert 11-37-0	cwt	36.50	Def 6	pt	7.34
Fert 30-0-0-5	cwt	18.32	Def/Folex	pt	8.42
Fert 33-0-0-12s	cwt	21.50	Defol 3	gal	3.45
Fert 41-0-0-4	cwt	26.30	Defol 5	gal	6.11
Lime	ton	35.00	Defol 750	pt	1.72
MAP	cwt	33.33	Dropp SC	oz	2.34
Phosphorus(46% P2O5)	cwt	29.30	ET	pt	47.80
Potash (60% K2O)	cwt	29.80	Ethephon 6E	pt	3.34
Sulfur 90%	lb	0.27	Finish 6	pt	9.22
Sulfur 90%	lb	0.27	First Pick	pt	3.66
Sulfur Plus	pt	2.37	Folex 6EC	pt	9.50
SuperMax AMS	pt	2.47	Freefall SC	oz	1.57
UAN (32% N)	cwt	21.10	Ginstar EC	pt	31.92
UAN + Sulfur (28%)	cwt	20.90	Gramoxone SL	oz	0.25
Urea, Solid (46% N)	cwt	28.40	Paraquat	oz	0.25
Zinc Plus	pt	2.62	Prep	pt	3.00
Zinc Sulfate 31%	lb	0.55	Sharpen	oz	5.30
FUNGICIDES			Shed-a-leaf	gal	3.60
Abound	pt	30.16	Sodium Chlorate 3L	gal	3.45
Allegiance Flowable	pt	59.52	Sodium Chlorate 5L	gal	6.11
Apron Maxx RTA	oz	0.87	TDZ SC	oz	1.41
Apron Maxx RTA+Moly	pt	15.47	Thidiazuron 4lb	oz	1.80
Apron XL LS	oz	7.93	Tribufos 6lb	pt	8.42
Artisan	oz	0.96	HAULING		
Bravo Ultrex	lb	5.48	Haul Corn/Bin	bu	0.23
Bravo Weather Stick	pt	4.42	Haul Corn/Field	bu	0.28
Captan 50 WP	lb	6.00	Haul Cotton	lb	0.02
Cotton Seed Trt.	acre	20.00	Haul Peanuts	ton	14.50
CruiserMaxx	oz	4.07	Haul Rice/Bin	bu	0.30
Dithane F-45	qt	8.17			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.31	Fusion	pt	26.64
Haul Sorghum/Bin	bu	0.23	Glyfos	pt	1.94
Haul Sorghum/Field	bu	0.28	Glyfos Xtra	pt	1.80
Haul Soybeans/Bin	bu	0.23	Glyphosate 3lbs a.e	pt	1.79
Haul Soybeans/Field	bu	0.28	Glyphosate 3lbs a.e	oz	0.13
Haul Wheat/Bin	bu	0.23	Glystar	pt	1.81
Haul Wheat/Field	bu	0.28	Glystar Plus	pt	1.80
HERBICIDES			Goal 2XL	pt	9.87
2,4-D Amine 4	pt	2.54	Gramonone SL 2.0	oz	0.25
2,4-D LV 4Ester	pt	2.31	Grandstand R	qt	28.37
2,4-D Weedar 64	pt	2.54	Guardman Max	pt	6.92
AAtrex 4L	pt	2.28	Halex GT	pt	6.16
AAtrex NINE-O	lb	4.22	Halomax	oz	18.42
Accent Q	oz	32.47	Harmony Extra SG	oz	13.27
Aim 2EC	oz	7.38	Harmony Extra XP	oz	14.40
Armezon	oz	0.00	Harmony GT	oz	20.72
Assure II	oz	0.90	Harness	pt	11.88
Atrazine 4L	pt	1.72	Harness XTRA	pt	7.00
Atrazine 90DF	lb	3.24	Hoelon 3EC	pt	11.03
Axial	oz	0.98	Impact	oz	20.34
Axiom 68DF	oz	1.73	Karmex XP	lb	6.81
Banvel	pt	6.98	Lariat	qt	7.29
Basagran	pt	13.23	Laudis	oz	4.89
Basis	oz	18.57	Layby Pro	qt	13.87
Beyond	oz	3.90	Lexar	pt	6.85
Bicep II Magnum	qt	11.82	Liberty 280	pt	8.84
Bicep Lite Magnum	pt	7.95	Linex 4L	pt	9.92
Blazer Ultra	pt	9.40	Londax 60DF	oz	14.75
Bolero 8EC	pt	7.30	Lorox 50DF	lb	20.60
Boundary 6.5 EC	pt	9.67	Makaze	pt	1.50
Buccaneer Plus	pt	1.74	MSMA 6.6	pt	2.79
Bullet	pt	3.65	MSMA6 Plus	pt	2.71
Butoxone 200(2,4-D	pt	3.21	Newpath 2SL	oz	3.15
Butyrac 200 (2,4-DB)	pt	4.18	Osprey	oz	3.20
Cadre	oz	3.65	Outlook	pt	22.99
Callisto 4SC	oz	5.50	Paraquat	oz	0.25
Canopy 75%	oz	2.21	Parazone 3SL	oz	0.26
Canopy EX	oz	7.76	Parrlay	pt	8.13
Caparol 4L	pt	2.54	Peak Accu Pak	oz	14.69
Capreno	oz	5.78	Permit 75 DF	oz	19.79
Celebrity Plus	lb	84.50	Poast 1.53	pt	11.25
Clarity	pt	10.83	Poast Plus	pt	8.42
Classic	oz	16.06	Prefix	pt	6.84
Clearpath	lb	48.09	Propimax EC	pt	20.31
Clincher SF	oz	2.10	Prowl 3.3 EC	pt	5.51
Cobra 2EC	oz	1.47	Prowl H20	pt	5.37
Command 3ME	pt	17.08	Pursuit 2S	oz	3.93
Cornerstone Plus	pt	1.56	Python WDG	oz	13.22
Cotoran 4L	pt	6.12	Quinstar	lb	48.70
Cotton Pro	pt	3.44	Raptor	oz	4.05
Credit Extra	pt	2.04	Reflex 2LC	pt	16.10
Direx 4L	pt	4.05	Regiment 80WP	oz	40.64
Diuron 4L	pt	3.85	Remedy Ultra	pt	8.45
Diuron 80 DF	lb	5.13	Resolve SG	oz	7.77
Diuron 80%	lb	5.13	Resource .86EC	pt	27.28
Dual II Magnum	pt	14.43	Ricebeaux	pt	5.17
Dual Magnum	pt	13.54	RicePro	pt	4.85
Duet	pt	4.78	Riceshot	pt	3.48
Envoke	oz	88.92	Ricestar HT	pt	22.25
