RICE
2008
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2007-04

December 2007

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 2008 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses**."

Acknowledgments

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

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

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

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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. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

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 survey data from producers and/or 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 2007. (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.

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

where:

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

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

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

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 crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own operations.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2007 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

The futures price for an appropriate contract month is determined by averaging the closing prices for the month of October. The basis is determined by subtracting the average daily cash price for the month of October from the average daily closing price of the near contract month. These average futures prices and the basis adjustments are presented in Appendix Table 7.

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, 10 and 11.

Enterprise Budgets

Table 1.A Estimated costs per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	4.50	2.5000	11.25	_____
App by Air (3 gal)	appl	3.50	0.5000	1.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	12.00	0.2500	3.00	_____
DAP	cwt	16.00	0.2500	4.00	_____
Urea, Solid (46% N)	cwt	17.00	4.0000	68.00	_____
FUNGICIDES					
Stratego	pt	18.52	0.5000	9.26	_____
HERBICIDES					
Command 3ME	pt	12.75	0.6650	8.48	_____
Facet 75DF	lb	50.75	0.4000	20.30	_____
Stam M4	qt	5.98	2.0000	11.96	_____
Permit 75 DF	oz	17.49	0.2500	4.37	_____
Clincher SF	oz	1.68	7.0000	11.76	_____
INSECTICIDES					
Karate Z	oz	3.10	2.0000	6.20	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.26	90.0000	23.40	_____
Rice Seed (Levees)	lb	0.26	15.0000	3.90	_____
ADJUVANTS					
Surfactant	pt	1.55	0.0500	0.08	_____
Crop Oil Conc.(Pet.)	pt	0.80	1.0000	0.80	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	5.00	2.0000	10.00	_____
HAULING					
Haul Rice	bu	0.22	148.0000	32.56	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.00	1.0000	4.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	0.5989	6.12	_____
Harvesters	hour	10.21	0.2538	2.59	_____
IRRIGATE LABOR					
Special Labor	hour	7.31	3.5250	25.76	_____
HAND LABOR					
Special Labor	hour	7.31	0.2500	1.83	_____
Implements	hour	7.31	0.1277	0.93	_____
RICE MGT. LABOR					
Special Labor	hour	7.31	1.5000	10.97	_____
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	_____
DIESEL FUEL					
Tractors	gal	2.33	5.6409	13.12	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr.	gal	2.33	26.8827	62.63	_____
REPAIR & MAINTENANCE					
Implements	acre	5.16	1.0000	5.16	_____
Tractors	acre	2.14	1.0000	2.14	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr.	acre	8.74	1.0000	8.74	_____
INTEREST ON OP. CAP.	acre	13.17	1.0000	13.17	_____

TOTAL DIRECT EXPENSES				467.53	_____
FIXED EXPENSES					
Implements	acre	13.82	1.0000	13.82	_____
Tractors	acre	16.60	1.0000	16.60	_____
Harvesters	acre	24.11	1.0000	24.11	_____
Flood Irr.	acre	37.50	1.0000	37.50	_____

TOTAL FIXED EXPENSES				92.03	_____

TOTAL SPECIFIED EXPENSES				559.56	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 1.B Summary of estimated costs and returns per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.20	148.0000	769.60	_____
TOTAL INCOME				769.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
FERTILIZERS	acre	75.00	1.0000	75.00	_____
FUNGICIDES	acre	9.26	1.0000	9.26	_____
HERBICIDES	acre	56.87	1.0000	56.87	_____
INSECTICIDES	acre	6.20	1.0000	6.20	_____
SEED/PLANTS	acre	27.30	1.0000	27.30	_____
ADJUVANTS	acre	0.88	1.0000	0.88	_____
CUSTOM FERTILIZE	acre	10.00	1.0000	10.00	_____
HAULING	acre	32.56	1.0000	32.56	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.00	1.0000	4.00	_____
HAND LABOR	hour	7.31	0.3777	2.76	_____
IRRIGATE LABOR	hour	7.31	3.5250	25.76	_____
OPERATOR LABOR	hour	10.21	0.8528	8.71	_____
RICE MGT. LABOR	hour	7.31	1.5000	10.97	_____
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	_____
DIESEL FUEL	gal	2.33	36.1156	84.12	_____
REPAIR & MAINTENANCE	acre	21.07	1.0000	21.07	_____
INTEREST ON OP. CAP.	acre	13.17	1.0000	13.17	_____
TOTAL DIRECT EXPENSES				467.53	_____
RETURNS ABOVE DIRECT EXPENSES				302.07	_____
TOTAL FIXED EXPENSES				92.03	_____
TOTAL SPECIFIED EXPENSES				559.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				210.04	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 1.C Estimated resource use for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Harrow Fld	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller	32'-12R30	MFWD 190	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Apr		0.01	0.01	0.02	0.01
Command 3ME	pt					0.6650				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet 75DF	lb					0.4000				
App Fert by Air	cwt			0.50	May	0.5000				
Amm Sulfate (21% N)	cwt					0.2500				
DAP	cwt					0.2500				
App by Air (5 gal)	appl			0.50	May	0.5000				
Stam M4	qt					2.0000				
Permit 75 DF	oz					0.2500				
Karate Z	oz					1.0000				
Surfactant	pt					0.0500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	May		0.04	0.04	0.08	0.03
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Stratego	pt					0.5000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Rice (CL)	25' Rigid	275hp	0.253	1.00	Aug		0.25	0.25	0.25	0.22
Rice Grain Cart	700 Bu	MFWD 190	0.063	0.20	Aug		0.01	0.01	0.01	0.01
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Heavy Disk	21'	MFWD 190	0.097	2.00	Sep		0.19	0.19	0.19	0.17
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.85	0.85	6.25	0.65

