PEANUTS
2011
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2010-14

December 2010

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 2011 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.

2011 Budget Committees

Corn, Grain Sorghum, and Wheat
Gregg Ibendahl, MSU-ES, Chairman
John Byrd, MSU-ES
Wayne Ebelhar, MAFES
Eric Larson, MSU-ES/MAFES
Larry Oldham, MSU-ES
Glover Triplett, MAFES

Cotton
John Michael Riley, MSU-ES, Chairman
Gordon Andrews, MSU-ES
Jason Bond, MAFES
Angus Catchot, MSU-ES
Darrin Dodds, MSU-ES
Dan Reynolds, MAFES

Peanuts
John Michael Riley, MSU-ES, Chairman
Mike Howell, MSU-ES

Rice
John Michael Riley, MSU-ES, Chairman
Gordon Andrews, MSU-ES
Nathan Buehring, MSU-ES
Tim Walker, MAFES

Soybeans
Gregg Ibendahl, MSU-ES, Chairman
Normie W. Buehring, MAFES
Angus Catchot, MSU-ES
Trey Koger, MSU-ES

Vegetables
Ken Hood, MSU-ES, Chairman
Allen Henn, MSU-ES
David Ingram, MAFES
David H. Nagel, MSU-ES
Blake Layton, MSU-ES

Fruit & Nut
Kim Morgan, MSU-ES, Chairman
John Braswell, MSU-ES
Frank Matta, MAFES
David Ingram, MAFES
Blake Layton, MSU-ES

Supporting Committees

Equipment
Ken Hood, MSU-ES, Chairman
Dave Sites, MAFES

Prices
Ken Hood, MSU-ES, Chairman
Dave Sites, MAFES
W. Gail Gillis, MAFES

Documentation and Data Processing
Ken Hood, MSU-ES, Chairman
Dave Sites, MAFES
W. Gail Gillis, MAFES

Publication Review
Ken Hood, MSU-ES, Chairman
Dave Sites, MAFES
W. Gail Gillis, MAFES

Table of Contents

2011 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 2010. (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:

$$RPH = \frac{RLC \; x \; RP}{THL}$$

$$RPA = RPH \; x \; PR$$

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.

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

CRF

where:

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

$$CRCPY = [(RLC - SV) \; x \; CRF]$$

$$+ (SV \; x \; IIR)$$

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:

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

$$CRCPA = CRCPH \times PR$$

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, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4300	9.46	_____
Potash (60% K2O)	cwt	23.00	0.5200	11.96	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.45	54.0000	24.30	_____
Artisan	oz	0.85	64.0000	54.40	_____
Provost	oz	2.16	32.0000	69.12	_____
Bravo Ultrex	lb	6.83	2.8000	19.12	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Dual II Magnum	pt	13.26	1.0000	13.26	_____
Storm	pt	11.18	3.0000	33.54	_____
Cadre	oz	4.20	2.4400	10.25	_____
Butoxone 200(2,4-DB)	pt	4.04	2.0000	8.08	_____
Poast Plus	pt	7.37	1.5000	11.06	_____
INSECTICIDES					
Phorate	lb	2.69	5.0000	13.45	_____
Karate Z	oz	2.87	1.5000	4.31	_____
SEED/PLANTS					
Peanut Seed	lb	0.75	110.0000	82.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	3.33	6.0000	19.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.56	14.8000	8.29	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.6246	18.44	_____
Self-Propelled	hour	11.35	0.2908	3.30	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR	hour	11.34	1.5324	17.39	_____
DIESEL FUEL					
Tractors	gal	2.39	17.5722	42.00	_____
Self-Propelled	gal	2.39	1.6470	3.96	_____
REPAIR & MAINTENANCE					
Implements	acre	8.25	1.0000	8.25	_____
Tractors	acre	7.46	1.0000	7.46	_____
Self-Propelled	acre	1.49	1.0000	1.49	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____

TOTAL DIRECT EXPENSES				644.13	_____
FIXED EXPENSES					
Implements	acre	28.89	1.0000	28.89	_____
Tractors	acre	48.51	1.0000	48.51	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____

TOTAL FIXED EXPENSES				87.63	_____

TOTAL SPECIFIED EXPENSES				731.76	_____

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	1.0000	21.42	_____
FUNGICIDES	acre	166.94	1.0000	166.94	_____
HERBICIDES	acre	83.19	1.0000	83.19	_____
INSECTICIDES	acre	17.76	1.0000	17.76	_____
SEED/PLANTS	acre	82.50	1.0000	82.50	_____
ADJUVANTS	acre	19.98	1.0000	19.98	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT	acre	8.29	1.0000	8.29	_____
HAND LABOR	hour	9.06	0.2662	2.41	_____
OPERATOR LABOR	hour	11.35	1.9155	21.74	_____
UNALLOCATED LABOR	hour	11.34	1.5324	17.39	_____
DIESEL FUEL	gal	2.39	19.2193	45.96	_____
REPAIR & MAINTENANCE	acre	17.20	1.0000	17.20	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____
TOTAL DIRECT EXPENSES				644.13	_____
RETURNS ABOVE DIRECT EXPENSES				345.87	_____
TOTAL FIXED EXPENSES				87.63	_____
TOTAL SPECIFIED EXPENSES				731.76	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				258.24	_____

Note: Cost of production estimates are based on 2010 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, 2011

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				
Rip/Bed/Till-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-DB)	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-DB)	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 2010 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, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.02	0.79	0.62	1.41
Glyphosate 3lbs a.e.	pt	7.00					0.15	7.15		7.15
Lime (Spread)	ton	46.00					1.00	47.00		47.00
Custom Apply Fert	acre	6.25					0.14	6.39		6.39
Phosphorus(46% P2O5)	cwt	9.46					0.20	9.66		9.66
Potash (60% K2O)	cwt	11.96					0.26	12.22		12.22
Rip/Bed/Till-Fold.	8R-38		1.71	0.40	1.49		0.06	3.66	2.44	6.10
Peanut Plt&Pre Rigid	8R-38		2.82	1.97	3.56		0.15	8.50	6.09	14.59
Peanut Seed	lb	82.50					1.49	83.99		83.99
Optimize LIFT	oz	8.29					0.15	8.44		8.44
Phorate	lb	13.45					0.24	13.69		13.69
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Dual II Magnum	pt	13.26					0.24	13.50		13.50
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.15	8.25		8.25
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.24	17.01		17.01
Cadre	oz	4.20					0.06	4.26		4.26
Butoxone 200(2,4-DB)	pt	4.04					0.06	4.10		4.10
Crop Oil Conc.(Veg.)	pt	6.66					0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	27.20					0.29	27.49		27.49
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.18	16.95		16.95
Cadre	oz	6.05					0.07	6.12		6.12
Butoxone 200(2,4-DB)	pt	4.04					0.04	4.08		4.08
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Poast Plus	pt	11.06					0.12	11.18		11.18
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.10	9.66		9.66
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.12	0.05	0.22			0.39	0.31	0.70
Karate Z	oz	4.31					0.03	4.34		4.34
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	27.20					0.20	27.40		27.40
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.07	9.63		9.63
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Peanut Dig/Invertor	4R-38		4.35	1.71	3.80		0.04	9.90	6.03	15.93
Peanut Harvester	4R-38		25.87	9.76	19.10		0.20	54.93	52.10	107.03
Peanut Dump Cart	6-Row		7.25	1.87	6.33		0.06	15.51	10.74	26.25
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		531.89	45.96	17.20	41.54	0.00	7.54	644.13	87.63	731.76

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	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	8.10	16.20	71.32	71.32	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.00	13.26	25.01	37.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.00	4.31	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66	13.32	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	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	46.00	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	8.29	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.44	5.93	1.32	2.64	1.98	29.23
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	0.24	5.01	0.72	1.44	1.08	37.47
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.55	0.27	0.54	0.41	13.34
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.77	2.50	0.73	1.38	0.58	0.58
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	83.21	141.59	50.91	128.56	79.68	160.18
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-141.59	-50.91	-128.56	-79.68	829.82
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-224.80	-275.71	-404.27	-483.95	345.87

Note: Cost of production estimates are based on 2010 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, 2011

			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	-232	-208	-183	-158	-133	-109	-84	-59	-34	-10	14
			-320	-295	-271	-246	-221	-196	-172	-147	-122	-97	-73
60	1.08	ton	-166	-136	-107	-77	-47	-18	11	41	70	100	130
			-254	-224	-194	-165	-135	-105	-76	-46	-16	12	42
70	1.26	ton	-100	-65	-31	3	38	72	107	142	176	211	246
			-188	-153	-118	-84	-49	-14	19	54	89	123	158
80	1.44	ton	-34	5	45	84	124	163	203	243	282	322	361
			-121	-82	-42	-2	36	76	115	155	195	234	274
90	1.62	ton	32	76	121	165	210	254	299	343	388	433	477
			-55	-10	33	78	122	167	211	256	300	345	389
100	1.80	ton	98	147	197	246	296	345	395	444	494	543	593
			10	60	109	159	208	258	307	357	406	456	505
110	1.98	ton	164	219	273	327	382	436	491	545	600	654	709
			77	131	185	240	294	349	403	458	512	567	621
120	2.16	ton	230	290	349	409	468	527	587	646	706	765	824
			143	202	262	321	380	440	499	559	618	677	737
130	2.34	ton	297	361	425	490	554	618	683	747	811	876	940
			209	273	338	402	466	531	595	659	724	788	853
140	2.52	ton	363	432	502	571	640	709	779	848	917	987	1056
			275	345	414	483	553	622	691	760	830	899	968
150	2.70	ton	429	503	578	652	726	800	875	949	1023	1097	1172
			342	416	490	564	639	713	787	861	936	1010	1084

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 2010 input prices.

Table 2.A Estimated costs per acre
Peanut - runner, 1.8 ton (3600 lb) yield, 8 row-30 inch
All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4300	9.46	_____
Potash (60% K2O)	cwt	23.00	0.5200	11.96	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.45	54.0000	24.30	_____
Artisan	oz	0.85	48.0000	40.80	_____
Provost	oz	2.16	32.0000	69.12	_____
Bravo Ultrex	lb	6.83	2.8000	19.12	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Dual II Magnum	pt	13.26	1.0000	13.26	_____
Storm	pt	11.18	3.0000	33.54	_____
Cadre	oz	4.20	2.4400	10.25	_____
Butoxone 200(2,4-DB)	pt	4.04	2.0000	8.08	_____
Poast Plus	pt	7.37	1.5000	11.06	_____
INSECTICIDES					
Phorate	lb	2.69	5.0000	13.45	_____
Karate Z	oz	2.87	1.5000	4.31	_____
SEED/PLANTS					
Peanut Seed	lb	0.75	110.0000	82.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	3.33	6.0000	19.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.56	14.8000	8.29	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.7225	19.55	_____
Self-Propelled	hour	11.35	0.2908	3.30	_____
HAND LABOR					
Implements	hour	9.06	0.1527	1.38	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR	hour	11.34	1.6107	18.28	_____
DIESEL FUEL					
Tractors	gal	2.39	18.5301	44.29	_____
Self-Propelled	gal	2.39	1.6470	3.96	_____
REPAIR & MAINTENANCE					
Implements	acre	8.89	1.0000	8.89	_____
Tractors	acre	7.85	1.0000	7.85	_____
Self-Propelled	acre	1.49	1.0000	1.49	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____

TOTAL DIRECT EXPENSES				636.14	_____
FIXED EXPENSES					
Implements	acre	30.35	1.0000	30.35	_____
Tractors	acre	51.05	1.0000	51.05	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____

TOTAL FIXED EXPENSES				91.63	_____

TOTAL SPECIFIED EXPENSES				727.77	_____

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	1.0000	21.42	_____
FUNGICIDES	acre	153.34	1.0000	153.34	_____
HERBICIDES	acre	83.19	1.0000	83.19	_____
INSECTICIDES	acre	17.76	1.0000	17.76	_____
SEED/PLANTS	acre	82.50	1.0000	82.50	_____
ADJUVANTS	acre	19.98	1.0000	19.98	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT	acre	8.29	1.0000	8.29	_____
HAND LABOR	hour	9.06	0.2982	2.70	_____
OPERATOR LABOR	hour	11.35	2.0134	22.85	_____
UNALLOCATED LABOR	hour	11.34	1.6107	18.28	_____
DIESEL FUEL	gal	2.39	20.1771	48.25	_____
REPAIR & MAINTENANCE	acre	18.23	1.0000	18.23	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____
TOTAL DIRECT EXPENSES				636.14	_____
RETURNS ABOVE DIRECT EXPENSES				353.86	_____
TOTAL FIXED EXPENSES				91.63	_____
TOTAL SPECIFIED EXPENSES				727.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				262.23	_____

Note: Cost of production estimates are based on 2010 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, 2010

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' 117hp		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				
Rip/Bed/Till-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' 117hp		0.017	1.00	May			0.01	0.02	0.01
Dual II Magnum	pt					1.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	May			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jun			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.0000				
Butoxone 200(2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jun			0.01	0.02	0.01
Tilt/ Bravo SE	oz					18.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jul			0.01	0.02	0.01
Artisan	oz					32.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jul			0.01	0.02	0.01
Storm	pt					1.5000				
Cadre	oz					1.4400				
Butoxone 200(2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 300-450gal	60' 117hp		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' 117hp		0.017	1.00	Jul			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Jul			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 117hp		0.017	0.50	Aug			0.00	0.01	0.00
Karate Z	oz					1.5000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Aug			0.01	0.02	0.01
Artisan	oz					16.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Aug			0.01	0.02	0.01
Provost	oz					8.0000				
Sprayer 300-450gal	60' 117hp		0.017	1.00	Aug			0.01	0.02	0.01
Bravo Ultrex	lb					1.4000				
Sprayer 300-450gal	60' 117hp		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							2.01	1.72	2.31	1.61

Note: Cost of production estimates are based on 2009 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, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.02	0.79	0.62	1.41
Glyphosate 3lbs a.e.	pt	7.00					0.15	7.15		7.15
Lime (Spread)	ton	46.00					1.00	47.00		47.00
Custom Apply Fert	acre	6.25					0.14	6.39		6.39
Phosphorus(46% P2O5)	cwt	9.46					0.20	9.66		9.66
Potash (60% K2O)	cwt	11.96					0.26	12.22		12.22
Rip/Bed/Till-Rigid	8R-30		3.25	0.73	2.84		0.12	6.94	4.48	11.42
Peanut Plt&Pre Rigid	8R-30		3.57	2.67	4.50		0.19	10.93	8.05	18.98
Peanut Seed	lb	82.50					1.49	83.99		83.99
Optimize LIFT	oz	8.29					0.15	8.44		8.44
Phorate	lb	13.45					0.24	13.69		13.69
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Dual II Magnum	pt	13.26					0.24	13.50		13.50
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.15	8.25		8.25
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.24	17.01		17.01
Cadre	oz	4.20					0.06	4.26		4.26
Butoxone 200(2,4-DB)	pt	4.04					0.06	4.10		4.10
Crop Oil Conc.(Veg.)	pt	6.66					0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	27.20					0.29	27.49		27.49
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.18	16.95		16.95
Cadre	oz	6.05					0.07	6.12		6.12
Butoxone 200(2,4-DB)	pt	4.04					0.04	4.08		4.08
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Poast Plus	pt	11.06					0.12	11.18		11.18
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.10	9.66		9.66
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.12	0.05	0.22			0.39	0.31	0.70
Karate Z	oz	4.31					0.03	4.34		4.34
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	13.60					0.10	13.70		13.70
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.07	9.63		9.63
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Peanut Dig/Invertor	4R-38		4.35	1.71	3.80		0.04	9.90	6.03	15.93
Peanut Harvester	4R-38		25.87	9.76	19.10		0.20	54.93	52.10	107.03
Peanut Dump Cart	6-Row		7.25	1.87	6.33		0.06	15.51	10.74	26.25
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		518.29	48.25	18.23	43.83	0.00	7.54	636.14	91.63	727.77