Evik DF 80W	lb	10.11	Rifel	pt	4.38
Exceed	oz	10.71	Roundup Power Max	oz	0.18
Expert	pt	4.19	Roundup PowerMax	pt	2.83
Facet L	pt	14.25	Roundup WeatherMax	oz	0.24
Finesse	oz	15.34	Roundup WeatherMax	pt	3.77
First Rate	oz	39.68	Salvo	pt	3.56
Flexstar	pt	16.78	Scepter 70 DG	oz	4.33
Frontier 6.0	oz	0.63	Select Max	pt	12.59
Fultime	pt	5.21	Sequence	pt	5.08
Fusilade DX	oz	1.23			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Simazine 4L	pt	2.86	Intrepid 2F	oz	1.81
Stalwart	pt	6.25	Intruder 70WSP	oz	8.75
Stam 80 EDF	lb	7.13	Karate Z	oz	3.15
Stam M4	qt	7.51	Kelthane MF 4EC	pt	5.03
Staple LX	oz	8.25	Lannate LV	pt	9.87
Steadfast	oz	23.95	Lannate SP	oz	1.83
Steadfast ATZ	oz	0.00	Larvin 3.2	oz	0.62
Sterling Blue	pt	9.81	Leverage 2.7	oz	1.33
Storm	pt	10.62	Lorsban 15G	lb	2.24
Strada WG	oz	5.96	Lorsban 4E	pt	5.54
Strongarm	oz	47.07	Malathion 5E	pt	4.60
Superwham	qt	8.49	Malathion 8E	pt	5.50
Suprend	lb		Methyl Parathion 4	pt	5.58
Surpass EC	qt	25.92	Monitor 4	pt	16.33
Synchrony XP	oz	11.75	Mustang Max	oz	1.58
Touchdown Total	qt	5.49	Oberon 4 SC	pt	76.18
Treflan TR-10	lb	1.10	Orthene 90S	lb	6.50
Tricor DF	lb	14.46	Penncap-M	pt	5.90
Trifluralin 4EC	pt	3.19	Phorate	lb	3.00
Valor SX	oz	5.55	Pounce 25WP	lb	12.77
Valor XLT	oz	4.10	Prolex	oz	2.62
Verdict	oz	1.58	Respect .8EC	pt	33.79
Zidua	oz	0.00	Sevin 4F	pt	6.01
Zorial Rapid 80DF	lb	13.95	Sevin 80S	lb	7.35
INOCULANT			Sevin XLR Plus	qt	12.39
Nitrastick S	lbseed	0.02	Sniper	oz	0.70
Nitro Fix	lbseed	0.03	Steward	pt	31.20
Optimize LIFT	oz	0.70	Temik 15G Grit	lb	4.11
INSECT SCOUTING			Temik 15G Gypsum	lb	4.11
Insect Scouting	acre	7.00	Thimet 20-G Lock N L	lb	3.33
INSECTICIDES			Thionex 3 EC	pt	4.46
Acephate 90%	lb	6.53	Thionex 50W	lb	10.51
Acephate 90SP	lb	6.56	Tombstone Helios	pt	36.30
Acramite-4SC	oz	1.37	Tracer 4SC	oz	8.45
Ambush 25 WP	.66	0.00	Trimax Pro	oz	1.85
Asana .66 XL	oz	0.75	Tundra	oz	0.78
Aztec 2.1% G	lb	3.40	Vydate C-LV	oz	0.83
Baythroid XL	oz	2.27	Warrior Z	oz	1.80
Bidrin 8WM	oz	1.01	Zeal	oz	18.59
Bidrin XP	oz	0.78	Zephyr	oz	2.20
Bifenture 2EC	pt	12.50	IRRIGATION SUPPLIES		
Brigade EC	pt	14.58	Roll-Out Pipe	ft	0.24
Brigade WSB	lb	22.22	SEED/PLANTS		
Capture 2EC	oz	1.76	Corn Seed Bt	thous	2.60
Capture LFR	oz	2.16	Corn Seed BtRR	thous	3.34
Carbaryl 4L	pt	4.88	Corn Seed Conv.	thous	2.57
Carbine 50WG	oz	5.50	Corn Seed RR2	thous	3.11
Centric 40WG	oz	4.46	Corn Seed VT3	thous	3.29
Comite 1l	pt	7.23	Corn Seed VT3Pro	thous	3.38
Confirm 2F	oz	1.94	Corn Seed YGCB	thous	2.60
Counter 15G	lb	2.55	Cotton Seed B2RF	thous	0.68
Curacron 8E	pt	10.74	Cotton Seed LL	thous	1.15
Cypermethrin	oz	0.47	Cotton Seed LLB2	thous	1.16
Denim 0.16 EC	pt	30.23	Cotton Seed RF	thous	0.63
Diamond .83EC	pt	17.83	Cotton Seed W	thous	0.67
Dimethoate 4E	pt	5.45	Cotton Seed WRF	thous	0.67
Dimilin 2L	oz	1.84	Peanut Seed	lb	1.13
Dipel DF	lb	13.98	Rice Clearfield	lb	0.85
Dipel ES	pt	5.28	Rice Clearfield Hyb	lb	6.90
Discipline 2 EC	oz	0.78	Rice Conv. Hybrid	lb	5.34
Endigo ZC	pt	29.19	Rice Seed (Levees)	lb	0.29
Fanfare 2EC	oz	0.78	Rice Seed CF(Levees)	lb	0.85
Force 3G	lb	6.25	Rice Seed CFH(Levee)	lb	6.90
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.29
Furadan 4FLFR	pt	9.81	Rice Seed Std.Blend	lb	2.30
Gaucha 600	oz	5.75	Sorghum Concept	lb	2.03
Hero	pt	23.05	Soybean Seed LL	lb	1.13
Holster	pt	0.80	Soybean Seed RR2	lb	1.04
Imidan 70 WSB	oz	0.70	Wheat Seed Private	lb	0.37
Incidental Pest Trt	acre	12.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
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
B2RF Cot Tech Fee	thous	1.49	WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2013