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 1.D Estimated costs for field operations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Harrow Fld	40'		0.88	0.28	0.76		0.17	2.09	1.39	3.48
Field Cultivate Fld	32'		1.06	0.50	0.91		0.13	2.60	3.09	5.69
Grain Drill	24'		1.79	1.38	2.09		0.23	5.49	4.91	10.40
Rice Seed Conv.	lb	23.40					1.02	24.42		24.42
Roller	32'-12R30		1.06	0.29	0.91		0.10	2.36	2.21	4.57
Spray (Broadcast)	60'		0.32	0.10	0.32		0.03	0.77	0.49	1.26
Command 3ME	pt	8.48					0.37	8.85		8.85
Seed Levees										
Rice Seed (Levees)	lb	3.90					0.17	4.07		4.07
App by Air (5 gal)	appl	4.50					0.16	4.66		4.66
Facet 75DF	lb	20.30					0.74	21.04		21.04
App Fert by Air	cwt	2.50					0.09	2.59		2.59
Amm Sulfate (21% N)	cwt	3.00					0.11	3.11		3.11
DAP	cwt	4.00					0.15	4.15		4.15
App by Air (5 gal)	appl	2.25					0.08	2.33		2.33
Stam M4	qt	11.96					0.44	12.40		12.40
Permit 75 DF	oz	4.37					0.16	4.53		4.53
Karate Z	oz	3.10					0.11	3.21		3.21
Surfactant	pt	0.08						0.08		0.08
Spin Spreader	5 ton		0.96	0.42	1.13		0.09	2.60	1.86	4.46
Urea, Solid (46% N)	cwt	42.50					1.55	44.05		44.05
Rice Management										
RICE MGT. LABOR	hour				2.19		0.08	2.27		2.27
App by Air (5 gal)	appl	2.25					0.07	2.32		2.32
Clincher SF	oz	11.76					0.34	12.10		12.10
Crop Oil Conc.(Pet.)	pt	0.80					0.02	0.82		0.82
Rice Management										
RICE MGT. LABOR	hour				3.66		0.11	3.77		3.77
App Fert by Air	cwt	7.50					0.22	7.72		7.72
Urea, Solid (46% N)	cwt	25.50					0.74	26.24		26.24
Rice Management										
RICE MGT. LABOR	hour				3.66		0.08	3.74		3.74
App by Air (5 gal)	appl	2.25					0.05	2.30		2.30
Stratego	pt	9.26					0.20	9.46		9.46
App by Air (3 gal)	appl	1.75					0.04	1.79		1.79
Karate Z	oz	3.10					0.07	3.17		3.17
Rice Management										
RICE MGT. LABOR	hour				1.46		0.02	1.48		1.48
Header - Rice (CL)	25' Rigid		8.37	6.64	4.92		0.29	20.22	27.13	47.35
Rice Grain Cart	700 Bu		0.29	0.12	0.25		0.01	0.67	0.54	1.21
Handling & Storage										
HAND LABOR	hour				1.83		0.03	1.86		1.86
Haul Rice	bu	32.56					0.47	33.03		33.03
Dry Rice	bu	59.20					0.86	60.06		60.06
Heavy Disk	21'		4.43	2.09	3.78		0.08	10.38	9.21	19.59
Flood Irr.	acre	4.00	64.96	9.25	27.03		3.49	108.73	41.20	149.93
TOTALS		294.27	84.12	21.07	54.90	0.00	13.17	467.53	92.03	559.56

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 1.E Estimated monthly income and expense flows per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

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	769.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	2.25	4.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	25.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.26	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.48	36.63	11.76	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00	3.10	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	7.50	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	32.56	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.76	0.00	0.00	0.00	0.00	0.91	12.71	8.80	9.14	9.14	9.66	3.78
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	0.88	0.00	0.00	0.00	0.00	1.06	16.07	18.04	17.08	17.08	9.48	4.43
REPAIR & MAINTENANCE	0.28	0.00	0.00	0.00	0.00	0.50	2.96	5.75	1.28	1.28	6.93	2.09
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.13	3.13	4.78	2.20	0.96	1.72	0.08
TOTAL DIRECT EXPENSES	2.09	0.00	0.00	0.00	0.00	2.60	74.65	135.93	77.51	44.82	119.55	10.38
NET INCOME	-2.09	0.00	0.00	0.00	0.00	-2.60	-74.65	-135.93	-77.51	-44.82	650.05	-10.38
NET INCOME TO DATE	-2.09	-2.09	-2.09	-2.09	-2.09	-4.69	-79.34	-215.27	-292.78	-337.60	312.45	302.07