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	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	8.10	16.20	71.32	57.72	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.00	13.26	25.01	37.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.00	4.31	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66	13.32	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	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	46.00	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	8.29	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.44	8.22	1.32	2.64	1.98	29.23
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	0.24	7.30	0.72	1.44	1.08	37.47
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.58	0.27	0.54	0.41	13.34
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.77	2.60	0.73	1.38	0.48	0.58
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	83.21	147.30	50.91	128.56	65.98	160.18
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-147.30	-50.91	-128.56	-65.98	829.82
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-230.51	-281.42	-409.98	-475.96	353.86

Note: Cost of production estimates are based on 2010 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, 2011

			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	-224	-200	-175	-150	-125	-101	-76	-51	-26	-2	22
			-316	-291	-267	-242	-217	-192	-168	-143	-118	-93	-69
60	1.08	ton	-158	-129	-99	-69	-39	-10	19	49	78	108	138
			-250	-220	-190	-161	-131	-101	-72	-42	-12	16	46
70	1.26	ton	-92	-57	-23	11	46	80	115	150	184	219	254
			-184	-149	-114	-80	-45	-10	23	58	93	127	162
80	1.44	ton	-26	13	53	92	132	171	211	251	290	330	369
			-117	-78	-38	0	40	80	119	159	198	238	278
90	1.62	ton	40	84	129	173	218	262	307	351	396	441	485
			-51	-6	37	82	126	171	215	260	304	349	393
100	1.80	ton	106	155	205	254	304	353	403	452	502	551	601
			14	64	113	163	212	262	311	361	410	460	509
110	1.98	ton	172	227	281	335	390	444	499	553	608	662	717
			80	135	189	244	298	353	407	462	516	571	625
120	2.16	ton	238	298	357	417	476	535	595	654	714	773	832
			147	206	266	325	384	444	503	563	622	681	741
130	2.34	ton	305	369	433	498	562	626	691	755	819	884	948
			213	277	342	406	470	535	599	663	728	792	857
140	2.52	ton	371	440	510	579	648	717	787	856	925	995	1064
			279	349	418	487	556	626	695	764	834	903	972
150	2.70	ton	437	511	586	660	734	808	883	957	1031	1105	1180
			346	420	494	568	643	717	791	865	940	1014	1088

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 2010 input prices.

Table 3.A Estimated costs per acre
Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4300	9.46	_____
Potash (60% K2O)	cwt	23.00	0.5200	11.96	_____
FUNGICIDES					
Tilt/ Bravo SE	oz	0.45	54.0000	24.30	_____
Artisan	oz	0.85	64.0000	54.40	_____
Provost	oz	2.16	32.0000	69.12	_____
Bravo Ultrex	lb	6.83	2.8000	19.12	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Dual II Magnum	pt	13.26	1.0000	13.26	_____
Storm	pt	11.18	3.0000	33.54	_____
Cadre	oz	4.20	2.4400	10.25	_____
Butoxone 200(2,4-DB)	pt	4.04	2.0000	8.08	_____
Poast Plus	pt	7.37	1.5000	11.06	_____
INSECTICIDES					
Phorate	lb	2.69	5.0000	13.45	_____
Karate Z	oz	2.87	1.5000	4.31	_____
SEED/PLANTS					
Peanut Seed	lb	0.75	110.0000	82.50	_____
ADJUVANTS					
Crop Oil Conc.(Veg.)	pt	3.33	6.0000	19.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT					
Optimize LIFT	oz	0.56	14.8000	8.29	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.1856	13.45	_____
Self-Propelled	hour	11.35	0.2908	3.30	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.1454	1.32	_____
UNALLOCATED LABOR	hour	11.35	1.1812	13.41	_____
DIESEL FUEL					
Tractors	gal	2.39	12.8051	30.61	_____
Self-Propelled	gal	2.39	1.6470	3.96	_____
REPAIR & MAINTENANCE					
Implements	acre	6.95	1.0000	6.95	_____
Tractors	acre	5.43	1.0000	5.43	_____
Self-Propelled	acre	1.49	1.0000	1.49	_____
INTEREST ON OP. CAP.	acre	7.42	1.0000	7.42	_____

TOTAL DIRECT EXPENSES				619.96	_____
FIXED EXPENSES					
Implements	acre	26.10	1.0000	26.10	_____
Tractors	acre	35.33	1.0000	35.33	_____
Self-Propelled	acre	10.23	1.0000	10.23	_____

TOTAL FIXED EXPENSES				71.66	_____

TOTAL SPECIFIED EXPENSES				691.62	_____

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	1.0000	21.42	_____
FUNGICIDES	acre	166.94	1.0000	166.94	_____
HERBICIDES	acre	83.19	1.0000	83.19	_____
INSECTICIDES	acre	17.76	1.0000	17.76	_____
SEED/PLANTS	acre	82.50	1.0000	82.50	_____
ADJUVANTS	acre	19.98	1.0000	19.98	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
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	46.00	1.0000	46.00	_____
INOCULANT	acre	8.29	1.0000	8.29	_____
HAND LABOR	hour	9.06	0.2258	2.05	_____
OPERATOR LABOR	hour	11.35	1.4765	16.75	_____
UNALLOCATED LABOR	hour	11.35	1.1812	13.41	_____
DIESEL FUEL	gal	2.39	14.4521	34.57	_____
REPAIR & MAINTENANCE	acre	13.87	1.0000	13.87	_____
INTEREST ON OP. CAP.	acre	7.42	1.0000	7.42	_____
TOTAL DIRECT EXPENSES				619.96	_____
RETURNS ABOVE DIRECT EXPENSES				370.04	_____
TOTAL FIXED EXPENSES				71.66	_____
TOTAL SPECIFIED EXPENSES				691.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				298.38	_____

Note: Cost of production estimates are based on 2010 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, 2011

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				
Rip/Bed/Till-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-DB)	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-DB)	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 2010 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, 2011

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		0.24	0.09	0.44		0.02	0.79	0.62	1.41
Glyphosate 3lbs a.e.	pt	7.00					0.15	7.15		7.15
Lime (Spread)	ton	46.00					1.00	47.00		47.00
Custom Apply Fert	acre	6.25					0.14	6.39		6.39
Phosphorus(46% P2O5)	cwt	9.46					0.20	9.66		9.66
Potash (60% K2O)	cwt	11.96					0.26	12.22		12.22
Rip/Bed/Till-Fold.	12R-38		1.28	0.34	0.94		0.05	2.61	2.05	4.66
Peanut Plt&Pre Fold.	12R-38		1.88	2.31	2.37		0.12	6.68	6.03	12.71
Peanut Seed	lb	82.50					1.49	83.99		83.99
Optimize LIFT	oz	8.29					0.15	8.44		8.44
Phorate	lb	13.45					0.24	13.69		13.69
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Dual II Magnum	pt	13.26					0.24	13.50		13.50
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.15	8.25		8.25
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.24	17.01		17.01
Cadre	oz	6.05					0.09	6.14		6.14
Butoxone 200(2,4-DB)	pt	4.04					0.06	4.10		4.10
Crop Oil Conc.(Veg.)	pt	6.66					0.10	6.76		6.76
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Tilt/ Bravo SE	oz	8.10					0.12	8.22		8.22
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	27.20					0.29	27.49		27.49
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Storm	pt	16.77					0.18	16.95		16.95
Cadre	oz	4.20					0.05	4.25		4.25
Butoxone 200(2,4-DB)	pt	4.04					0.04	4.08		4.08
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Poast Plus	pt	11.06					0.12	11.18		11.18
Crop Oil Conc.(Veg.)	pt	6.66					0.07	6.73		6.73
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.10	9.66		9.66
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.19	17.47		17.47
Sprayer 300-450gal	60' 125hp		0.12	0.05	0.22			0.39	0.31	0.70
Karate Z	oz	4.31					0.03	4.34		4.34
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Artisan	oz	27.20					0.20	27.40		27.40
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Bravo Ultrex	lb	9.56					0.07	9.63		9.63
Sprayer 300-450gal	60' 125hp		0.24	0.09	0.44		0.01	0.78	0.62	1.40
Provost	oz	17.28					0.12	17.40		17.40
Peanut Dig/Invertor	6R-38		2.90	1.15	2.54		0.02	6.61	4.37	10.98
Peanut Harvester	6R-38		17.30	6.71	12.77		0.13	36.91	38.24	75.15
Peanut Dump Cart	6-Row		7.25	1.87	6.33		0.06	15.51	10.74	26.25
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		531.89	34.57	13.87	32.21	0.00	7.42	619.96	71.66	691.62

Note: Cost of production estimates are based on 2010 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, 2011

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	21.42	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	8.10	16.20	71.32	71.32	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	7.00	13.26	26.86	36.07	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.00	4.31	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.66	13.32	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	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	46.00	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	8.29	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.44	4.19	1.32	2.64	1.98	21.64
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	0.24	3.64	0.72	1.44	1.08	27.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.83	0.27	0.54	0.41	9.73
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.77	2.46	0.76	1.36	0.58	0.49
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	83.21	138.72	52.79	126.69	79.68	138.87
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-138.72	-52.79	-126.69	-79.68	851.13
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-83.21	-221.93	-274.72	-401.41	-481.09	370.04

Note: Cost of production estimates are based on 2010 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
60% of all peanuts harvested need drying.
85% of all peanuts harvested need cleaning.
* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
Peanut - runner, 1.8 ton (3600 lb) yield, 12 row-38inch
All Areas, Mississippi, 2011

			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	-208	-184	-159	-134	-109	-85	-60	-35	-10	13	38
			-280	-255	-230	-206	-181	-156	-131	-107	-82	-57	-32
60	1.08	ton	-142	-112	-83	-53	-23	5	35	65	95	124	154
			-214	-184	-154	-125	-95	-65	-35	-6	23	53	82
70	1.26	ton	-76	-41	-6	27	62	96	131	166	200	235	270
			-147	-113	-78	-43	-9	25	59	94	129	163	198
80	1.44	ton	-9	29	69	108	148	188	227	267	306	346	386
			-81	-42	-2	37	76	116	155	195	235	274	314
90	1.62	ton	56	100	145	189	234	279	323	368	412	457	501
			-15	29	73	118	162	207	251	296	341	385	430
100	1.80	ton	122	172	221	271	320	370	419	469	518	568	617
			50	100	149	199	248	298	347	397	446	496	545
110	1.98	ton	188	243	297	352	406	461	515	569	624	678	733
			117	171	226	280	334	389	443	498	552	607	661
120	2.16	ton	255	314	373	433	492	552	611	670	730	789	849
			183	242	302	361	421	480	539	599	658	718	777
130	2.34	ton	321	385	450	514	578	643	707	771	836	900	964
			249	314	378	442	507	571	635	700	764	828	893
140	2.52	ton	387	456	526	595	664	734	803	872	942	1011	1080
			315	385	454	523	593	662	731	801	870	939	1008
150	2.70	ton	453	528	602	676	750	825	899	973	1047	1122	1196
			382	456	530	604	679	753	827	901	976	1050	1124

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 2010 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, 2011

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	231,000	300	8	13.64	11.35	32.59	24.06	68.01	97.79	165.80
Combine (300-349 hp)	325 hp	251,000	300	8	16.73	11.35	39.98	26.14	77.48	106.26	183.74
Combine (350-399 hp)	355 hp	269,000	300	8	18.27	11.35	43.66	28.02	83.03	113.88	196.91
Combine (400-449 hp)	425 hp	302,000	300	8	21.87	11.35	52.28	31.45	95.09	127.85	222.94
Combine (450-499hp)	475 hp	337,000	300	8	24.44	11.35	58.43	35.10	104.88	142.66	247.55
Cotton Stripper	173 hp	145,000	200	8	8.08	11.35	19.31	22.65	53.31	92.07	145.39
Tractor(20-39hp)CB	MFWD 30	23,500	600	8	1.54	11.35	3.69	0.73	15.77	4.57	20.34
Tractor(20-39hp)RB	MFWD 30	17,600	600	8	1.54	11.35	3.69	0.55	15.59	3.42	19.01
Tractor(40-59hp)CB	2WD 50	29,300	600	8	2.57	11.35	6.15	0.91	18.41	5.69	24.11
Tractor(40-59hp)CB	MFWD 50	31,900	600	8	2.57	11.35	6.15	0.99	18.49	6.20	24.70
Tractor(40-59hp)RB	2WD 50	22,500	600	8	2.57	11.35	6.15	0.70	18.20	4.37	22.58
Tractor(40-59hp)RB	MFWD 50	26,600	600	8	2.57	11.35	6.15	0.83	18.33	5.17	23.50
Tractor(60-89hp)CB	2WD 75	40,100	600	8	3.86	11.35	9.22	1.25	21.82	7.80	29.63
Tractor(60-89hp)CB	MFWD 75	43,900	600	8	3.86	11.35	9.22	1.37	21.94	8.53	30.48
Tractor(60-89hp)RB	2WD 75	32,100	600	8	3.86	11.35	9.22	1.00	21.57	6.24	27.82
Tractor(60-89hp)RB	MFWD 75	35,900	600	8	3.86	11.35	9.22	1.12	21.69	6.98	28.68
Tractor(90-119hp)CB	2WD 105	62,800	600	8	5.40	11.35	12.91	1.96	26.22	12.21	38.44
Tractor(90-119hp)CB	MFWD 105	67,600	600	8	5.40	11.35	12.91	2.11	26.37	13.15	39.52
Tractor(90-119hp)RB	2WD 105	48,600	600	8	5.40	11.35	12.91	1.51	25.78	9.45	35.23
Tractor(90-119hp)RB	MFWD 105	53,400	600	8	5.40	11.35	12.91	1.66	25.93	10.38	36.32
Tractor(120-139hp)CB	2WD 130	85,400	600	8	6.69	11.35	15.99	2.66	30.01	16.61	46.62
Tractor(120-139hp)CB	MFWD 130	92,200	600	8	6.69	11.35	15.99	2.88	30.22	17.93	48.15
Tractor(140-159hp)CB	2WD 150	103,300	600	8	7.72	11.35	18.45	3.22	33.03	20.09	53.12
Tractor(140-159hp)CB	MFWD 150	109,900	600	8	7.72	11.35	18.45	3.43	33.23	21.37	54.61
Tractor(160-179hp)CB	2WD 170	109,400	600	8	8.75	11.35	20.91	3.41	35.68	22.21	57.90
Tractor(160-179hp)CB	MFWD 170	128,400	600	8	8.75	11.35	20.91	4.01	36.27	26.07	62.35
Tractor(180-199hp)CB	MFWD 190	127,500	600	8	9.77	11.35	23.37	3.98	38.70	25.89	64.60
Tractor(200-249hp)CB	MFWD 225	161,400	600	8	11.58	11.35	27.67	5.04	44.07	32.78	76.85
Tractor(200-249hp)CB	Track 225	201,400	600	8	11.58	11.35	27.67	6.29	45.32	40.90	86.22
Tractor(250-349hp)CB	4WD 300	196,500	600	8	15.44	11.35	36.90	6.14	54.39	39.90	94.30
Tractor(250-349hp)CB	MFWD 300	200,500	600	8	15.44	11.35	36.90	6.26	54.52	40.72	95.24
Tractor(250-349hp)CB	Track 300	214,200	600	8	15.44	11.35	36.90	6.69	54.94	43.50	98.45
Tractor(350-449hp)CB	4WD 400	231,800	600	8	20.58	11.35	49.20	7.24	67.80	47.07	114.88
Tractor(350-449hp)CB	Track 400	264,700	600	8	20.58	11.35	49.20	8.27	68.82	53.76	122.59
Tractor(450-550hp)CB	4WD 500	272,200	600	8	25.73	11.35	61.50	8.50	81.36	55.28	136.64
Tractor(450-550hp)CB	Track 500	288,300	600	8	25.73	11.35	61.50	9.00	81.86	58.55	140.42
Utility Vehicle	500 CC	6,200	200	8	0.40	11.35	1.04	0.96	13.36	3.93	17.29
Utility Vehicle	600 CC	9,500	200	8	0.50	11.35	1.30	1.48	14.13	6.03	20.17
Utility Vehicle	800 CC	10,800	200	8	0.70	11.35	1.82	1.68	14.86	6.85	21.72