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.50
Gasoline	gal	3.40
LP Gas	gal	2.00
INTEREST RATES		
Short-term	%	4.25
Intermediate-term	%	5.25

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2013

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.71
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, 2013

	Unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '13	6.32	-0.3012	6.02	2.09	6.02
Cotton Lint	lb	Dec '13	0.770	-0.0276	0.743	.524	0.74
Cottonseed	lb						0.103 ^f
Grain Sorghum	bu				5.72	3.61	5.72
Peanuts	ton				575.00	355.00	575.00
Soybeans	bu	Nov '13	13.35	-0.3030	13.05	5.21	13.05
Rice	bu	Sep '13	7.07	-0.8110	6.25	2.97	6.25
Wheat	bu	Jul '13	8.51	-0.6908	7.82	2.87	7.82

^a Average of the futures contract month closings in October.

^b The basis is computed by subtracting the 2001-2012 average near futures contract month closings in October from the daily spot cash prices reported in October.
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 2012 crop year for soybeans, corn, grain sorghum, and wheat. 2012 Mississippi base loan rate for the Delta area for cotton. 2012 Mississippi loan rate for long grain rice. 2012 national average loan rate for peanuts.

^e Price used in the 2013 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2008-2012, 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, 2013

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			12.44				0.22	12.66	50.99
Well & Pump, 1/4 CP	each			2.89				0.05	2.94	8.76
Engine, 1/4 CP, 65	each									8.68
June Irr. 3app@.75"	ac-in		11.76	1.19				0.23	13.18	13.18
July Irr. 4app@.75"	ac-in		15.68	1.59				0.24	17.51	17.51
Aug Irr. 3app@.75"	ac-in		11.76	1.19				0.14	13.09	13.09
TOTALS		0.00	39.20	19.30	1.84	0.00	0.91	61.25	68.43	129.68

Note: Cost of production estimates are based on 2012 input prices.

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