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs

Table 1.F Estimated returns for various price/yield combinations, per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			3.90	4.16	4.42	4.68	4.94	5.20	5.46	5.72	5.98	6.24	6.50
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-132	-113	-93	-74	-55	-36	-16	2	21	40	60
			-224	-205	-185	-166	-147	-128	-108	-89	-70	-51	-32
60	88.80	bu	-83	-60	-37	-14	8	31	54	77	100	123	146
			-176	-152	-129	-106	-83	-60	-37	-14	8	31	54
70	103.60	bu	-35	-8	18	45	72	99	126	152	179	206	233
			-127	-100	-73	-46	-19	7	34	60	87	114	141
80	118.40	bu	12	43	74	105	135	166	197	228	259	289	320
			-79	-48	-17	13	43	74	105	136	167	197	228
90	133.20	bu	61	95	130	165	199	234	269	303	338	372	407
			-30	3	38	73	107	142	177	211	246	280	315
100	148.00	bu	109	148	186	225	263	302	340	379	417	455	494
			17	56	94	133	171	210	248	287	325	363	402
110	162.80	bu	158	200	242	285	327	369	412	454	496	539	581
			66	108	150	193	235	277	320	362	404	447	489
120	177.60	bu	206	252	298	345	391	437	483	529	575	622	668
			114	160	206	252	299	345	391	437	483	530	576
130	192.40	bu	254	304	354	404	454	505	555	605	655	705	755
			162	212	262	312	362	412	463	513	563	613	663
140	207.20	bu	303	357	411	464	518	572	626	680	734	788	842
			211	265	319	372	426	480	534	588	642	696	750
150	222.00	bu	351	409	467	524	582	640	698	755	813	871	928
			259	317	375	432	490	548	606	663	721	779	836

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 2007 input prices.

Table 2.A Estimated costs per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	4.50	2.5000	11.25	_____
App by Air (3 gal)	appl	3.50	0.5000	1.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	12.00	0.2500	3.00	_____
DAP	cwt	16.00	0.2500	4.00	_____
Urea, Solid (46% N)	cwt	17.00	4.0000	68.00	_____
FUNGICIDES					
Stratego	pt	18.52	0.5000	9.26	_____
HERBICIDES					
Command 3ME	pt	12.75	0.6650	8.48	_____
Facet 75DF	lb	50.75	0.4000	20.30	_____
Stam M4	qt	5.98	2.0000	11.96	_____
Permit 75 DF	oz	17.49	0.2500	4.37	_____
Clincher SF	oz	1.68	7.0000	11.76	_____
INSECTICIDES					
Karate Z	oz	3.10	2.0000	6.20	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.26	90.0000	23.40	_____
Rice Seed (Levees)	lb	0.26	15.0000	3.90	_____
ADJUVANTS					
Surfactant	pt	1.55	0.0500	0.08	_____
Crop Oil Conc.(Pet.)	pt	0.80	1.0000	0.80	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	5.00	2.0000	10.00	_____
HAULING					
Haul Rice	bu	0.22	156.0000	34.32	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.00	0.5000	2.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	0.5513	5.64	_____
Harvesters	hour	10.21	0.2200	2.25	_____
IRRIGATE LABOR					
Special Labor	hour	7.31	2.3750	17.39	_____
HAND LABOR					
Special Labor	hour	7.31	0.2500	1.83	_____
Implements	hour	7.31	0.1277	0.93	_____
RICE MGT. LABOR					
Special Labor	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6247	6.39	_____
DIESEL FUEL					
Tractors	gal	2.33	5.2456	12.21	_____
Harvesters	gal	2.33	3.1130	7.25	_____
Flood Irr.	gal	2.33	21.9949	51.26	_____
REPAIR & MAINTENANCE					
Implements	acre	4.90	1.0000	4.90	_____
Tractors	acre	1.99	1.0000	1.99	_____
Harvesters	acre	4.36	1.0000	4.36	_____
Flood Irr.	acre	8.75	1.0000	8.75	_____
INTEREST ON OP. CAP.	acre	12.26	1.0000	12.26	_____

TOTAL DIRECT EXPENSES				439.75	_____
FIXED EXPENSES					
Implements	acre	13.06	1.0000	13.06	_____
Tractors	acre	15.45	1.0000	15.45	_____
Harvesters	acre	20.89	1.0000	20.89	_____
Flood Irr.	acre	59.48	1.0000	59.48	_____

TOTAL FIXED EXPENSES				108.88	_____

TOTAL SPECIFIED EXPENSES				548.63	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 2.B Summary of estimated costs and returns per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.20	156.0000	811.20	_____
TOTAL INCOME				811.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
FERTILIZERS	acre	75.00	1.0000	75.00	_____
FUNGICIDES	acre	9.26	1.0000	9.26	_____
HERBICIDES	acre	56.87	1.0000	56.87	_____
INSECTICIDES	acre	6.20	1.0000	6.20	_____
SEED/PLANTS	acre	27.30	1.0000	27.30	_____
ADJUVANTS	acre	0.88	1.0000	0.88	_____
CUSTOM FERTILIZE	acre	10.00	1.0000	10.00	_____
HAULING	acre	34.32	1.0000	34.32	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.00	1.0000	2.00	_____
HAND LABOR	hour	7.31	0.3777	2.76	_____
IRRIGATE LABOR	hour	7.31	2.3750	17.39	_____
OPERATOR LABOR	hour	10.21	0.7713	7.89	_____
RICE MGT. LABOR	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6247	6.39	_____
DIESEL FUEL	gal	2.33	30.3536	70.72	_____
REPAIR & MAINTENANCE	acre	20.00	1.0000	20.00	_____
INTEREST ON OP. CAP.	acre	12.26	1.0000	12.26	_____
TOTAL DIRECT EXPENSES				439.75	_____
RETURNS ABOVE DIRECT EXPENSES				371.45	_____
TOTAL FIXED EXPENSES				108.88	_____
TOTAL SPECIFIED EXPENSES				548.63	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				262.57	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 2.C Estimated resource use for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Harrow Fld	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller	32'-12R30	MFWD 190	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Apr		0.01	0.01	0.02	0.01
Command 3ME	pt					0.6650				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet 75DF	lb					0.4000				
App Fert by Air	cwt			0.50	May	0.5000				
Amm Sulfate (21% N)	cwt					0.2500				
DAP	cwt					0.2500				
App by Air (5 gal)	appl			0.50	May	0.5000				
Stam M4	qt					2.0000				
Permit 75 DF	oz					0.2500				
Karate Z	oz					1.0000				
Surfactant	pt					0.0500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	May		0.04	0.04	0.08	0.03
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Stratego	pt					0.5000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Rice (SL)	25' Rigid	275hp	0.220	1.00	Aug		0.22	0.22	0.22	0.19
Rice Grain Cart	700 Bu	MFWD 190	0.063	0.20	Aug		0.01	0.01	0.01	0.01
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Heavy Disk	21'	MFWD 190	0.097	2.00	Sep		0.19	0.19	0.19	0.17
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.77	0.77	4.22	0.62