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, 2011

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	75,200	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30(250)	262,000	200	8	12.86	0.327	6.68	10.06	13.40	30.15	54.46	84.62
Cotton Picker	4R-30(350)	350,000	200	8	18.01	0.327	6.68	14.09	17.90	38.68	72.76	111.44
Cotton Picker	4R-38(255)	291,000	200	8	13.12	0.257	5.26	8.08	11.72	25.06	47.63	72.70
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	5.26	11.09	14.13	30.49	57.45	87.95
Cotton Picker	4R2x1(350)	380,000	200	8	18.01	0.172	3.51	7.41	10.23	21.16	41.57	62.74
Cotton Picker	5R-30(250)	285,000	200	8	12.86	0.261	5.34	8.05	11.66	25.06	47.39	72.46
Cotton Picker	5R-36(250)	290,000	200	8	12.86	0.207	4.22	6.37	9.38	19.99	38.15	58.14
Cotton Picker	6R-30(355)	418,000	200	8	18.27	0.218	4.45	9.53	14.25	28.24	57.93	86.17
Cotton Picker	6R-38(355)	417,000	200	8	18.27	0.172	3.51	7.52	11.22	22.26	45.62	67.89
Cotton Picker/Module	4R-38(365)	470,000	200	8	18.78	0.257	5.26	11.57	18.93	35.76	76.93	112.70
Cotton Picker/Module	6R-30(365)	523,000	200	8	18.78	0.218	4.45	9.79	17.83	32.08	72.48	104.57
Cotton Picker/Module	6R-30(500)	570,000	200	8	25.73	0.218	4.45	13.42	19.43	37.31	78.99	116.31
Cotton Picker/Module	6R-38(365)	521,000	200	8	18.78	0.172	3.51	7.73	14.02	25.28	57.00	82.28
Cotton Picker/Module	6R-38(500)	571,000	200	8	25.73	0.172	3.51	10.59	15.37	29.48	62.47	91.96
Dry Applicator SP	70'300cuft	257,000	350	8	16.98	0.015	0.23	0.61	0.20	1.06	1.40	2.47
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.55	0.20	0.08	0.84	0.56	1.40
Sprayer 300-450gal	60' 125hp	96,400	350	8	5.66	0.017	0.27	0.23	0.09	0.60	0.61	1.22
Sprayer 300-450gal	80' 125hp	98,700	350	8	6.43	0.013	0.20	0.20	0.06	0.48	0.47	0.95
Sprayer 600-750gal	60' 175hp	149,000	350	8	9.00	0.017	0.27	0.37	0.14	0.79	0.95	1.75
Sprayer 600-825gal	80' 175hp	149,000	350	8	11.81	0.013	0.20	0.37	0.10	0.68	0.71	1.40
Sprayer 600-825gal	90' 250hp	216,000	350	8	12.73	0.011	0.18	0.35	0.13	0.68	0.92	1.60
Sprayer 800gal	100' 250hp	217,000	350	8	14.15	0.010	0.16	0.35	0.12	0.64	0.83	1.48
Sprayer 800gal	80' 250hp	206,000	350	8	12.86	0.013	0.20	0.40	0.14	0.76	0.98	1.75
Sprayer 1000-1400gal	90' 275hp	240,000	350	8	14.15	0.010	0.16	0.35	0.13	0.66	0.92	1.58
Sprayer 1000gal	100' 300hp	242,000	350	8	15.44	0.010	0.16	0.39	0.13	0.69	0.92	1.62
Sprayer 1200+gal	120' 300hp	258,000	350	8	15.44	0.008	0.13	0.32	0.12	0.58	0.82	1.41
Utility Vehicle	20'	10,750	200	8	0.50	0.052	0.83	0.06	0.08	0.99	0.36	1.35
Utility Vehicle	75"ropewic	6,740	200	8	0.40	0.170	2.70	0.17	0.17	3.06	0.73	3.79

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, 2011

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Bed/Cond./Roll-Fold.	26'	MFWD 190	21,900	160	10	0.072	0.81	1.68	0.39	0.28	3.18	1.07	1.86	6.13
Bed/Cond./Roll-Fold.	30'	MFWD 190	30,400	160	10	0.062	0.70	1.46	0.47	0.24	2.89	1.29	1.61	5.81
Bed/Cond./Roll-Fold.	40'	MFWD 225	30,700	160	10	0.046	0.53	1.29	0.35	0.23	2.42	0.98	1.53	4.94
Bed/Cond./Roll-Rigid	21'	MFWD 190	16,500	160	10	0.089	1.01	2.08	0.36	0.35	3.82	1.00	2.31	7.14
Bed/Cond./Roll-Rigid	26'	MFWD 190	18,800	160	10	0.072	0.81	1.68	0.33	0.28	3.13	0.92	1.86	5.92
Bedder Roller Fold.	8R-38	MFWD 190	23,000	160	10	0.074	0.84	1.73	0.42	0.29	3.29	1.16	1.91	6.37
Bedder Roller Fold.	12R-30	MFWD 225	24,800	160	10	0.062	0.70	1.72	0.38	0.31	3.14	1.05	2.04	6.25
Bedder Roller-Fold.	12R-38	MFWD 225	27,000	160	10	0.049	0.56	1.36	0.33	0.24	2.50	0.91	1.61	5.03
Bedder Roller-Fold.	16R-30	MFWD 225	28,200	160	10	0.046	0.53	1.29	0.33	0.23	2.39	0.90	1.53	4.83
Bedder Roller-Rigid	8R-38	MFWD 190	17,100	160	10	0.074	0.84	1.73	0.31	0.29	3.18	0.86	1.91	5.97
Blade-Box	6'-7'	2WD 130	1,000	200	20	0.020	0.22	0.31	0.00	0.05	0.60	0.00	0.33	0.94
Blade-Box	8'-10'	2WD 50	4,440	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	2WD 50	6,170	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	2WD 50	1,150	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	2WD 50	3,060	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	2WD 50	5,930	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-30(250)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-30(325)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-38(255)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R-38(325)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R2x1(350)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy	5R-30(255)	MFWD 190	23,000	200	10	0.261	2.97	6.12	1.50	1.04	11.64	3.17	6.78	21.60
Boll Buggy	5R-38(250)	MFWD 190	23,000	200	10	0.207	2.35	4.84	1.19	0.82	9.21	2.51	5.36	17.09
Boll Buggy	6R-30(325)	MFWD 190	23,000	200	10	0.218	2.47	5.10	1.25	0.86	9.70	2.64	5.65	18.00
Boll Buggy	6R-38(330)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy-Stripper	13' Bcast	MFWD 150	23,000	200	10	0.251	2.85	4.64	1.44	0.86	9.81	3.05	5.38	18.25
Boll Buggy-Stripper	16' Bcast	MFWD 150	23,000	200	10	0.204	2.32	3.77	1.17	0.70	7.97	2.48	4.37	14.83
Boll Buggy-Stripper	19' Bcast	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	4R-36	MFWD 150	23,000	200	10	0.272	3.09	5.03	1.56	0.93	10.63	3.30	5.83	19.77
Boll Buggy-Stripper	4R-38	MFWD 150	23,000	200	10	0.257	2.92	4.75	1.48	0.88	10.05	3.12	5.51	18.68
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	5R-30	MFWD 150	23,000	200	10	0.261	2.97	4.83	1.50	0.89	10.21	3.17	5.59	18.98
Boll Buggy-Stripper	5R-38	MFWD 150	23,000	200	10	0.207	2.35	3.82	1.19	0.71	8.07	2.51	4.42	15.02
Boll Buggy-Stripper	6R-30	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	6R-38	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	8R-30	MFWD 150	23,000	200	10	0.163	1.85	3.02	0.94	0.56	6.38	1.98	3.49	11.86
Boll Buggy-Stripper	8R-36/38	MFWD 150	23,000	200	10	0.129	1.46	2.38	0.74	0.44	5.04	1.56	2.76	9.38
Chisel Plow-Folding	16'	2WD 130	19,900	150	12	0.115	1.31	1.84	0.83	0.30	4.29	1.49	1.91	7.71
Chisel Plow-Folding	24'	MFWD 190	30,300	150	12	0.076	0.86	1.78	0.83	0.30	3.79	1.50	1.97	7.28
Chisel Plow-Folding	32'	MFWD 225	35,100	150	12	0.057	0.65	1.59	0.73	0.29	3.27	1.32	1.89	6.49
Chisel Plow-Folding	42'	MFWD 225	39,300	150	12	0.044	0.49	1.21	0.62	0.22	2.56	1.12	1.44	5.13
Chisel Plow-Folding	50'	MFWD 225	50,000	150	10	0.036	0.41	1.02	0.80	0.18	2.43	1.34	1.21	4.99
Chisel Plow-Folding	61'	MFWD 225	64,700	150	12	0.030	0.34	0.83	0.70	0.15	2.04	1.27	0.99	4.31
Chisel Plow-Rigid	10'	MFWD 170	7,808	150	12	0.184	2.09	3.86	0.52	0.74	7.22	0.94	4.82	12.98
Chisel Plow-Rigid	15'	2WD 130	8,072	150	12	0.123	1.39	1.97	0.35	0.32	4.05	0.64	2.04	6.75
Chisel Plow-Rigid	20'	MFWD 225	8,271	150	12	0.102	1.16	2.84	0.30	0.51	4.83	0.55	3.36	8.75
Chisel Plow-Rigid	24'	MFWD 190	9,865	150	12	0.077	0.87	1.80	0.27	0.30	3.25	0.49	1.99	5.74
Chisel-Harrow	21 shank	2WD 190	9,500	150	12	0.088	0.99	2.05	0.30	0.30	3.66	0.54	1.96	6.17
Chisel-Harrow	27 shank	MFWD 225	11,600	150	12	0.068	0.77	1.89	0.28	0.34	3.30	0.51	2.24	6.06
Coulter-Chisel-Harro	21 shank	2WD 190	17,200	150	12	0.088	0.99	2.05	0.54	0.30	3.90	0.98	1.96	6.85
Coulter-Chisel-Harro	27 shank	MFWD 225	21,500	150	12	0.068	0.77	1.89	0.53	0.34	3.54	0.95	2.24	6.75
Cultivate	4R-30	2WD 105	9,370	150	10	0.206	2.34	2.66	0.51	0.40	5.92	1.40	2.51	9.85
Cultivate	4R-38	2WD 105	9,440	150	10	0.162	1.84	2.09	0.40	0.24	4.59	1.11	1.53	7.24
Cultivate	6R-30	MFWD 150	13,190	150	10	0.137	1.56	2.53	0.48	0.47	5.05	1.32	2.93	9.31
Cultivate	6R-38	MFWD 150	13,900	150	10	0.108	1.23	2.00	0.40	0.37	4.01	1.10	2.32	7.43
Cultivate	8R-30	MFWD 190	17,400	150	10	0.103	1.17	2.41	0.47	0.41	4.47	1.30	2.67	8.44
Cultivate	8R-38	MFWD 190	19,600	150	10	0.073	0.83	1.72	0.38	0.29	3.23	1.05	1.90	6.19
Cultivate	8R-38 2x1	MFWD 190	26,600	150	10	0.054	0.61	1.26	0.38	0.21	2.48	1.05	1.40	4.94
Cultivate	10R-30	MFWD 225	24,900	150	10	0.082	0.93	2.28	0.54	0.41	4.18	1.49	2.70	8.38
Cultivate	12R-30	MFWD 225	33,200	150	10	0.068	0.78	1.90	0.60	0.34	3.63	1.66	2.25	7.55
Cultivate	12R-38	MFWD 225	32,000	150	10	0.054	0.61	1.50	0.46	0.27	2.85	1.26	1.77	5.90
Cultivate	16R-30	MFWD 225	39,300	150	10	0.051	0.58	1.42	0.54	0.26	2.81	1.47	1.69	5.98
Cultivate & Post	4R-30	2WD 105	14,400	150	10	0.220	3.49	2.84	0.84	0.33	7.51	2.30	2.07	11.90
Cultivate & Post	4R-38	2WD 105	14,400	150	10	0.173	2.75	2.23	0.66	0.26	5.91	1.81	1.63	9.37
Cultivate & Post	6R-30	MFWD 150	18,200	150	10	0.146	2.32	2.70	0.71	0.50	6.25	1.94	3.13	11.33
Cultivate & Post	6R-38	MFWD 150	18,900	150	10	0.115	1.83	2.13	0.58	0.39	4.95	1.59	2.47	9.02
Cultivate & Post	8R-30	MFWD 190	22,400	150	10	0.110	1.74	2.57	0.65	0.43	5.41	1.79	2.84	10.05
Cultivate & Post	8R-38	MFWD 190	24,600	150	10	0.086	1.38	2.03	0.57	0.34	4.33	1.55	2.25	8.14
Cultivate & Post	8R-38 2x1	MFWD 190	33,100	150	10	0.057	0.91	1.35	0.51	0.23	3.01	1.39	1.49	5.91
Cultivate & Post	10R-30	MFWD 225	29,900	150	10	0.088	1.39	2.43	0.70	0.44	4.97	1.91	2.88	9.78
Cultivate & Post	12R-30	MFWD 225	38,100	150	10	0.073	1.16	2.02	0.74	0.36	4.30	2.03	2.40	8.74
Cultivate & Post	12R-38	MFWD 225	38,500	150	10	0.057	0.91	1.60	0.59	0.29	3.40	1.62	1.89	6.93
Cultivate & Post	16R-30	MFWD 225	44,300	150	10	0.055	0.87	1.52	0.64	0.27	3.32	1.77	1.80	6.90
Disk & Incorporate	14'	2WD 130	25,600	200	10	0.149	2.37	2.39	1.14	0.39	6.31	2.09	2.48	10.90
Disk & Incorporate	20'	MFWD 190	35,900	180	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disk & Incorporate	24'	MFWD 190	38,000	200	10	0.087	1.38	2.04	0.99	0.34	4.76	1.81	2.26	8.84