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 2.D Estimated costs for field operations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Harrow Fld	40'		0.88	0.28	0.76		0.17	2.09	1.39	3.48
Field Cultivate Fld	32'		1.06	0.50	0.91		0.13	2.60	3.09	5.69
Grain Drill	24'		1.79	1.38	2.09		0.23	5.49	4.91	10.40
Rice Seed Conv.	lb	23.40					1.02	24.42		24.42
Roller	32'-12R30		1.06	0.29	0.91		0.10	2.36	2.21	4.57
Spray (Broadcast)	60'		0.32	0.10	0.32		0.03	0.77	0.49	1.26
Command 3ME	pt	8.48					0.37	8.85		8.85
Seed Levees										
Rice Seed (Levees)	lb	3.90					0.17	4.07		4.07
App by Air (5 gal)	appl	4.50					0.16	4.66		4.66
Facet 75DF	lb	20.30					0.74	21.04		21.04
App Fert by Air	cwt	2.50					0.09	2.59		2.59
Amm Sulfate (21% N)	cwt	3.00					0.11	3.11		3.11
DAP	cwt	4.00					0.15	4.15		4.15
App by Air (5 gal)	appl	2.25					0.08	2.33		2.33
Stam M4	qt	11.96					0.44	12.40		12.40
Permit 75 DF	oz	4.37					0.16	4.53		4.53
Karate Z	oz	3.10					0.11	3.21		3.21
Surfactant	pt	0.08						0.08		0.08
Spin Spreader	5 ton		0.96	0.42	1.13		0.09	2.60	1.86	4.46
Urea, Solid (46% N)	cwt	42.50					1.55	44.05		44.05
Rice Management										
RICE MGT. LABOR	hour				0.73		0.03	0.76		0.76
App by Air (5 gal)	appl	2.25					0.07	2.32		2.32
Clincher SF	oz	11.76					0.34	12.10		12.10
Crop Oil Conc.(Pet.)	pt	0.80					0.02	0.82		0.82
Rice Management										
RICE MGT. LABOR	hour				1.46		0.04	1.50		1.50
App Fert by Air	cwt	7.50					0.22	7.72		7.72
Urea, Solid (46% N)	cwt	25.50					0.74	26.24		26.24
Rice Management										
RICE MGT. LABOR	hour				1.46		0.03	1.49		1.49
App by Air (5 gal)	appl	2.25					0.05	2.30		2.30
Stratego	pt	9.26					0.20	9.46		9.46
App by Air (3 gal)	appl	1.75					0.04	1.79		1.79
Karate Z	oz	3.10					0.07	3.17		3.17
Rice Management										
RICE MGT. LABOR	hour				1.46		0.02	1.48		1.48
Header - Rice (SL)	25' Rigid		7.25	5.76	4.27		0.25	17.53	23.50	41.03
Rice Grain Cart	700 Bu		0.29	0.12	0.25		0.01	0.67	0.54	1.21
Handling & Storage										
HAND LABOR	hour				1.83		0.03	1.86		1.86
Haul Rice	bu	34.32					0.50	34.82		34.82
Dry Rice	bu	62.40					0.91	63.31		63.31
Heavy Disk	21'		4.43	2.09	3.78		0.08	10.38	9.21	19.59
Flood Irr.	acre	2.00	52.68	9.06	18.18		2.71	84.63	61.68	146.31
TOTALS		297.23	70.72	20.00	39.54	0.00	12.26	439.75	108.88	548.63

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 2.E Estimated monthly income and expense flows per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

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	811.20	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	2.25	4.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	25.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.26	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.48	36.63	11.76	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00	3.10	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	7.50	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	34.32	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.76	0.00	0.00	0.00	0.00	0.91	9.53	5.52	5.12	5.12	8.80	3.78
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	0.88	0.00	0.00	0.00	0.00	1.06	15.53	14.25	13.29	13.29	7.99	4.43
REPAIR & MAINTENANCE	0.28	0.00	0.00	0.00	0.00	0.50	3.02	5.69	1.22	1.22	5.98	2.09
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.13	2.87	4.52	1.96	0.79	1.74	0.08
TOTAL DIRECT EXPENSES	2.09	0.00	0.00	0.00	0.00	2.60	68.73	128.54	69.40	36.78	121.23	10.38
NET INCOME	-2.09	0.00	0.00	0.00	0.00	-2.60	-68.73	-128.54	-69.40	-36.78	689.97	-10.38
NET INCOME TO DATE	-2.09	-2.09	-2.09	-2.09	-2.09	-4.69	-73.42	-201.96	-271.36	-308.14	381.83	371.45

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			3.90	4.16	4.42	4.68	4.94	5.20	5.46	5.72	5.98	6.24	6.50
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-86	-66	-45	-25	-5	14	35	55	75	96	116
			-195	-175	-154	-134	-114	-93	-73	-53	-33	-12	7
60	93.60	bu	-35	-11	13	37	61	86	110	134	159	183	207
			-144	-120	-95	-71	-46	-22	1	26	50	74	99
70	109.20	bu	15	43	72	100	129	157	185	214	242	271	299
			-93	-64	-36	-8	20	48	77	105	133	162	190
80	124.80	bu	66	99	131	163	196	228	261	293	326	358	391
			-42	-9	22	55	87	119	152	184	217	249	282
90	140.40	bu	117	154	190	227	263	300	336	373	409	446	482
			8	45	81	118	154	191	227	264	300	337	373
100	156.00	bu	168	209	249	290	330	371	412	452	493	533	574
			59	100	140	181	222	262	303	343	384	424	465
110	171.60	bu	219	264	308	353	398	442	487	531	576	621	665
			110	155	200	244	289	333	378	423	467	512	556
120	187.20	bu	270	319	368	416	465	514	562	611	660	708	757
			161	210	259	307	356	405	453	502	551	599	648
130	202.80	bu	321	374	427	479	532	585	638	690	743	796	849
			212	265	318	371	423	476	529	581	634	687	740
140	218.40	bu	372	429	486	543	599	656	713	770	827	883	940
			263	320	377	434	491	547	604	661	718	774	831
150	234.00	bu	423	484	545	606	667	727	788	849	910	971	1032
			314	375	436	497	558	619	679	740	801	862	923

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 2007 input prices.

Table 3.A Estimated costs per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	4.50	2.5000	11.25	
App by Air (3 gal)	appl	3.50	0.5000	1.75	
FERTILIZERS					
Amm Sulfate (21% N)	cwt	12.00	0.2500	3.00	
DAP	cwt	16.00	0.2500	4.00	
Amm Nitrate (34% N)	cwt	16.00	2.5000	40.00	
Urea, Solid (46% N)	cwt	17.00	1.5000	25.50	
FUNGICIDES					
Stratego	pt	18.52	0.5000	9.26	
HERBICIDES					
Command 3ME	pt	12.75	0.6650	8.48	
Facet 75DF	lb	50.75	0.4000	20.30	
Stam M4	qt	5.98	2.0000	11.96	
Permit 75 DF	oz	17.49	0.2500	4.37	
Clincher SF	oz	1.68	7.0000	11.76	
INSECTICIDES					
Karate Z	oz	3.10	2.0000	6.20	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	
SEED/PLANTS					
Rice Seed Conv.	lb	0.26	90.0000	23.40	
Rice Seed (Levees)	lb	0.26	15.0000	3.90	
ADJUVANTS					
Surfactant	pt	1.55	0.0500	0.08	
Crop Oil Conc.(Pet.)	pt	0.80	1.0000	0.80	
CUSTOM FERTILIZE					
App Fert by Air	cwt	5.00	2.0000	10.00	
HAULING					
Haul Rice	bu	0.22	156.0000	34.32	
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.00	0.5000	2.00	
OPERATOR LABOR					
Tractors	hour	10.21	0.5794	5.93	
Harvesters	hour	10.21	0.2538	2.59	
IRRIGATE LABOR					
Special Labor	hour	7.31	1.1250	8.23	
Implements	hour	7.31	0.0375	0.27	
HAND LABOR					
Special Labor	hour	7.31	0.2500	1.83	
Implements	hour	7.31	0.1277	0.93	
RICE MGT. LABOR					
Special Labor	hour	7.31	0.7000	5.11	
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	
DIESEL FUEL					
Tractors	gal	2.33	5.4338	12.65	
Harvesters	gal	2.33	3.5919	8.37	
Flood Irr.	gal	2.33	18.7364	43.66	
REPAIR & MAINTENANCE					
Implements	acre	5.16	1.0000	5.16	
Tractors	acre	2.06	1.0000	2.06	
Harvesters	acre	5.03	1.0000	5.03	
Flood Irr.	acre	8.54	1.0000	8.54	
INTEREST ON OP. CAP.	acre	11.98	1.0000	11.98	

TOTAL DIRECT EXPENSES				430.37	
FIXED EXPENSES					
Implements	acre	14.01	1.0000	14.01	
Tractors	acre	15.96	1.0000	15.96	
Harvesters	acre	24.11	1.0000	24.11	
Flood Irr.	acre	59.24	1.0000	59.24	