(continuted)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Disk & Incorporate	28'	MFWD 225	44,200	200	10	0.074	1.18	2.07	0.99	0.37	4.62	1.80	2.45	8.89
Disk & Incorporate	32'	MFWD 225	49,800	200	10	0.065	1.03	1.81	0.97	0.33	4.16	1.78	2.14	8.09
Disk Bed (Hipper)	4R-38	MFWD 150	8,420	160	10	0.147	1.67	2.72	0.31	0.50	5.21	0.84	3.15	9.22
Disk Bed (Hipper)	6R-30	MFWD 170	11,200	160	10	0.125	1.41	2.61	0.35	0.50	4.88	0.95	3.25	9.10
Disk Bed (Hipper)	6R-38	MFWD 170	11,200	160	10	0.098	1.12	2.06	0.27	0.39	3.85	0.75	2.57	7.18
Disk Bed (Hipper)	8R-30	MFWD 190	14,200	160	10	0.093	1.06	2.19	0.33	0.37	3.96	0.90	2.42	7.29
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	23,200	160	10	0.049	0.56	1.15	0.28	0.19	2.19	0.78	1.27	4.25
Disk Bed (Hipper)	10R-30	MFWD 225	19,000	160	10	0.075	0.85	2.07	0.35	0.37	3.66	0.97	2.45	7.09
Disk Bed (Hipper)	10R-38	MFWD 225	19,600	160	10	0.059	0.67	1.63	0.28	0.29	2.89	0.79	1.93	5.62
Disk Bed (Hipper)	12R-30	MFWD 225	22,300	160	10	0.062	0.70	1.72	0.34	0.31	3.10	0.95	2.04	6.10
Disk Bed (Hipper)	12R-38	MFWD 225	23,200	160	10	0.049	0.56	1.36	0.28	0.24	2.46	0.78	1.61	4.86
Disk Bed (Hipper)Fld	8R-38	MFWD 190	15,000	160	10	0.074	0.84	1.73	0.27	0.29	3.14	0.75	1.91	5.82
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	15,300	160	10	0.074	0.84	1.73	0.28	0.29	3.15	0.77	1.91	5.84
Disk Bed w/roller	8R-30	MFWD 190	18,000	160	10	0.093	1.06	2.19	0.42	0.37	4.05	1.15	2.42	7.63
Disk Bed w/roller	12R-30	MFWD 225	30,700	160	10	0.062	0.70	1.72	0.47	0.31	3.23	1.31	2.04	6.59
Disk Bed w/roller	8R-38	MFWD 190	18,000	160	10	0.074	0.84	1.73	0.33	0.29	3.20	0.91	1.91	6.03
Disk Harrow	14'	2WD 130	20,600	180	10	0.140	1.59	2.24	0.80	0.37	5.01	1.75	2.33	9.10
Disk Harrow	20'	MFWD 190	30,943	180	10	0.098	1.11	2.29	0.84	0.39	4.64	1.84	2.54	9.03
Disk Harrow	24'	MFWD 190	33,100	180	10	0.081	0.92	1.91	0.75	0.32	3.92	1.64	2.11	7.68
Disk Harrow	28'	MFWD 225	39,200	180	10	0.070	0.79	1.94	0.76	0.35	3.85	1.67	2.29	7.82
Disk Harrow	32'	MFWD 225	44,800	180	10	0.061	0.69	1.69	0.76	0.30	3.46	1.67	2.01	7.15
Disk Harrow	42'	MFWD 225	87,000	180	10	0.046	0.53	1.29	1.13	0.23	3.19	2.47	1.53	7.19
Disk Harrow 40-100hp	14'	2WD 75	14,200	180	10	0.140	1.59	1.29	0.55	0.14	3.58	1.21	0.87	5.66
Disk Heavy	14'	MFWD 150	20,600	180	10	0.145	1.65	2.69	0.83	0.50	5.68	1.82	3.12	10.63
Disk Heavy	20'	MFWD 170	30,943	180	10	0.097	1.10	2.03	0.83	0.39	4.36	1.82	2.53	8.73
Disk Heavy	28'	MFWD 190	39,200	180	10	0.075	0.85	1.76	0.82	0.30	3.75	1.80	1.95	7.51
Disk Ripper	15'	MFWD 225	35,200	180	10	0.136	1.54	3.77	1.33	0.68	7.33	2.91	4.46	14.71
Ditcher		2WD 130	4,390	200	10	0.020	0.22	0.31	0.03	0.05	0.63	0.04	0.33	1.01
Ditcher (1m/160a)		2WD 130	4,390	200	10	0.009	0.10	0.14	0.01	0.02	0.29	0.02	0.15	0.47
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.45	2.85	1.39	0.53	7.23	1.62	3.30	12.16
Fert Appl (Liquid)	6R-30	MFWD 170	16,600	150	8	0.130	2.07	2.73	1.44	0.52	6.79	1.69	3.41	11.89
Fert Appl (Liquid)	6R-38	MFWD 170	14,300	150	8	0.103	1.64	2.16	0.98	0.41	5.20	1.15	2.69	9.05
Fert Appl (Liquid)	8R-30	MFWD 190	14,400	150	8	0.098	1.55	2.29	0.94	0.39	5.18	1.10	2.54	8.83
Fert Appl (Liquid)	8R-38	MFWD 190	16,000	150	8	0.077	1.23	1.81	0.82	0.30	4.18	0.96	2.01	7.16
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	15,500	150	8	0.051	0.82	1.20	0.53	0.20	2.76	0.62	1.33	4.73
Fert Appl (Liquid)	10R-30	MFWD 225	15,000	150	8	0.078	1.24	2.17	0.78	0.39	4.60	0.91	2.57	8.09
Fert Appl (Liquid)	10R-38	MFWD 225	18,100	150	8	0.061	0.98	1.71	0.74	0.31	3.75	0.87	2.03	6.66
Fert Appl (Liquid)	12R-30	MFWD 225	18,100	150	8	0.078	1.24	2.17	0.94	0.39	4.76	1.10	2.57	8.44
Fert Appl (Liquid)	12R-38	MFWD 225	15,500	150	8	0.051	0.82	1.43	0.53	0.26	3.04	0.62	1.69	5.36
Field Cult & Inc	42'	MFWD 225	54,200	100	10	0.037	0.59	1.04	0.51	0.19	2.34	2.23	1.23	5.82
Field Cult & Inc	50'	MFWD 225	64,000	100	10	0.031	0.50	0.87	0.50	0.16	2.04	2.22	1.04	5.31
Field Cult & Inc Fld	24'	MFWD 170	28,600	100	10	0.066	1.04	1.38	0.47	0.26	3.17	2.06	1.72	6.96
Field Cult & Inc Fld	32'	MFWD 190	38,500	100	10	0.049	0.78	1.15	0.47	0.19	2.62	2.08	1.28	5.99
Field Cult & Inc Rdg	12'	2WD 150	15,600	100	10	0.132	2.09	2.43	0.51	0.42	5.48	2.25	2.65	10.39
Field Cultivate Fld	24'	MFWD 170	23,600	100	10	0.062	0.70	1.30	0.36	0.24	2.62	1.60	1.62	5.85
Field Cultivate Fld	32'	MFWD 190	33,500	100	10	0.046	0.52	1.09	0.39	0.18	2.19	1.70	1.20	5.11
Field Cultivate Fld	42'	MFWD 225	47,600	100	10	0.035	0.40	0.98	0.42	0.17	1.98	1.85	1.16	5.00
Field Cultivate Fld	50'	MFWD 225	56,500	100	10	0.029	0.33	0.82	0.42	0.15	1.73	1.84	0.97	4.56
Field Cultivate Rdg	12'	2WD 150	10,600	100	10	0.124	1.41	2.29	0.32	0.40	4.43	1.44	2.50	8.38
Grain Cart Corn	500 bu	MFWD 190	21,300	200	12	0.031	0.36	0.74	0.18	0.12	1.42	0.33	0.82	2.57
Grain Cart Corn	700 bu	MFWD 190	27,600	200	12	0.025	0.28	0.58	0.18	0.09	1.15	0.33	0.64	2.13
Grain Cart Corn	1000 bu	MFWD 225	46,800	200	12	0.025	0.28	0.69	0.31	0.12	1.41	0.57	0.81	2.80
Grain Cart Rice	500 bu	MFWD 190	21,300	200	12	0.062	0.70	1.46	0.36	0.24	2.77	0.65	1.61	5.04
Grain Cart Rice	700 bu	MFWD 190	27,600	200	12	0.055	0.62	1.28	0.41	0.21	2.54	0.74	1.42	4.70
Grain Cart Rice	1000 bu	MFWD 190	46,800	200	12	0.045	0.52	1.07	0.58	0.18	2.35	1.04	1.18	4.58
Grain Cart Soybean	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Soybean	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Soybean	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Cart Wht/Sor	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Wht/Sor	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Wht/Sor	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Drill	8'	2WD 130	15,300	150	8	0.235	4.81	3.76	1.35	0.62	10.56	2.68	3.91	17.16
Grain Drill	10'	2WD 130	16,500	150	8	0.188	3.84	3.01	1.16	0.50	8.53	2.31	3.13	13.98
Grain Drill	12'	2WD 130	17,500	150	8	0.157	3.20	2.51	1.03	0.41	7.17	2.04	2.61	11.82
Grain Drill	15'	MFWD 150	21,700	150	8	0.125	2.56	2.31	1.02	0.43	6.34	2.02	2.68	11.05
Grain Drill	20'	MFWD 170	31,300	150	8	0.094	1.92	1.97	1.10	0.37	5.38	2.19	2.45	10.03
Grain Drill	24'	MFWD 190	51,300	150	8	0.078	1.60	1.83	1.51	0.31	5.26	2.99	2.03	10.29
Grain Drill	30'	MFWD 225	51,900	150	8	0.062	1.28	1.73	1.22	0.31	4.56	2.42	2.06	9.05
Grain Drill	35'	MFWD 225	67,500	150	8	0.053	1.09	1.49	1.36	0.27	4.22	2.70	1.76	8.69
Grain Drill & Pre	8'	2WD 130	20,300	150	8	0.253	5.18	4.05	1.93	0.67	11.85	3.83	4.21	19.90
Grain Drill & Pre	10'	2WD 130	21,500	150	8	0.203	4.14	3.24	1.63	0.54	9.57	3.24	3.37	16.19
Grain Drill & Pre	12'	2WD 130	22,500	150	8	0.169	3.45	2.70	1.42	0.45	8.03	2.83	2.81	13.68
Grain Drill & Pre	15'	MFWD 150	26,700	150	8	0.135	2.76	2.49	1.35	0.46	7.08	2.68	2.89	12.66
Grain Drill & Pre	20'	MFWD 170	36,300	150	8	0.101	2.07	2.12	1.38	0.40	5.98	2.74	2.64	11.37
Grain Drill & Pre	24'	MFWD 190	56,200	150	8	0.084	1.72	1.97	1.78	0.33	5.82	3.53	2.19	11.55
Grain Drill & Pre	30'	MFWD 225	56,900	150	8	0.067	1.38	1.87	1.44	0.34	5.04	2.86	2.21	10.12
Grain Drill & Pre	35'	MFWD 225	72,500	150	8	0.058	1.18	1.60	1.57	0.29	4.66	3.12	1.90	9.69
Grain Drill & Pre T	8R-38	MFWD 225	45,800	150	8	0.062	1.28	1.73	1.07	0.31	4.41	2.14	2.06	8.62
Harrow - Rigid	21'	2WD 150	3,880	200	10	0.073	0.83	1.36	0.10	0.23	2.54	0.15	1.48	4.18
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.10	2.26	0.16	0.38	3.92	0.26	2.51	6.70