TOTAL FIXED EXPENSES				113.32	

TOTAL SPECIFIED EXPENSES				543.69	

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 3.B Summary of estimated costs and returns per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.20	156.0000	811.20	
TOTAL INCOME				811.20	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	
FERTILIZERS	acre	72.50	1.0000	72.50	
FUNGICIDES	acre	9.26	1.0000	9.26	
HERBICIDES	acre	56.87	1.0000	56.87	
INSECTICIDES	acre	6.20	1.0000	6.20	
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	
SEED/PLANTS	acre	27.30	1.0000	27.30	
ADJUVANTS	acre	0.88	1.0000	0.88	
CUSTOM FERTILIZE	acre	10.00	1.0000	10.00	
HAULING	acre	34.32	1.0000	34.32	
DRYING	acre	62.40	1.0000	62.40	
SURVEY & MARK LEVEES	acre	2.00	1.0000	2.00	
HAND LABOR	hour	7.31	0.3777	2.76	
IRRIGATE LABOR	hour	7.31	1.1625	8.50	
OPERATOR LABOR	hour	10.21	0.8333	8.52	
RICE MGT. LABOR	hour	7.31	0.7000	5.11	
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	
DIESEL FUEL	gal	2.33	27.7623	64.68	
REPAIR & MAINTENANCE	acre	20.79	1.0000	20.79	
INTEREST ON OP. CAP.	acre	11.98	1.0000	11.98	
TOTAL DIRECT EXPENSES				430.37	
RETURNS ABOVE DIRECT EXPENSES				380.83	
TOTAL FIXED EXPENSES				113.32	
TOTAL SPECIFIED EXPENSES				543.69	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				267.51	

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 3.C Estimated resource use for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Harrow Fld	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller	32'-12R30	MFWD 190	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Apr		0.01	0.01	0.02	0.01
Command 3ME	pt					0.6650				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet 75DF	lb					0.4000				
App Fert by Air	cwt			0.50	May	0.5000				
Amm Sulfate (21% N)	cwt					0.2500				
DAP	cwt					0.2500				
App by Air (5 gal)	appl			0.50	May	0.5000				
Stam M4	qt					2.0000				
Permit 75 DF	oz					0.2500				
Karate Z	oz					1.0000				
Surfactant	pt					0.0500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	May		0.04	0.04	0.08	0.03
Amm Nitrate (34% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Stratego	pt					0.5000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Rice (CL)	25' Rigid	275hp	0.253	1.00	Aug		0.25	0.25	0.25	0.22
Rice Grain Cart	700 Bu	MFWD 190	0.063	0.20	Aug		0.01	0.01	0.01	0.01
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Heavy Disk	21'	MFWD 190	0.097	2.00	Sep		0.19	0.19	0.19	0.17
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.83	0.83	3.07	0.65

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 3.D Estimated costs for field operations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Harrow Fld	40'		0.88	0.28	0.76		0.17	2.09	1.39	3.48
Field Cultivate Fld	32'		1.06	0.50	0.91		0.13	2.60	3.09	5.69
Grain Drill	24'		1.79	1.38	2.09		0.23	5.49	4.91	10.40
Rice Seed Conv.	lb	23.40					1.02	24.42		24.42
Roller	32'-12R30		1.06	0.29	0.91		0.10	2.36	2.21	4.57
Spray (Broadcast)	60'		0.32	0.10	0.32		0.03	0.77	0.49	1.26
Command 3ME	pt	8.48					0.37	8.85		8.85
Seed Levees										
Rice Seed (Levees)	lb	3.90					0.17	4.07		4.07
App by Air (5 gal)	appl	4.50					0.16	4.66		4.66
Facet 75DF	lb	20.30					0.74	21.04		21.04
App Fert by Air	cwt	2.50					0.09	2.59		2.59
Amm Sulfate (21% N)	cwt	3.00					0.11	3.11		3.11
DAP	cwt	4.00					0.15	4.15		4.15
App by Air (5 gal)	appl	2.25					0.08	2.33		2.33
Stam M4	qt	11.96					0.44	12.40		12.40
Permit 75 DF	oz	4.37					0.16	4.53		4.53
Karate Z	oz	3.10					0.11	3.21		3.21
Surfactant	pt	0.08						0.08		0.08
Spin Spreader	5 ton		0.96	0.42	1.13		0.09	2.60	1.86	4.46
Amm Nitrate (34% N)	cwt	40.00					1.46	41.46		41.46
Rice Management										
RICE MGT. LABOR	hour				0.73		0.03	0.76		0.76
App by Air (5 gal)	appl	2.25					0.07	2.32		2.32
Clincher SF	oz	11.76					0.34	12.10		12.10
Crop Oil Conc.(Pet.)	pt	0.80					0.02	0.82		0.82
Rice Management										
RICE MGT. LABOR	hour				1.46		0.04	1.50		1.50
App Fert by Air	cwt	7.50					0.22	7.72		7.72
Urea, Solid (46% N)	cwt	25.50					0.74	26.24		26.24
Rice Management										
RICE MGT. LABOR	hour				1.46		0.03	1.49		1.49
App by Air (5 gal)	appl	2.25					0.05	2.30		2.30
Stratego	pt	9.26					0.20	9.46		9.46
App by Air (3 gal)	appl	1.75					0.04	1.79		1.79
Karate Z	oz	3.10					0.07	3.17		3.17
Rice Management										
RICE MGT. LABOR	hour				1.46		0.02	1.48		1.48
Header - Rice (CL)	25' Rigid		8.37	6.64	4.92		0.29	20.22	27.13	47.35
Rice Grain Cart	700 Bu		0.29	0.12	0.25		0.01	0.67	0.54	1.21
Handling & Storage										
HAND LABOR	hour				1.83		0.03	1.86		1.86
Haul Rice	bu	34.32					0.50	34.82		34.82
Dry Rice	bu	62.40					0.91	63.31		63.31
Heavy Disk	21'		4.43	2.09	3.78		0.08	10.38	9.21	19.59
Flood Irr.	acre	8.60	45.52	8.97	9.58		2.48	75.15	62.49	137.64
TOTALS		301.33	64.68	20.79	31.59	0.00	11.98	430.37	113.32	543.69