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Harrow - Folding	24'	MFWD 190	9,020	200	10	0.064	0.73	1.51	0.20	0.25	2.70	0.31	1.67	4.70
Harrow - Folding	30'	MFWD 190	9,750	200	10	0.051	0.58	1.20	0.17	0.20	2.18	0.27	1.34	3.79
Harrow - Folding	40'	MFWD 190	12,000	200	10	0.038	0.44	0.90	0.16	0.15	1.66	0.25	1.00	2.92
Harrow - Folding	48'	MFWD 225	17,500	200	10	0.032	0.36	0.89	0.19	0.16	1.62	0.30	1.06	2.99
Harrow - Rigid	13'	2WD 130	2,760	200	10	0.119	1.35	1.91	0.11	0.31	3.70	0.18	1.98	5.86
Header - Corn	6R-30	265 hp	37,000	300	8	0.170	1.93	5.55	1.57	4.09	13.15	2.45	16.65	32.25
Header - Corn	6R-38	265 hp	38,500	300	8	0.134	1.52	4.38	1.29	3.23	10.43	2.01	13.14	25.59
Header - Corn	8R-30	265 hp	49,100	300	8	0.127	1.44	4.16	1.56	3.07	10.25	2.43	12.48	25.18
Header - Corn	8R-38	325 hp	49,200	300	8	0.100	1.14	4.03	1.24	2.63	9.06	1.93	10.72	21.72
Header - Corn	12R-20	325 hp	66,700	300	8	0.127	1.44	5.10	2.12	3.33	12.02	3.31	13.57	28.90
Header - Corn	12R-30	325 hp	75,300	300	8	0.085	0.96	3.40	1.60	2.22	8.19	2.49	9.04	19.74
Header - Draper (CL)	25' Rigid	265 hp	35,000	300	8	0.203	2.30	6.62	1.62	4.88	15.44	2.64	19.85	37.94
Header - Draper (CL)	30' Rigid	325 hp	35,700	300	8	0.169	1.92	6.76	1.38	4.42	14.49	2.24	17.98	34.72
Header - Draper (CL)	36' Rigid	355 hp	40,400	300	8	0.141	1.60	6.15	1.30	3.95	13.01	2.11	16.06	31.19
Header - Draper (SL)	25' Rigid	325 hp	35,000	300	8	0.176	1.99	7.03	1.41	4.60	15.04	2.29	18.70	36.04
Header - Draper (SL)	30' Rigid	325 hp	35,700	300	8	0.146	1.66	5.86	1.19	3.83	12.56	1.94	15.58	30.09
Header - Draper (SL)	36' Rigid	355 hp	40,400	300	8	0.122	1.38	5.33	1.13	3.42	11.28	1.83	13.91	27.03
Header - Rice (CL)	25' Rigid	325 hp	32,051	300	8	0.253	2.88	10.15	2.03	6.63	21.70	3.16	26.97	51.84
Header - Rice (CL)	30' Rigid	325 hp	41,263	300	8	0.211	2.40	8.45	2.18	5.53	18.57	3.39	22.47	44.44
Header - Rice (SL)	25' Rigid	325 hp	32,051	300	8	0.220	2.49	8.79	1.76	5.75	18.80	2.74	23.37	44.92
Header - Rice (SL)	30' Rigid	325 hp	41,263	300	8	0.183	2.08	7.33	1.89	4.79	16.09	2.94	19.48	38.51
Header -RiceStrp(CL)	20'	265 hp	39,100	300	8	0.253	2.88	8.27	2.48	6.10	19.74	3.86	24.82	48.43
Header -RiceStrp(CL)	24'	325 hp	43,000	300	8	0.211	2.40	8.45	2.27	5.53	18.66	3.53	22.47	44.68
Header -RiceStrp(CL)	32'	325 hp	47,400	300	8	0.158	1.80	6.34	1.88	4.14	14.17	2.92	16.85	33.95
Header -RiceStrp(SL)	20'	265 hp	39,100	300	8	0.220	2.49	7.17	2.15	5.29	17.11	3.34	21.51	41.97
Header -RiceStrp(SL)	24'	325 hp	43,000	300	8	0.183	2.08	7.33	1.97	4.79	16.17	3.06	19.48	38.72
Header -RiceStrp(SL)	32'	325 hp	47,400	300	8	0.137	1.56	5.49	1.62	3.59	12.28	2.53	14.61	29.42
Header -Soybean	22' Flex	265 hp	25,200	300	8	0.116	1.31	3.78	0.73	2.79	8.62	1.13	11.35	21.11
Header -Soybean	25' Flex	325 hp	27,300	300	8	0.102	1.15	4.08	0.69	2.67	8.61	1.08	10.85	20.55
Header -Soybean	30' Flex	325 hp	31,600	300	8	0.085	0.96	3.40	0.67	2.22	7.26	1.04	9.04	17.36
Header -Soybean	35' Flex	355 hp	36,700	300	8	0.072	0.82	3.18	0.66	2.04	6.72	1.04	8.31	16.08
Header Wheat/Sorghum	22' Rigid	265 hp	22,700	300	8	0.116	1.31	3.78	0.65	2.79	8.55	1.02	11.35	20.93
Header Wheat/Sorghum	25' Rigid	325 hp	23,900	300	8	0.102	1.15	4.08	0.61	2.67	8.52	0.95	10.85	20.33
Header Wheat/Sorghum	30' Rigid	325 hp	27,200	300	8	0.085	0.96	3.40	0.57	2.22	7.17	0.90	9.04	17.12
Header-Cotton Bcast	13'	173 hp	18,000	200	8	0.251	5.13	4.86	0.84	5.70	16.55	2.64	23.18	42.39
Header-Cotton-Bcast	16'	173 hp	21,100	200	8	0.204	4.17	3.95	0.80	4.63	13.57	2.51	18.84	34.93
Header-Cotton-Bcast	19'	173 hp	22,800	200	8	0.172	3.51	3.32	0.73	3.90	11.48	2.29	15.86	29.64
Header-Cotton-Brush	4R-30 2x1	173 hp	28,900	200	8	0.218	4.45	4.21	1.18	4.94	14.79	3.68	20.09	38.57
Header-Cotton-Brush	4R-36	173 hp	28,000	200	8	0.272	5.56	5.26	1.43	6.18	18.45	4.45	25.12	48.02
Header-Cotton-Brush	4R-38	173 hp	27,900	200	8	0.257	5.26	4.97	1.34	5.84	17.42	4.19	23.73	45.36
Header-Cotton-Brush	4R-38 2x1	173 hp	29,300	200	8	0.172	3.51	3.32	0.94	3.90	11.69	2.94	15.86	30.50
Header-Cotton-Brush	5R-30	173 hp	35,200	200	8	0.261	5.34	5.05	1.72	5.93	18.06	5.38	24.11	47.56
Header-Cotton-Brush	5R-38	173 hp	36,200	200	8	0.207	4.22	4.00	1.40	4.69	14.33	4.37	19.07	37.78
Header-Cotton-Brush	6R-30	173 hp	43,300	200	8	0.218	4.45	4.21	1.77	4.94	15.38	5.51	20.09	40.99
Header-Cotton-Brush	6R-38	173 hp	44,500	200	8	0.172	3.51	3.32	1.43	3.90	12.18	4.47	15.86	32.52
Header-Cotton-Brush	8R-30	173 hp	59,600	200	8	0.163	3.34	3.16	1.82	3.70	12.03	5.69	15.07	32.80
Header-Cotton-Brush	8R-36/38	173 hp	61,200	200	8	0.129	2.64	2.49	1.48	2.93	9.55	4.62	11.91	26.09
Land Plane	50'x16'	MFWD 190	10,300	200	10	0.151	1.72	3.54	0.31	0.60	6.18	0.85	3.92	10.96
Levee Pull & Seed	8 Blade	MFWD 170	7,540	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Pull (1m/80a)	8 blade	MFWD 170	6,760	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Splitter (1/80	8 blade	MFWD 150	6,760	100	10	0.004	0.04	0.07	0.00	0.01	0.14	0.03	0.08	0.26
Middle Buster	4R-38	MFWD 150	9,550	160	8	0.228	2.59	4.21	0.51	0.78	8.10	1.66	4.88	14.64
Middle Buster	6R-38	MFWD 150	11,700	160	8	0.120	1.36	2.21	0.32	0.41	4.32	1.07	2.56	7.96
Middle Buster	8R-30	MFWD 190	17,110	160	8	0.114	1.29	2.66	0.45	0.45	4.87	1.48	2.95	9.32
Middle Buster	8R-38	MFWD 190	15,500	160	8	0.090	1.02	2.10	0.32	0.35	3.82	1.06	2.33	7.22
Middle Buster	8R-38 2x1	MFWD 190	25,900	160	8	0.060	0.68	1.40	0.36	0.23	2.69	1.18	1.55	5.43
Middle Buster	10R-30	MFWD 225	27,000	160	8	0.091	1.03	2.52	0.57	0.46	4.60	1.87	2.99	9.47
Middle Buster	10R-38	MFWD 225	29,500	160	8	0.072	0.81	1.99	0.49	0.36	3.67	1.61	2.36	7.65
Middle Buster	12R-38	MFWD 225	25,900	160	8	0.060	0.68	1.66	0.36	0.30	3.01	1.18	1.97	6.16
Module Builder	4R-30(250)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-30(325)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-38(255)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R-38(325)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder	5R-30(255)	MFWD 190	30,500	200	10	0.261	5.34	6.12	1.99	1.04	14.50	4.21	6.78	25.50
Module Builder	5R-38(250)	MFWD 190	30,500	200	10	0.207	4.22	4.84	1.57	0.82	11.47	3.33	5.36	20.17
Module Builder	6R-30(325)	MFWD 190	30,500	200	10	0.218	4.45	5.10	1.66	0.86	12.08	3.51	5.65	21.25
Module Builder	6R-38(330)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	13' Bcast	MFWD 150	30,500	200	10	0.251	5.13	4.64	1.92	0.86	12.57	4.05	5.38	22.00
Module Builder-Strip	16' Bcast	MFWD 150	30,500	200	10	0.204	4.17	3.77	1.56	0.70	10.21	3.29	4.37	17.88
Module Builder-Strip	19' Bcast	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	4R-30 2x1	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07
Module Builder-Strip	4R-36	MFWD 150	30,500	200	10	0.272	5.56	5.03	2.08	0.93	13.61	4.38	5.83	23.84
Module Builder-Strip	4R-38	MFWD 150	30,500	200	10	0.257	5.26	4.75	1.96	0.88	12.86	4.14	5.51	22.52
Module Builder-Strip	4R-38 2x1	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	5R-30	MFWD 150	30,500	200	10	0.261	5.34	4.83	1.99	0.89	13.07	4.21	5.59	22.88
Module Builder-Strip	5R-38	MFWD 150	30,500	200	10	0.207	4.22	3.82	1.57	0.71	10.34	3.33	4.42	18.10
Module Builder-Strip	6R-30	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Module Builder-Strip	6R-38	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	8R-36/38	MFWD 190	30,500	200	10	0.129	2.64	3.02	0.98	0.51	7.16	2.08	3.35	12.60
NT Grain Drill	6'	MFWD 170	18,800	150	8	0.327	6.68	6.84	2.30	1.31	17.15	4.57	8.53	30.26
NT Grain Drill	10'	2WD 130	28,500	150	8	0.235	4.81	3.76	2.51	0.62	11.72	4.99	3.91	20.64
NT Grain Drill	12'	2WD 130	35,100	150	8	0.163	3.34	2.61	2.15	0.43	8.55	4.27	2.71	15.54
NT Grain Drill	15'	MFWD 150	38,600	150	8	0.130	2.67	2.41	1.89	0.44	7.43	3.75	2.79	13.99
NT Grain Drill	20'	MFWD 170	55,200	150	8	0.098	2.00	2.05	2.03	0.39	6.48	4.03	2.56	13.07
NT Grain Drill	24'	MFWD 190	74,200	150	8	0.081	1.67	1.91	2.27	0.32	6.18	4.51	2.11	12.82
NT Grain Drill	30'	MFWD 225	94,400	150	8	0.065	1.33	1.81	2.31	0.33	5.79	4.59	2.14	12.54
NT Grain Drill & Pre	6'	MFWD 170	23,800	150	8	0.352	7.19	7.37	3.14	1.41	19.13	6.24	9.19	34.56
NT Grain Drill & Pre	10'	2WD 130	33,400	150	8	0.211	4.31	3.38	2.64	0.56	10.91	5.25	3.51	19.68
NT Grain Drill & Pre	12'	2WD 130	40,100	150	8	0.176	3.59	2.81	2.65	0.47	9.53	5.25	2.92	17.72
NT Grain Drill & Pre	15'	MFWD 150	43,600	150	8	0.141	2.87	2.60	2.30	0.48	8.27	4.57	3.01	15.85
NT Grain Drill & Pre	20'	MFWD 170	60,100	150	8	0.105	2.15	2.21	2.38	0.42	7.17	4.72	2.75	14.66
NT Grain Drill & Pre	24'	MFWD 190	79,100	150	8	0.088	1.79	2.06	2.61	0.35	6.82	5.18	2.28	14.29
NT Grain Drill & Pre	30'	MFWD 225	99,400	150	8	0.070	1.43	1.95	2.62	0.35	6.37	5.21	2.31	13.89
NT Plant&Pre-Folding	8R-38	MFWD 170	44,300	150	8	0.083	1.70	1.74	1.38	0.33	5.17	2.75	2.18	10.11
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	72,400	150	8	0.055	1.13	1.16	1.51	0.22	4.03	2.99	1.45	8.48
NT Plant&Pre-Folding	12R-20	MFWD 190	66,700	150	8	0.105	2.15	2.47	2.64	0.42	7.69	5.24	2.73	15.68
NT Plant&Pre-Folding	12R-30	MFWD 190	69,100	150	8	0.070	1.43	1.64	1.82	0.28	5.19	3.62	1.82	10.64
NT Plant&Pre-Folding	12R-38	MFWD 190	72,400	150	8	0.055	1.13	1.30	1.51	0.22	4.17	2.99	1.44	8.61
NT Plant&Pre-Folding	16R-30	MFWD 190	96,400	150	8	0.052	1.07	1.23	1.91	0.21	4.43	3.79	1.36	9.59
NT Plant&Pre-Folding	23R-15	MFWD 190	101,000	150	8	0.073	1.49	1.71	2.78	0.29	6.29	5.51	1.90	13.71
NT Plant&Pre-Folding	24R-15	MFWD 225	117,000	150	8	0.070	1.43	1.95	3.09	0.35	6.84	6.13	2.31	15.28
NT Plant&Pre-Folding	24R-20	MFWD 190	127,000	150	8	0.052	1.07	1.23	2.51	0.21	5.04	4.99	1.36	11.40
NT Plant&Pre-Folding	24R-30	MFWD 190	151,000	150	8	0.035	0.71	0.82	1.99	0.14	3.68	3.96	0.91	8.55
NT Plant&Pre-Folding	31R-15	MFWD 225	137,000	150	8	0.054	1.11	1.51	2.80	0.27	5.71	5.57	1.79	13.07
NT Plant&Pre-Folding	32R-15	MFWD 225	149,000	150	8	0.052	1.07	1.46	2.95	0.26	5.76	5.86	1.73	13.35
NT Plant&Pre-Folding	36R-20	MFWD 225	167,000	150	8	0.035	0.71	0.97	2.20	0.17	4.08	4.38	1.15	9.61
NT Plant&Pre-Rigid	4R-30	2WD 130	25,100	150	8	0.211	4.31	3.38	1.99	0.56	10.25	3.94	3.51	17.72
NT Plant&Pre-Rigid	4R-38	2WD 130	26,600	150	8	0.166	3.39	2.66	1.66	0.44	8.16	3.29	2.76	14.23
NT Plant&Pre-Rigid	6R-30	MFWD 150	33,600	150	8	0.141	2.87	2.60	1.77	0.48	7.74	3.52	3.01	14.28
NT Plant&Pre-Rigid	6R-38	MFWD 150	31,700	150	8	0.111	2.27	2.05	1.32	0.38	6.03	2.62	2.38	11.03
NT Plant&Pre-Rigid	8R-30	MFWD 170	40,200	150	8	0.105	2.15	2.21	1.59	0.42	6.38	3.16	2.75	12.31
NT Plant&Pre-Rigid	8R-38	MFWD 170	37,100	150	8	0.083	1.70	1.74	1.16	0.33	4.95	2.30	2.18	9.44
NT Plant&Pre-Rigid	10R-30	MFWD 190	39,600	150	8	0.084	1.72	1.97	1.25	0.33	5.29	2.49	2.19	9.98
NT Plant&Pre-Rigid	11R-15	MFWD 170	45,100	150	8	0.143	2.93	3.00	2.43	0.57	8.95	4.82	3.75	17.53
NT Plant&Pre-Rigid	11R-20	MFWD 170	42,500	150	8	0.115	2.35	2.41	1.84	0.46	7.08	3.65	3.01	13.75
NT Plant&Pre-Rigid	12R-20	MFWD 190	49,200	150	8	0.105	2.15	2.47	1.95	0.42	7.00	3.87	2.73	13.61
NT Plant&Pre-Rigid	12R-30	MFWD 190	55,300	150	8	0.070	1.43	1.64	1.46	0.28	4.83	2.90	1.82	9.55
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	47,400	150	8	0.097	1.98	2.69	1.73	0.49	6.91	3.43	3.19	13.54
NT Plant&Pre-Rigid	15R-15	MFWD 190	57,700	150	8	0.113	2.30	2.64	2.44	0.45	7.85	4.85	2.92	15.63
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	108,000	150	8	0.055	1.13	1.54	2.25	0.28	5.21	4.47	1.82	11.50
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	86,600	150	8	0.083	1.70	2.31	2.71	0.42	7.15	5.38	2.74	15.28
NT Plant-Folding	8R-38	MFWD 170	39,300	150	8	0.077	1.58	1.62	1.14	0.31	4.66	2.26	2.02	8.95
NT Plant-Folding	8R-38 2x1	MFWD 170	65,700	150	8	0.051	1.05	1.08	1.27	0.20	3.61	2.52	1.34	7.49
NT Plant-Folding	12R-20	MFWD 190	61,800	150	8	0.098	2.00	2.29	2.27	0.39	6.96	4.51	2.54	14.02
NT Plant-Folding	12R-30	MFWD 190	64,100	150	8	0.065	1.33	1.53	1.57	0.26	4.70	3.12	1.69	9.51
NT Plant-Folding	12R-38	MFWD 190	65,900	150	8	0.051	1.05	1.20	1.27	0.20	3.74	2.53	1.33	7.61
NT Plant-Folding	16R-30	MFWD 190	89,800	150	8	0.049	1.00	1.14	1.65	0.19	3.99	3.28	1.27	8.55
NT Plant-Folding	23R-15	MFWD 190	106,000	150	8	0.068	1.39	1.59	2.71	0.27	5.96	5.37	1.76	13.11
NT Plant-Folding	24R-15	MFWD 225	112,000	150	8	0.065	1.33	1.81	2.75	0.33	6.22	5.45	2.14	13.83
NT Plant-Folding	24R-20	MFWD 190	120,000	150	8	0.049	1.00	1.14	2.20	0.19	4.55	4.38	1.27	10.21
NT Plant-Folding	24R-30	MFWD 190	141,000	150	8	0.032	0.66	0.76	1.73	0.13	3.29	3.43	0.84	7.57
NT Plant-Folding	31R-15	MFWD 225	128,000	150	8	0.050	1.03	1.40	2.43	0.25	5.13	4.83	1.66	11.63
NT Plant-Folding	32R-15	MFWD 225	139,000	150	8	0.049	1.00	1.35	2.55	0.24	5.16	5.07	1.60	11.85
NT Plant-Folding	36R-20	MFWD 225	157,000	150	8	0.032	0.66	0.90	1.92	0.16	3.66	3.82	1.07	8.56
NT Plant-Rigid	4R-30	2WD 130	20,100	150	8	0.196	4.00	3.14	1.48	0.52	9.15	2.93	3.26	15.35
NT Plant-Rigid	4R-38	2WD 130	21,600	150	8	0.154	3.15	2.47	1.25	0.41	7.29	2.48	2.56	12.35
NT Plant-Rigid	6R-30	MFWD 150	28,700	150	8	0.130	2.67	2.41	1.40	0.44	6.94	2.79	2.79	12.54
NT Plant-Rigid	6R-38	MFWD 150	26,700	150	8	0.103	2.10	1.90	1.03	0.35	5.40	2.05	2.21	9.67
NT Plant-Rigid	8R-30	MFWD 170	35,200	150	8	0.098	2.00	2.05	1.29	0.39	5.74	2.57	2.56	10.88
NT Plant-Rigid	8R-38	MFWD 170	32,100	150	8	0.077	1.58	1.62	0.93	0.31	4.45	1.85	2.02	8.33
NT Plant-Rigid	10R-30	MFWD 190	34,700	150	8	0.078	1.60	1.83	1.02	0.31	4.77	2.02	2.03	8.83
NT Plant-Rigid	11R-15	MFWD 170	40,100	150	8	0.133	2.72	2.79	2.00	0.53	8.06	3.98	3.48	15.53
NT Plant-Rigid	11R-20	MFWD 170	37,600	150	8	0.107	2.19	2.24	1.51	0.43	6.37	3.00	2.79	12.18
NT Plant-Rigid	12R-20	MFWD 190	44,200	150	8	0.098	2.00	2.29	1.62	0.39	6.31	3.22	2.54	12.09
NT Plant-Rigid	12R-30	MFWD 190	50,300	150	8	0.065	1.33	1.53	1.23	0.26	4.36	2.44	1.69	8.50
NT Plant-Rigid	13R-18/20	MFWD 225	41,380	150	8	0.090	1.85	2.51	1.41	0.45	6.24	2.79	2.98	12.02
NT Plant-Rigid	15R-15	MFWD 190	51,100	150	8	0.105	2.14	2.45	2.01	0.41	7.03	3.99	2.72	13.74
NT Plant-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.051	1.05	1.43	1.95	0.26	4.70	3.88	1.69	10.28
NT Plant-TwinRow	8R-30/40	MFWD 225	81,600	150	8	0.077	1.58	2.14	2.37	0.39	6.50	4.71	2.54	13.75
One Trip Plow	4R-38	MFWD 170	20,000	150	10	0.146	1.66	3.06	1.36	0.58	6.69	2.13	3.82	12.65
One Trip Plow	6R-38	MFWD 190	24,000	150	10	0.097	1.10	2.27	1.08	0.38	4.85	1.70	2.51	9.07
One Trip Plow	8R-38	MFWD 225	35,700	150	10	0.073	0.83	2.04	1.23	0.37	4.49	1.92	2.42	8.84
Paratill & Bed Fold.	8R-38	MFWD 225	50,300	150	12	0.080	0.91	2.23	1.46	0.40	5.02	2.64	2.64	10.32
Paratill & Bed Fold.	8R-38 2x1	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Fold.	10R-30	MFWD 225	32,100	150	12	0.081	0.92	2.26	0.94	0.41	4.54	1.70	2.67	8.93