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 3.E Estimated monthly income and expense flows per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

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	811.20	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	2.25	4.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.00	25.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.26	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.48	36.63	11.76	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00	3.10	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	7.50	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	34.32	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.76	0.00	0.00	0.00	0.00	0.91	7.74	3.32	2.92	2.92	9.24	3.78
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	0.88	0.00	0.00	0.00	0.00	1.06	13.97	12.35	11.39	11.39	9.21	4.43
REPAIR & MAINTENANCE	0.28	0.00	0.00	0.00	0.00	0.50	3.05	5.64	1.17	1.17	6.89	2.09
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.13	3.01	4.28	1.84	0.69	1.78	0.08
TOTAL DIRECT EXPENSES	2.09	0.00	0.00	0.00	0.00	2.60	72.15	121.65	65.13	32.53	123.84	10.38
NET INCOME	-2.09	0.00	0.00	0.00	0.00	-2.60	-72.15	-121.65	-65.13	-32.53	687.36	-10.38
NET INCOME TO DATE	-2.09	-2.09	-2.09	-2.09	-2.09	-4.69	-76.84	-198.49	-263.62	-296.15	391.21	380.83

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs

Table 3.F Estimated returns for various price/yield combinations, per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			3.90	4.16	4.42	4.68	4.94	5.20	5.46	5.72	5.98	6.24	6.50
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-77	-56	-36	-16	4	24	44	64	85	105	125
			-190	-170	-149	-129	-109	-89	-68	-48	-28	-7	12
60	93.60	bu	-26	-1	22	46	71	95	119	144	168	192	217
			-139	-115	-90	-66	-42	-17	6	30	55	79	103
70	109.20	bu	24	53	81	110	138	166	195	223	252	280	308
			-88	-59	-31	-3	25	53	81	110	138	167	195
80	124.80	bu	75	108	140	173	205	238	270	303	335	368	400
			-37	-4	27	60	92	124	157	189	222	254	287
90	140.40	bu	127	163	200	236	273	309	346	382	419	455	492
			13	50	86	123	159	196	232	269	305	342	378
100	156.00	bu	178	218	259	299	340	380	421	461	502	543	583
			64	105	145	186	226	267	308	348	389	429	470
110	171.60	bu	229	273	318	362	407	452	496	541	585	630	675
			115	160	204	249	294	338	383	428	472	517	561
120	187.20	bu	280	328	377	426	474	523	572	620	669	718	766
			166	215	264	312	361	410	458	507	556	604	653
130	202.80	bu	331	383	436	489	542	594	647	700	752	805	858
			217	270	323	375	428	481	534	586	639	692	745
140	218.40	bu	382	438	495	552	609	666	722	779	836	893	949
			268	325	382	439	495	552	609	666	723	779	836
150	234.00	bu	433	494	554	615	676	737	798	859	919	980	1041
			319	380	441	502	563	624	684	745	806	867	928

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 2007 input prices.

Table 4.A Estimated costs per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	6.50	2.0000	13.00	_____
App by Air (5 gal)	appl	4.50	1.2500	5.63	_____
App by Air (3 gal)	appl	3.50	1.0000	3.50	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	12.00	0.2500	3.00	_____
DAP	cwt	16.00	0.2500	4.00	_____
Urea, Solid (46% N)	cwt	17.00	4.0000	68.00	_____
FUNGICIDES					
Stratego	pt	18.52	1.0000	18.52	_____
HERBICIDES					
Command 3ME	pt	12.75	0.6650	8.48	_____
Newpath 2SL	oz	3.60	8.0000	28.80	_____
Aim 2EC	oz	5.82	1.0000	5.82	_____
Beyond	oz	4.10	1.2500	5.13	_____
INSECTICIDES					
Karate Z	oz	3.10	2.0000	6.20	_____
SEED/PLANTS					
Rice Clearfield 161	lb	0.50	80.0000	40.00	_____
Rice Seed CF(Levees)	lb	0.50	14.0000	7.00	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	0.80	0.2000	0.16	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	5.00	2.5000	12.50	_____
HAULING					
Haul Rice	bu	0.22	148.0000	32.56	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.00	0.5000	2.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	0.5513	5.64	_____
Harvesters	hour	10.21	0.2538	2.59	_____
IRRIGATE LABOR					
Special Labor	hour	7.31	2.3750	17.39	_____
HAND LABOR					
Special Labor	hour	7.31	0.2500	1.83	_____
Implements	hour	7.31	0.1277	0.93	_____
RICE MGT. LABOR					
Special Labor	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	_____
DIESEL FUEL					
Tractors	gal	2.33	5.2456	12.21	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr.	gal	2.33	21.9949	51.26	_____
REPAIR & MAINTENANCE					
Implements	acre	5.11	1.0000	5.11	_____
Tractors	acre	1.99	1.0000	1.99	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr.	acre	8.75	1.0000	8.75	_____
INTEREST ON OP. CAP.	acre	13.39	1.0000	13.39	_____

TOTAL DIRECT EXPENSES				469.80	_____
FIXED EXPENSES					
Implements	acre	13.47	1.0000	13.47	_____
Tractors	acre	15.45	1.0000	15.45	_____
Harvesters	acre	24.11	1.0000	24.11	_____
Flood Irr.	acre	59.48	1.0000	59.48	_____