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------$/acre----------							
Paratill & Bed Fold.	12R-38	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Rigid	4R-30	MFWD 225	12,200	150	12	0.204	2.31	5.65	0.90	1.03	9.90	1.62	6.69	18.22
Paratill & Bed Rigid	4R-38	MFWD 225	12,200	150	12	0.160	1.82	4.45	0.70	0.81	7.79	1.27	5.27	14.35
Paratill & Bed Rigid	6R-30	MFWD 225	16,000	150	12	0.136	1.54	3.77	0.78	0.68	6.79	1.41	4.46	12.67
Paratill & Bed Rigid	6R-38	MFWD 225	17,000	150	12	0.107	1.22	2.97	0.66	0.54	5.39	1.19	3.52	10.11
Paratill & Bed Rigid	8R-30	MFWD 225	21,100	150	12	0.102	1.15	2.82	0.77	0.51	5.28	1.40	3.34	10.03
Paratill & Bed Rigid	8R-38	MFWD 225	22,200	150	12	0.080	0.91	2.23	0.64	0.40	4.20	1.16	2.64	8.02
Paratill & Bed Rigid	10R-30	MFWD 225	24,400	150	12	0.081	0.92	2.26	0.72	0.41	4.32	1.29	2.67	8.30
Peanut Cond.& Lifter	6-Row	MFWD 190	11,000	300	20	0.100	1.13	2.33	0.18	0.39	4.05	0.28	2.58	6.92
Peanut Conditioner	6-Row	MFWD 190	11,500	300	20	0.100	1.13	2.33	0.23	0.39	4.10	0.26	2.58	6.95
Peanut Dig/Invertor	4R-30	MFWD 190	20,900	300	15	0.235	2.67	5.51	1.22	0.93	10.35	1.52	6.10	17.99
Peanut Dig/Invertor	4R-38	MFWD 190	20,900	300	15	0.186	2.11	4.35	0.96	0.74	8.17	1.20	4.82	14.20
Peanut Dig/Invertor	6R-38	MFWD 190	30,300	300	15	0.124	1.40	2.89	0.65	0.49	5.46	1.16	3.21	9.83
Peanut Dump Cart	6-Row	MFWD 190	34,900	300	20	0.310	3.51	7.24	0.63	1.23	12.63	2.70	8.02	23.36
Peanut Harvester	4R-30	MFWD 225	95,400	300	20	0.849	9.64	23.52	4.59	4.28	42.05	18.74	27.86	88.66
Peanut Harvester	4R-38	MFWD 225	95,400	300	20	0.934	10.60	25.86	5.05	4.71	46.24	21.45	30.63	98.33
Peanut Harvester	6R-38	MFWD 225	118,000	300	20	0.625	7.09	17.29	3.56	3.15	31.11	17.75	20.48	69.34
Peanut Lifter	6-Row	MFWD 225	4,000	300	20	0.100	1.13	2.76	0.08	0.50	4.48	0.09	3.27	7.86
Peanut Plt&Pre Fold.	12R-38	MFWD 190	66,100	150	8	0.080	1.64	1.87	1.99	0.32	5.83	3.95	2.08	11.87
Peanut Plt&Pre Rigid	8R-30	MFWD 190	36,000	150	8	0.152	3.11	3.57	2.06	0.60	9.36	4.09	3.95	17.40
Peanut Plt&Pre Rigid	8R-38	MFWD 190	32,900	150	8	0.120	2.46	2.82	1.49	0.48	7.25	2.95	3.12	13.34
Pipe Spool 160ac	1/4m roll	2WD 130	3,470	15	12	0.003	0.09	0.04	0.00	0.00	0.15	0.07	0.05	0.27
Pipe Trailer 1m/160a	30'	2WD 130	1,100	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.06	0.31
Plant & Pre-Folding	8R-38	MFWD 170	40,000	150	8	0.080	1.63	1.67	1.20	0.32	4.84	2.38	2.09	9.32
Plant & Pre-Folding	8R-38 2x1	MFWD 170	66,100	150	8	0.053	1.09	1.11	1.32	0.21	3.74	2.62	1.39	7.76
Plant & Pre-Folding	12R-20	MFWD 190	60,400	150	8	0.101	2.07	2.37	2.29	0.40	7.15	4.56	2.62	14.34
Plant & Pre-Folding	12R-30	MFWD 190	62,800	150	8	0.067	1.38	1.58	1.59	0.26	4.82	3.16	1.75	9.74
Plant & Pre-Folding	12R-38	MFWD 190	66,100	150	8	0.053	1.09	1.24	1.32	0.21	3.87	2.62	1.38	7.88
Plant & Pre-Folding	16R-30	MFWD 190	88,000	150	8	0.050	1.03	1.18	1.67	0.20	4.10	3.32	1.31	8.73
Plant & Pre-Folding	23R-15	MFWD 190	98,500	150	8	0.070	1.43	1.64	2.60	0.28	5.97	5.16	1.82	12.96
Plant & Pre-Folding	24R-15	MFWD 225	104,000	150	8	0.067	1.38	1.87	2.63	0.34	6.23	5.23	2.21	13.69
Plant & Pre-Folding	24R-20	MFWD 190	114,000	150	8	0.050	1.03	1.18	2.17	0.20	4.59	4.30	1.31	10.21
Plant & Pre-Folding	24R-30	MFWD 190	138,000	150	8	0.033	0.69	0.79	1.75	0.13	3.36	3.47	0.87	7.71
Plant & Pre-Folding	31R-15	MFWD 225	121,000	150	8	0.052	1.07	1.45	2.38	0.26	5.16	4.72	1.72	11.61
Plant & Pre-Folding	32R-15	MFWD 225	132,000	150	8	0.050	1.03	1.40	2.51	0.25	5.21	4.98	1.66	11.85
Plant & Pre-Folding	36R-20	MFWD 225	148,000	150	8	0.033	0.69	0.93	1.87	0.17	3.67	3.72	1.10	8.51
Plant & Pre-Rigid	4R-30	2WD 130	23,000	150	8	0.203	4.14	3.24	1.75	0.54	9.68	3.47	3.37	16.53
Plant & Pre-Rigid	4R-38	2WD 130	24,500	150	8	0.159	3.26	2.55	1.46	0.42	7.71	2.91	2.65	13.28
Plant & Pre-Rigid	6R-30	MFWD 150	31,500	150	8	0.135	2.76	2.49	1.59	0.46	7.32	3.17	2.89	13.39
Plant & Pre-Rigid	6R-38	MFWD 150	28,500	150	8	0.106	2.18	1.97	1.14	0.36	5.66	2.26	2.28	10.21
Plant & Pre-Rigid	8R-30	MFWD 170	36,000	150	8	0.101	2.07	2.12	1.37	0.40	5.97	2.71	2.64	11.34
Plant & Pre-Rigid	8R-38	MFWD 170	32,900	150	8	0.080	1.63	1.67	0.99	0.32	4.62	1.96	2.09	8.68
Plant & Pre-Rigid	10R-30	MFWD 190	34,400	150	8	0.081	1.65	1.89	1.04	0.32	4.92	2.07	2.10	9.11
Plant & Pre-Rigid	11R-15	MFWD 170	39,300	150	8	0.148	3.02	3.09	2.18	0.59	8.90	4.33	3.86	17.10
Plant & Pre-Rigid	11R-20	MFWD 170	36,800	150	8	0.110	2.26	2.32	1.53	0.44	6.56	3.03	2.89	12.49
Plant & Pre-Rigid	12R-20	MFWD 190	42,900	150	8	0.101	2.07	2.37	1.63	0.40	6.48	3.24	2.62	12.35
Plant & Pre-Rigid	12R-30	MFWD 190	49,000	150	8	0.067	1.38	1.58	1.24	0.26	4.47	2.46	1.75	8.69
Plant & Pre-Rigid	13R-18/20	MFWD 225	41,375	150	8	0.093	1.90	2.59	1.45	0.47	6.42	2.88	3.06	12.37
Plant & Pre-Rigid	15R-15	MFWD 190	49,800	150	8	0.108	2.21	2.53	2.02	0.43	7.21	4.02	2.81	14.05
Plant & Pre-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.053	1.09	1.47	2.02	0.26	4.86	4.01	1.75	10.63
Plant & Pre-TwinRow	8R-30/40	MFWD 225	82,400	150	8	0.080	1.63	2.22	2.48	0.40	6.74	4.91	2.63	14.29
Plant - Folding	8R-38	MFWD 170	35,100	150	8	0.074	1.52	1.55	0.98	0.29	4.35	1.94	1.94	8.24
Plant - Folding	8R-38 2x1	MFWD 170	59,600	150	8	0.049	1.01	1.03	1.10	0.19	3.35	2.19	1.29	6.85
Plant - Folding	12R-20	MFWD 190	55,400	150	8	0.094	1.92	2.20	1.95	0.37	6.46	3.88	2.44	12.79
Plant - Folding	12R-30	MFWD 190	57,800	150	8	0.062	1.28	1.46	1.36	0.25	4.36	2.70	1.62	8.69
Plant - Folding	12R-38	MFWD 190	59,600	150	8	0.049	1.01	1.15	1.10	0.19	3.47	2.19	1.28	6.96
Plant - Folding	16R-30	MFWD 190	81,400	150	8	0.047	0.96	1.10	1.43	0.18	3.69	2.85	1.22	7.76
Plant - Folding	23R-15	MFWD 190	93,500	150	8	0.065	1.33	1.53	2.29	0.26	5.42	4.55	1.69	11.67
Plant - Folding	24R-15	MFWD 225	99,000	150	8	0.062	1.28	1.73	2.33	0.31	5.67	4.62	2.06	12.36
Plant - Folding	24R-20	MFWD 190	108,000	150	8	0.047	0.96	1.10	1.90	0.18	4.16	3.78	1.22	9.16
Plant - Folding	24R-30	MFWD 190	128,100	150	8	0.031	0.64	0.73	1.50	0.12	3.01	2.99	0.81	6.81
Plant - Folding	31R-15	MFWD 225	111,000	150	8	0.048	0.99	1.34	2.02	0.24	4.61	4.02	1.59	10.23
Plant - Folding	32R-15	MFWD 225	123,000	150	8	0.047	0.96	1.30	2.17	0.23	4.67	4.31	1.54	10.53
Plant - Folding	36R-20	MFWD 225	138,000	150	8	0.031	0.64	0.86	1.62	0.15	3.29	3.22	1.03	7.55
Plant - Rigid	4R-30	2WD 130	18,000	150	8	0.188	3.84	3.01	1.27	0.50	8.64	2.52	3.13	14.29
Plant - Rigid	4R-38	2WD 130	19,500	150	8	0.148	3.03	2.37	1.08	0.39	6.88	2.15	2.46	11.50
Plant - Rigid	6R-30	MFWD 150	26,600	150	8	0.125	2.56	2.31	1.25	0.43	6.57	2.48	2.68	11.74
Plant - Rigid	6R-38	MFWD 150	23,500	150	8	0.099	2.02	1.83	0.87	0.34	5.07	1.73	2.12	8.92
Plant - Rigid	8R-30	MFWD 170	31,000	150	8	0.094	1.92	1.97	1.09	0.37	5.37	2.17	2.45	10.00
Plant - Rigid	8R-38	MFWD 170	27,900	150	8	0.074	1.52	1.55	0.77	0.29	4.15	1.54	1.94	7.64
Plant - Rigid	10R-30	MFWD 190	29,400	150	8	0.075	1.53	1.76	0.83	0.30	4.43	1.64	1.95	8.03
Plant - Rigid	11R-15	MFWD 170	34,300	150	8	0.137	2.80	2.87	1.77	0.55	8.01	3.51	3.58	15.11
Plant - Rigid	11R-20	MFWD 170	31,800	150	8	0.103	2.10	2.15	1.22	0.41	5.90	2.43	2.68	11.02
Plant - Rigid	12R-20	MFWD 190	37,900	150	8	0.094	1.92	2.20	1.34	0.37	5.84	2.65	2.44	10.94
Plant - Rigid	12R-30	MFWD 190	44,000	150	8	0.062	1.28	1.46	1.03	0.25	4.03	2.05	1.62	7.72
Plant - Rigid	13R-18/20	MFWD 225	41,100	150	8	0.086	1.77	2.40	1.33	0.43	5.95	2.65	2.84	11.46
Plant - Rigid	15R-15	2WD 150	43,200	150	8	0.094	1.92	1.73	1.52	0.30	5.49	3.02	1.89	10.42
Plant - TwinRow	12R-30/40	MFWD 225	94,700	150	8	0.049	1.01	1.37	1.76	0.25	4.39	3.49	1.62	9.52
Plant - TwinRow	8R-30/40	MFWD 225	77,400	150	8	0.074	1.52	2.06	2.16	0.37	6.12	4.29	2.44	12.85

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Ridge Till Cult + PD	8R-30	2WD 150	27,000	200	12	0.110	1.74	2.02	1.42	0.35	5.55	1.49	2.21	9.26
Ridge Till Cult + PD	12R-30	2WD 190	37,600	200	12	0.073	1.16	1.71	1.32	0.25	4.45	1.38	1.63	7.47
Ridge Till Cultivate	8R-30	2WD 170	22,000	200	12	0.103	1.17	2.15	1.08	0.35	4.76	1.14	2.29	8.20
Ridge Till Cultivate	12R-30	2WD 190	32,600	200	12	0.068	0.78	1.60	1.07	0.23	3.69	1.12	1.53	6.36
Rip/Bed/Till-Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.82	1.70	0.11	0.29	2.93	0.55	1.89	5.38
Rip/Bed/Till-Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.69	1.70	0.14	0.31	2.85	0.70	2.01	5.58
Rip/Bed/Till-Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.52	1.27	0.10	0.23	2.14	0.52	1.51	4.18
Rip/Bed/Till-Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.09	4.32	0.11	0.73	7.27	0.59	4.78	12.65
Rip/Bed/Till-Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.66	3.42	0.09	0.58	5.77	0.47	3.79	10.04
Rip/Bed/Till-Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.10	2.27	0.09	0.38	3.86	0.48	2.51	6.86
Rip/Bed/Till-Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.57	3.24	0.17	0.55	5.55	0.88	3.59	10.03
Rip/Bed/Till-Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.82	1.70	0.09	0.29	2.92	0.46	1.89	5.27
Rip/Bed/Till-Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.39	2.88	0.12	0.49	4.89	0.61	3.19	8.69
Ripper Conditioner	6-Row	MFWD 225	18,200	150	12	0.107	1.22	2.97	0.70	0.54	5.44	1.27	3.52	10.24
Ripper Conditioner	8-Row	MFWD 225	19,000	150	12	0.080	0.91	2.23	0.55	0.40	4.11	0.99	2.64	7.76
Roller/Cultipacker	12'	2WD 130	5,020	300	12	0.124	1.41	1.98	0.14	0.33	3.88	0.20	2.06	6.15
Roller/Cultipacker	20'	MFWD 150	14,700	300	12	0.074	0.84	1.37	0.25	0.25	2.74	0.36	1.59	4.70
Roller/Cultipacker	30'	MFWD 170	14,900	300	12	0.049	0.56	1.04	0.17	0.19	1.98	0.24	1.29	3.52
Roller/Cultipacker	38'	MFWD 225	16,100	300	12	0.039	0.44	1.08	0.14	0.19	1.88	0.21	1.28	3.38
Roller/Stubble	20'	2WD 50	10,900	300	12	0.074	0.84	0.45	0.19	0.05	1.55	0.27	0.32	2.15
Roller/Stubble	32'	MFWD 225	18,500	300	12	0.046	0.52	1.29	0.20	0.23	2.26	0.28	1.52	4.07
Rotary Cutter	7'	MFWD 130	3,920	185	10	0.168	1.91	2.69	0.53	0.48	5.62	0.39	3.01	9.03
Rotary Cutter	12'	2WD 150	10,100	185	10	0.098	1.11	1.81	0.80	0.31	4.04	0.58	1.97	6.60
Rotary Cutter-Flex	15'	MFWD 150	17,500	185	10	0.078	0.89	1.44	1.11	0.26	3.72	0.81	1.67	6.21
Rotary Cutter-Flex	20'	MFWD 150	25,000	185	10	0.058	0.66	1.08	1.19	0.20	3.15	0.87	1.25	5.28
Row Cond & Inc-Fold.	26'	MFWD 190	22,300	100	10	0.063	1.00	1.48	0.35	0.25	3.09	1.54	1.64	6.28
Row Cond & Inc-Fold.	38'	MFWD 225	27,900	100	10	0.043	0.68	1.20	0.30	0.21	2.41	1.32	1.42	5.16
Row Cond & Inc-Rigid	13'	2WD 130	11,100	100	10	0.126	2.01	2.02	0.35	0.33	4.73	1.54	2.10	8.38
Row Cond & Inc-Rigid	21'	2WD 170	14,600	100	10	0.078	1.24	1.64	0.28	0.26	3.44	1.25	1.74	6.44
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.62	0.11	0.10	1.26	0.48	0.68	2.43
Row Cond Folding	26'	MFWD 225	17,300	100	10	0.059	0.67	1.65	0.25	0.30	2.89	1.13	1.95	5.97
Row Cond Folding	38'	MFWD 225	21,100	100	10	0.040	0.46	1.13	0.21	0.20	2.01	0.94	1.33	4.29
Row Cond Rigid	13'	2WD 130	6,100	100	10	0.119	1.35	1.91	0.18	0.31	3.76	0.79	1.98	6.54
Row Cond Rigid	21'	2WD 170	9,600	100	10	0.073	0.83	1.54	0.17	0.25	2.81	0.77	1.64	5.23
Row Cond Rigid	26'	MFWD 190	11,600	100	10	0.059	0.67	1.39	0.17	0.23	2.48	0.75	1.54	4.78
Spin Spreader	5 ton	MFWD 190	10,600	100	8	0.042	0.85	0.98	0.25	0.16	2.26	0.52	1.08	3.87
Spray (ATV Ropewick)	75"	800 CC	540	200	8	0.260	4.13	0.47	0.06	0.43	5.11	0.08	1.78	6.98
Spray (ATV)	12'/17'	800 CC	550	200	8	0.112	1.79	0.20	0.02	0.19	2.21	0.03	0.77	3.02
Spray (ATV)	20'	800 CC	1,250	200	8	0.084	1.34	0.15	0.04	0.14	1.69	0.06	0.58	2.33
Spray (Band)	27' Fold	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Band)	40' Fold	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Band)	50' Fold	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Band)	53' Fold	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Band)	60' Fold	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,070	200	8	0.130	2.06	2.40	0.30	0.44	5.22	0.38	2.78	8.39
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,960	200	8	0.084	1.34	1.56	0.23	0.29	3.43	0.29	1.80	5.53
Spray (Bcast/HB)	27' Fold	MFWD 170	9,910	200	8	0.062	0.99	1.31	0.29	0.25	2.84	0.36	1.63	4.84
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,850	200	8	0.062	0.99	1.31	0.20	0.25	2.75	0.25	1.63	4.64
Spray (Bcast/HB)	30' Fold	MFWD 170	13,000	200	8	0.056	0.89	1.17	0.34	0.22	2.64	0.42	1.47	4.54
Spray (Bcast/HB)	40' Fold	MFWD 170	13,800	200	8	0.042	0.67	0.88	0.27	0.16	2.00	0.34	1.10	3.44
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	0.99	1.31	0.60	0.25	3.16	0.74	1.63	5.54
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.67	0.88	0.48	0.16	2.21	0.60	1.10	3.91
Spray (Broadcast)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Broadcast)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Broadcast)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Broadcast)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Broadcast)	60'	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Direct/Hood)	8R-30	MFWD 170	14,500	200	8	0.084	1.34	1.76	0.57	0.33	4.02	0.71	2.20	6.95
Spray (Direct/Hood)	8R-38	MFWD 170	15,700	200	8	0.066	1.06	1.39	0.49	0.26	3.22	0.61	1.74	5.57
Spray (Direct/Hood)	12R-30	MFWD 170	18,400	200	8	0.056	0.89	1.17	0.48	0.22	2.78	0.60	1.47	4.86
Spray (Direct/Hood)	12R-38	MFWD 170	18,800	200	8	0.044	0.70	0.93	0.39	0.17	2.20	0.48	1.16	3.85
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.34	1.76	0.41	0.33	3.86	0.51	2.20	6.59
Spray (Direct/Layby)	8R-38	MFWD 170	11,000	200	8	0.066	1.06	1.39	0.34	0.26	3.07	0.42	1.74	5.24
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.07	1.41	0.38	0.27	3.14	0.48	1.76	5.39
Spray (Direct/Layby)	12R-30	MFWD 170	15,400	200	8	0.056	0.89	1.17	0.40	0.22	2.70	0.50	1.47	4.68
Spray (Direct/Layby)	12R-38	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.00	1.32	0.29	0.25	2.87	0.36	1.65	4.89
Spray (Levee Leaper)	50'	MFWD 225	11,500	200	8	0.033	0.53	0.93	0.18	0.17	1.82	0.22	1.10	3.16
Spray (Pull Type)	60'	MFWD 225	26,500	200	8	0.028	0.44	0.78	0.35	0.14	1.72	0.43	0.92	3.08
Spray (Pull Type)	80'	MFWD 225	36,400	200	8	0.021	0.33	0.58	0.36	0.10	1.38	0.44	0.69	2.53
Spray (Pull Type)	90'	2WD 50	36,800	200	8	0.018	0.29	0.11	0.32	0.01	0.75	0.40	0.08	1.23
Spray (Pull Type)	100'	MFWD 225	39,000	200	8	0.016	0.26	0.46	0.30	0.08	1.13	0.38	0.55	2.07
Spray (Pull Type)	120'	MFWD 225	48,800	200	8	0.014	0.22	0.39	0.32	0.07	1.00	0.40	0.46	1.87
Spray (Ropewick)	20'	MFWD 190	2,390	200	8	0.084	1.34	1.97	0.09	0.33	3.75	0.11	2.19	6.06
Spray (Spot)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Spot)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Spray (Spot)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Spot)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Spot)	60'	MFWD 225	9,580	200	8	0.028	0.44	0.78	0.12	0.14	1.49	0.15	0.92	2.58
Stalk Shredder	14'	MFWD 150	12,000	200	10	0.117	1.33	2.17	1.23	0.40	5.15	0.77	2.51	8.44
Stalk Shredder	20'	MFWD 150	30,200	200	10	0.082	0.93	1.52	2.18	0.28	4.92	1.36	1.76	8.04
Stalk Shredder-Flail	12'	MFWD 150	14,400	200	10	0.137	1.56	2.53	1.73	0.47	6.30	1.08	2.93	10.32
Stalk Shredder-Flail	15'	MFWD 150	18,100	200	10	0.110	1.24	2.02	1.74	0.37	5.39	1.08	2.35	8.83
Stalk Shredder-Flail	18'	MFWD 150	22,700	200	10	0.091	1.04	1.69	1.82	0.31	4.86	1.13	1.95	7.96
Stalk Shredder-Flail	20'	MFWD 150	23,100	200	10	0.082	0.93	1.52	1.66	0.28	4.40	1.04	1.76	7.21
Stalk Shredder-Flail	25'	MFWD 150	30,800	200	10	0.066	0.74	1.21	1.77	0.22	3.97	1.11	1.41	6.49
Strip Till	12R-30	MFWD 225	28,600	150	10	0.061	0.69	1.70	0.76	0.31	3.47	1.28	2.01	6.78
Subsoiler	3 shank	MFWD 190	3,360	100	15	0.204	2.31	4.77	0.22	0.81	8.13	0.59	5.29	14.02
Subsoiler	4 shank	MFWD 225	6,390	100	15	0.153	1.74	4.25	0.32	0.77	7.09	0.84	5.03	12.98
Subsoiler	5 shank	MFWD 225	6,610	100	15	0.122	1.38	3.38	0.26	0.61	5.66	0.69	4.01	10.37
Subsoiler low-till	4 shank	MFWD 225	1,060	100	15	0.153	1.74	4.25	0.05	0.77	6.82	0.14	5.03	12.00
Subsoiler low-till	6 shank	MFWD 225	15,100	100	15	0.102	1.15	2.82	0.51	0.51	5.01	1.33	3.34	9.69
Subsoiler low-till	8 shank	MFWD 225	18,000	100	15	0.076	0.86	2.11	0.45	0.38	3.83	1.18	2.50	7.52
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.31	5.65	1.05	1.03	10.06	1.90	6.69	18.66
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.82	4.45	0.83	0.81	7.92	1.49	5.27	14.69
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.22	2.97	0.75	0.54	5.49	1.35	3.52	10.37

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, 2011

ITEM NAME	UNIT	PRICE
		dollars
ADJUVANTS		
Crop Oil Conc.(Pet.)	pt	1.41
Crop Oil Conc.(Veg.)	pt	3.33
Drift/Defoamer	pt	5.75
Spreader Sticker	pt	3.77
Surfactant	pt	2.44
CLEANING		
Cleaning Peanuts	ton	18.00
CROP CONSULTANT		
Rice Consultant	acre	7.50
CUSTOM FERTILIZE		
App Fert by Air	cwt	6.25
App Fert by Air(Min)	appl	6.25
Custom Apply Fert	acre	6.25
CUSTOM LIME		
Lime (Spread)	ton	46.00
CUSTOM PLANT		
Custom Plant	acre	7.00
Custom Plant Air	cwt	6.25
CUSTOM SPRAY		
App by Air (2 gal)	appl	3.50
App by Air (3 gal)	appl	4.00
App by Air (5 gal)	appl	5.50
App by Air (10 gal)	appl	7.25
Custom Spray	acre	6.00
DRYING		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Peanuts	ton	24.00
Dry Rice	bu	0.40
ERADICATION FEE		
Eradication	acre	2.00
FERTILIZERS		
Amm Nitrate (34% N)	cwt	18.00
Amm Sulfate (21% N)	cwt	14.00
Anhy Ammonia (82%	cwt	28.00
Boron 15G	lb	0.42
Boron Plus	pt	3.99
DAP	cwt	25.00
Fert 10-34-0	cwt	22.00
Fert 11-37-0	cwt	23.50
Fert 33-0-0-12s	cwt	19.00
Fert 41-0-0-4	cwt	18.50
MAP	cwt	27.00
Phosphorus(46% P2O5)	cwt	22.00
Potash (60% K2O)	cwt	23.00
Sulfur 90%	lb	0.20
Sulfur Plus	pt	2.37
UAN (32% N)	cwt	12.50
UAN + Sulfur (28%)	cwt	12.00
Urea, Solid (46% N)	cwt	19.00
Zinc Sulfate 31%	lb	0.55
FUNGICIDES		
Abound	pt	29.97
Absolute 500SC	pt	53.42
Allegiance Flowable	pt	49.74
Apron Maxx RTA	oz	0.74
Apron Maxx RTA+Moly	pt	15.01
Apron XL LS	oz	8.51
Artisan	oz	.85
Bravo Ultrex	lb	6.83
Bravo Weather Stick	pt	5.69
Captan 50 WP	lb	5.62
Cotton Seed Trt.	acre	20.00
Dithane F-45	qt	7.11
Dithane Rainshield	lb	2.54
Folicur 3.6	oz	1.08
Fungicide	lb	2.82
Gem 25 WG	oz	3.70
Headline	oz	2.60
Manzate 75 DF	lb	3.48
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	24.85
Prevail	lb	27.24
Provost	oz	2.16
Quadris	oz	2.52
Quadris Ridomil Gold	oz	3.26
Quilt	pt	20.25
Ridomil Gold PC GR	lb	2.24
Rovral 4F	pt	17.83
Stiletto	oz	0.56
Stratego	pt	17.77
Terrachlor 2EC	pt	1.87
Terraclor Super X G	lb	2.82
Tilt 3.6 EC	oz	2.15
Tilt/ Bravo SE	oz	0.45
Uniform	oz	2.96
Vitavax 200	oz	0.47
Vitavax RTU-Thiram	oz	0.35
GINNING		
Gin & Haul	lb	0.09
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
Mepex	oz	0.10
Mepex Gin Out	oz	0.23
Mepichlor 4.2% Liq	oz	0.25
Mepiquat	oz	0.08
Mepiquat Extra	oz	0.10
Pentia	pt	4.36
PGR IV	oz	1.55
Stance	oz	1.10
SuperBoll	pt	3.07
HARVEST AIDS		
Aim 2EC	oz	6.56
Ammonium Sulfate	lb	0.14
Boll Buster	pt	3.27
CottonQuik	pt	4.25
Def 6	pt	6.50
Def/Folex	pt	6.53
Defol 3	gal	3.35
Defol 5	gal	5.82
Defol 6	gal	4.69
Defol 750	pt	1.22
Dropp 50 WP	lb	45.45
Dropp SC	oz	1.74
ET	pt	43.31
Ethephon 6E	pt	2.85
Finish 6	pt	7.29
First Pick	pt	3.21
Folex 6EC	pt	6.56
Freefall SC	oz	1.52
Ginstar EC	pt	27.36
Gramoxone Inteon	oz	0.25
Gramoxone Max	pt	5.46
Harvade 5F	oz	0.67
Prep	pt	3.19
Shed-a-leaf	gal	3.60
Sodium Chlorate 3L	gal	3.35
Sodium Chlorate 5L	gal	5.82
Solium Chlorate 6L	gal	4.69
TDZ SC	oz	1.37
Thidiazuron 4lb	oz	1.74
Tribufos 6lb	pt	6.53
HAULING		
Haul Corn/Bin	bu	0.18
Haul Corn/Field	bu	0.26
Haul Cotton	lb	0.02
Haul Peanuts	ton	14.50
Haul Rice/Bin	bu	0.18

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.27	Expert	pt	3.68
Haul Sorghum/Bin	bu	0.18	Facet 75DF	lb	49.92
Haul Sorghum/Field	bu	0.26	Finesse	oz	16.36
Haul Soybeans/Bin	bu	0.18	First Rate	oz	37.48
Haul Soybeans/Field	bu	0.26	Flexstar HL	pt	15.24
Haul Wheat/Bin	bu	0.18	FloMet 4L	pt	4.74
Haul Wheat/Field	bu	0.26	Flomet DF	lb	6.61
HERBICIDES			Fluometuron 4lb	pt	4.81
2,4-D Amine 4	pt	1.74	Frontier 6.0	oz	0.63
2,4-D LV 4Ester	pt	2.10	Fultime	pt	4.27
2,4-D Weedar 64	pt	1.72	Fusilade DX	oz	1.46
2,4-DB 200	pt	4.34	Fusion	pt	23.84
AAtrex 4L	pt	2.58	Glyfos	pt	1.66
AAtrex NINE-O	lb	4.57	Glyfos Xtra	pt	1.69
Accent Gold	oz	6.12	Glyphosate 3lbs a.e.	pt	1.75
Accent Q	oz	28.05	Glyphosate 3lbs a.e.	oz	0.11
Accent SP	oz	29.01	Glystar	pt	1.66
Aim 2EC	oz	6.56	Glystar Plus	pt	1.69
Assure II	oz	1.08	Goal 2XL	pt	9.58
Atrazine 4L	pt	2.10	Gramoxone Inteon	oz	0.25
Atrazine 90DF	lb	4.14	Gramoxone Max	pt	5.46
Axial	pt	14.08	Grandstand R	qt	25.10
Axiom 68DF	lb	25.74	Guardsman Max	pt	6.29
Banvel	pt	6.31	Halex GT	pt	5.29
Basagran	pt	12.16	Harmony Extra SG	oz	12.76
Basis Gold	lb	9.00	Harmony Extra XP	oz	11.75
Beacon 75% WSP	oz	31.45	Harmony GT	oz	19.35
Beyond	oz	4.47	Harness	pt	11.88
Bicep II	pt	4.00	Harness XTRA	pt	7.31
Bicep II Magnum	qt	10.57	Hoelon 3EC	pt	11.03
Bicep Lite Magnum	pt	7.07	Honcho Plus	pt	3.98
Blazer Ultra	pt	8.56	Hornet WDG	lb	65.62
Bolero 8EC	pt	5.73	Ignite 280	pt	6.57
Boundary 6.5 EC	pt	10.09	Impact	oz	21.39
Buccaneer Plus	pt	1.81	Karmex XP	lb	6.41
Buctril 2EC	pt	15.80	Lariat	qt	5.71
Buctril 4EC	pt	16.40	Layby Pro	qt	11.68
Bullet	pt	2.97	Lexar	pt	5.56
Butoxone 200(2,4-DB)	pt	4.04	Liberty	pt	8.31
Butyrac 200 (2,4-DB)	pt	4.09	Lightning	oz	13.28
Cadre	oz	4.20	Linex 4L	pt	8.65
Callisto 4SC	oz	4.63	Londax 60DF	oz	14.29
Canopy 75%	oz	3.15	Lorox 50DF	lb	18.83
Canopy EX	oz	6.31	Me-Too-Lachlor	pt	6.43
Caparol 4L	pt	3.36	MSMA 6.6	pt	2.69
Celebrity Plus	lb	84.50	MSMA6 Plus	pt	2.63
Clarity	pt	11.86	Newpath 2SL	oz	3.84
Classic	oz	14.55	Option	oz	9.92
Clearpath	lb	59.94	Ordram 15-GM	lb	1.34
Clincher SF	oz	1.98	Ordram 8-E	pt	9.42
Cobra 2EC	oz	1.26	Osprey	oz	3.27
Command 3ME	pt	15.45	Outlook	pt	21.29
Cornerstone Plus	pt	1.50	Parrlay	pt	9.15
Cotoran 4L	pt	4.88	Peak Accu Pak	oz	12.63
Cotoran DF	lb	7.92	Pendimax 3.3	pt	2.47
Cotton Pro	pt	3.13	Permit 75 DF	oz	19.00
Credit Extra	pt	1.69	Poast 1.53	pt	9.47
Direx 4L	pt	3.54	Poast Plus	pt	7.37
Diuron 4L	pt	2.91	Prefix	pt	6.13
Diuron 80 DF	lb	4.55	Prometryne	pt	2.87
Diuron 80%	lb	4.55	Propimax EC	pt	36.08
DSMA 3.6lb Liq	pt	1.24	Prowl 3.3 EC	pt	4.29
Dual II Magnum	pt	13.26	Prowl H20	pt	4.65
Dual Magnum	pt	12.64	Pursuit 2S	oz	4.56
Duet	pt	4.39	Pursuit DG	oz	11.59
Envoke	oz	82.50	Pursuit Plus EC	pt	7.10
Equip	oz	10.65	Python WDG	oz	12.48
Evik DF 80W	lb	8.66	Raptor	oz	4.62
Exceed	oz	10.71			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Reflex 2LC	pt	14.68	Confirm 2F	oz	1.62
Regiment 80WP	oz	35.02	Counter 15G	lb	2.58
Remedy Ultra	pt	11.86	Cruiser 5FS	oz	13.25
Resource .86EC	pt	23.91	Curacron 8E	pt	10.37
RicePro	pt	4.50	Cypermethrin	oz	0.63
Riceshot	pt	2.98	Declare	pt	4.08
Ricestar HT	pt	20.64	Delta Gold	pt	40.47
Rifel	pt	5.66	Denim 0.16 EC	pt	26.42
Roundup Original Max	oz	0.45	Di-Syston 15G	lb	3.48
Roundup Original Max	pt	7.25	Di-Syston 8	pt	14.32
Roundup Power Max	oz	0.26	Diamond .83EC	pt	16.28
Roundup PowerMax	pt	4.14	Dimethoate 4E	pt	5.63
Roundup WeatherMax	oz	0.28	Dimilin 2L	oz	1.73
Roundup WeatherMax	pt	4.43	Dipel DF	lb	11.75
Scepter 70 DG	oz	3.81	Dipel ES	pt	4.56
Select 2EC	oz	1.53	Discipline 2 EC	oz	0.78
Select Max	pt	16.95	Endigo ZC	pt	25.82
Sencor 4F	pt	14.74	Fanfare 2EC	oz	0.78
Sencor DF	lb	14.85	Force 3G	lb	5.06
Sequence	pt	5.57	Furadan 4F	pt	10.36
Simazine 4L	pt	2.95	Gaucho 600	oz	6.56
Stalwart	pt	5.87	Hero	pt	22.11
Stam 80 EDF	lb	5.30	Holster	pt	8.76
Stam M4	qt	6.93	Imidan 70 WSB	oz	0.60
Staple	oz	16.01	Incidental Pest Trt	acre	12.00
Staple LX	oz	7.09	Intrepid 2F	oz	1.66
Steadfast	oz	22.59	Intruder 70WSP	oz	8.43
Sterling Blue	pt	9.48	Karate Z	oz	2.87
Storm	pt	11.18	Kelthane MF 4EC	pt	5.03
Strada WG	oz	5.94	Lannate LV	pt	8.81
Strongarm	oz	43.49	Lannate SP	oz	1.69
Superwham	qt	7.62	Larvin 3.2	oz	0.57
Suprend	lb	11.18	Leverage 2.7	oz	1.37
Surpass EC	qt	23.75	Lorsban 15G	lb	1.80
Synchrony XP	oz	9.47	Lorsban 4E	pt	6.20
Touchdown HiTech	qt	9.12	Malathion 57EC	pt	4.23
Touchdown Total	qt	7.66	Malathion 5E	pt	4.09
Treflan HFP	pt	3.16	Malathion 8E	pt	5.50
Treflan TR-10	lb	0.92	Methyl 4EC	pt	4.84
Trifluralin 4EC	pt	2.97	Methyl Parathion 4	pt	4.63
Ultra Blazer	pt	9.19	Monitor 4	pt	16.33
Valor SX	oz	4.72	Mustang Max	oz	1.30
Valor XLT	oz	3.59	Oberon 4 SC	pt	71.82
Weedone LV4	pt	2.97	Orthene 90S	lb	3.25
Whip 360	pt	25.08	Penncap-M	pt	3.50
Zorial Rapid 80DF	lb	13.95	Phorate	lb	2.69
INOCULANT			Pounce 25WP	lb	10.63
Vault	oz	1.65	Prolex	oz	2.94
Optimize Lift	oz	.56	Provado 1.6F	oz	1.94
INSECT SCOUTING			Respect .8EC	pt	29.04
Insect Scouting	acre	7.00	Sevin 4F	pt	4.97
INSECTICIDES			Sevin 80S	lb	7.35
Acephate 90%	lb	8.21	Sevin XLR Plus	qt	10.56
Acephate 90SP	lb	6.46	Sniper	oz	0.86
Acramite-4SC	oz	1.37	Steward	pt	25.71
Ambush 2E	oz	0.27	Temik 15G Grit	lb	3.80
Ammo 2.5 EC	oz	0.92	Temik 15G Gypsum	lb	3.14
Asana .66 XL	oz	0.68	Thimet 20-G Lock N L	lb	2.84
Aztec 2.1% G	lb	2.84	Thionex 3 EC	pt	3.47
Baythroid XL	oz	2.17	Thionex 50W	lb	8.20
Bidrin 8WM	oz	0.85	Tombstone 2E	pt	29.00
Bidrin XP	oz	1.84	Tracer 4SC	oz	7.64
Bifenture 2EC	pt	12.50	Trimax	oz	3.11
Brigade EC	pt	15.10	Trimax Pro	oz	2.73
Brigade WSB	lb	21.00	Vydate C-LV	oz	0.62
Capture 2EC	oz	1.50	Warrior Z	oz	1.85
Carbaryl 4L	pt	4.34	Wrangler	oz	1.70
Carbine 50WG	oz	4.44	Zeal	oz	18.06
Centric 40WG	oz	4.22	Zephyr	oz	2.79
Comite ll	pt	6.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
IRRIGATION SUPPLIES			Soybean Seed LL	lb	0.89
Roll-Out Pipe	ft	0.20	Soybean Seed RR	lb	0.99
SEED/PLANTS			Soybean Seed Stack	lb	1.28
Corn Seed BtRR	thous	2.90	Wheat Seed Private	lb	0.27
Corn Seed RR	thous	2.56	SURVEY & MARK LEVEES		
Corn Seed VT3	thous	2.84	Survey & Mark Levees	acre	4.50
Corn Seed VT3Pro	thous	3.12	Survey & Mark Levees	acre	3.50
Cotton Seed B2RF	thous	0.61	TECHNOLOGY FEE		
Cotton Seed LL	thous	1.05	B2 Tech Fee	thous	.76
Cotton Seed LLB2	thous	1.53	B2 Tech Fee	cap/ac	35.25
Cotton Seed RF	thous	0.57	B2RF Tech Fee	thous	1.49
Cotton Seed W	thous	0.49	B2RF Tech Fee	cap/ac	69.25
Cotton Seed WRF	thous	0.59	RF Cotton Tech Fee	thous	1.04
Peanut Seed	lb	0.75	RF Cotton Tech Fee	cap/ac	48.25
Rice Clearfield	lb	0.89	WS Cotton Tech Fee	thous	.41
Rice Clearfield Hyb	lb	5.44	WS Cotton Tech Fee	cap/ac	24.00
Rice Conv. Hybrid	lb	2.61	WRF Cotton Tech Fee	thous	1.45
Rice Seed (Levees)	lb	0.36			
Rice Seed CF(Levees)	lb	0.89			
Rice Seed CFH(Levee)	lb	1.74			
Rice Seed Conv.	lb	0.36			
Sorghum Concept	lb	1.77			
Sorghum Hybrid Sudax	lb	1.20			

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2011

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.39
Gasoline	gal	2.61
LP Gas	gal	2.50
INTEREST RATES		
Short-term	%	4.33
Intermediate-term	%	5.50

Appendix Table 6. Labor types, wage rates and unallocated labor multipliers for crop enterprises, Mississippi, 2011

Item name		
LABOR TYPES		WAGE RATE ($/HR)
OPERATOR LABOR	hour	11.35
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, 2011

	Unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '11	5.12	-0.2712	4.85	2.08	4.85
Cotton Lint	lb	Dec '11	0.872	-0.0264	0.846	.524	0.846
Cottonseed	lb						0.069[f]
Grain Sorghum	bu				4.56	2.02	4.56
Peanuts	ton				550.00	355.00	550.00
Soybeans	bu	Nov '11	11.32	-0.3070	11.00	5.17	11.00
Rice	bu	Sep '11	6.44	-0.7570	5.68	2.96	5.68
Wheat	bu	Jul '11	7.45	-0.6942	6.75	1.90	6.75

[a] Average of the futures contract month closings in October.

[b] The basis is computed by subtracting the 2001-2010 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 94% 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 2010 crop year for soybeans, corn, grain sorghum, and wheat. 2010 Mississippi base loan rate for the Delta area for cotton. 2010 Mississippi loan rate for long grain rice. 2010 national average loan rate for peanuts.

[e] Price used in the 2011 MAFES Planning Budgets.

[f] Cottonseed price is the marketing year average price averaged over the years 2005-2009, 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, 2011

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			11.56			0.21	11.77	48.35	60.12
Well & Pump, 1/4 CP	each			2.84			0.05	2.89	8.84	11.73
Engine, 1/4 CP, 65	each								6.14	6.14
June Irr. 3app@.75"	ac-in		8.03	0.83			0.16	9.02		9.02
July Irr. 4app@.75"	ac-in		10.71	1.10			0.17	11.98		11.98
Aug Irr. 3app@.75"	ac-in		8.03	0.83			0.10	8.96		8.96
TOTALS		0.00	26.77	17.16	1.84	0.00	0.72	46.49	63.33	109.82

Note: Cost of production estimates are based on 2010 input prices.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.

2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.

3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968.".

4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961

5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.

6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.

1. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.

8. "Corn, Grain Sorghum & Wheat 2010 Planning Budgets." Budget Report No. 2009-04, Department of Agricultural Economics, Mississippi State University, December 2009.

9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.

10. "Cotton 2010 Planning Budgets." Budget Report No. 2009-02, Department of Agricultural Economics, Mississippi State University, December 2009.

11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.

12. "Forage 2009 Planning Budgets." Budget Report No. 2008-1, Department of Agricultural Economics, Mississippi State University, September 2008.

13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.

14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.

15. "Mississippi Agricultural Statistics." Mississippi Department of Agriculture and Commerce and Department of Agriculture, Mississippi Agriculture Statistical Service, Jackson, Mississippi.

16. "Rice 2010 Planning Budgets." Budget Report No. 2009-05, Department of Agricultural Economics, Mississippi State University, December 2009.

17. "Soybeans 2010 Planning Budgets." Budget Report No. 2009-03, Department of Agricultural Economics, Mississippi State University, December 2009.

18. "Vegetables 2010 Planning Budgets." Budget Report No. 2009-01, Department of Agricultural Economics, Mississippi State University December 2009.

19. "Peanuts 2010 Planning Budgets." Budget Report No. 2009-08, Department of Agricultural Economics, Mississippi State University, December 2009.

MISSISSIPPI STATE UNIVERSITY

Mark E. Keenum, President

Division of Agriculture, Forestry, and Veterinary Medicine
Gregory Bohach, Vice President

Department of Agricultural Economics
Steven C. Turner, Head