TOTAL FIXED EXPENSES				112.51	_____

TOTAL SPECIFIED EXPENSES				582.31	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 4.B Summary of estimated costs and returns per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.20	148.0000	769.60	_____
TOTAL INCOME				769.60	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.13	1.0000	22.13	_____
FERTILIZERS	acre	75.00	1.0000	75.00	_____
FUNGICIDES	acre	18.52	1.0000	18.52	_____
HERBICIDES	acre	48.23	1.0000	48.23	_____
INSECTICIDES	acre	6.20	1.0000	6.20	_____
SEED/PLANTS	acre	47.00	1.0000	47.00	_____
ADJUVANTS	acre	0.16	1.0000	0.16	_____
CUSTOM FERTILIZE	acre	12.50	1.0000	12.50	_____
HAULING	acre	32.56	1.0000	32.56	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	2.00	1.0000	2.00	_____
HAND LABOR	hour	7.31	0.3777	2.76	_____
IRRIGATE LABOR	hour	7.31	2.3750	17.39	_____
OPERATOR LABOR	hour	10.21	0.8051	8.23	_____
RICE MGT. LABOR	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6552	6.70	_____
DIESEL FUEL	gal	2.33	30.8326	71.84	_____
REPAIR & MAINTENANCE	acre	20.88	1.0000	20.88	_____
INTEREST ON OP. CAP.	acre	13.39	1.0000	13.39	_____
TOTAL DIRECT EXPENSES				469.80	_____
RETURNS ABOVE DIRECT EXPENSES				299.80	_____
TOTAL FIXED EXPENSES				112.51	_____
TOTAL SPECIFIED EXPENSES				582.31	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				187.29	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 4.C Estimated resource use for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Harrow Fld	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield 161	lb					80.0000				
Roller	32'-12R30	MFWD 190	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Apr		0.01	0.01	0.02	0.01
Command 3ME	pt					0.6650				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.1000				
App Fert by Air	cwt			0.50	May	0.5000				
Amm Sulfate (21% N)	cwt					0.2500				
DAP	cwt					0.2500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	May		0.04	0.04	0.08	0.03
Urea, Solid (46% N)	cwt					2.5000				
App by Air (10 gal)	appl			1.00	May	1.0000				
Newpath 2SL	oz					4.0000				
Aim 2EC	oz					1.0000				
Crop Oil Conc.(Pet.)	pt					0.1000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			0.50	Jun	0.5000				
Karate Z	oz					1.0000				
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	Jul	1.0000				
Urea, Solid (46% N)	cwt					0.7500				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Rice (CL)	25' Rigid	275hp	0.253	1.00	Aug		0.25	0.25	0.25	0.22
Rice Grain Cart	700 Bu	MFWD 190	0.063	0.20	Aug		0.01	0.01	0.01	0.01
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Heavy Disk	21'	MFWD 190	0.097	2.00	Sep		0.19	0.19	0.19	0.17
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
							-------	-------	-------	-------
TOTALS							0.80	0.80	4.25	0.65

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 4.D Estimated costs for field operations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Harrow Fld	40'		0.88	0.28	0.76		0.17	2.09	1.39	3.48
Field Cultivate Fld	32'		1.06	0.50	0.91		0.13	2.60	3.09	5.69
Grain Drill	24'		1.79	1.38	2.09		0.23	5.49	4.91	10.40
Rice Clearfield 161	lb	40.00					1.75	41.75		41.75
Roller	32'-12R30		1.06	0.29	0.91		0.10	2.36	2.21	4.57
Spray (Broadcast)	60'		0.32	0.10	0.32		0.03	0.77	0.49	1.26
Command 3ME	pt	8.48					0.37	8.85		8.85
Seed Levees										
Rice Seed CF(Levees)	lb	7.00					0.31	7.31		7.31
App by Air (10 gal)	appl	6.50					0.28	6.78		6.78
Newpath 2SL	oz	14.40					0.63	15.03		15.03
Crop Oil Conc.(Pet.)	pt	0.08						0.08		0.08
App Fert by Air	cwt	2.50					0.09	2.59		2.59
Amm Sulfate (21% N)	cwt	3.00					0.11	3.11		3.11
DAP	cwt	4.00					0.15	4.15		4.15
Spin Spreader	5 ton		0.96	0.42	1.13		0.09	2.60	1.86	4.46
Urea, Solid (46% N)	cwt	42.50					1.55	44.05		44.05
App by Air (10 gal)	appl	6.50					0.24	6.74		6.74
Newpath 2SL	oz	14.40					0.53	14.93		14.93
Aim 2EC	oz	5.82					0.21	6.03		6.03
Crop Oil Conc.(Pet.)	pt	0.08						0.08		0.08
Rice Management										
RICE MGT. LABOR	hour				0.73		0.03	0.76		0.76
App by Air (5 gal)	appl	1.13					0.03	1.16		1.16
Beyond	oz	5.13					0.15	5.28		5.28
Rice Management										
RICE MGT. LABOR	hour				1.46		0.04	1.50		1.50
App by Air (3 gal)	appl	1.75					0.05	1.80		1.80
Karate Z	oz	3.10					0.09	3.19		3.19
App Fert by Air	cwt	5.00					0.15	5.15		5.15
Urea, Solid (46% N)	cwt	12.75					0.37	13.12		13.12
App Fert by Air	cwt	5.00					0.11	5.11		5.11
Urea, Solid (46% N)	cwt	12.75					0.28	13.03		13.03
Rice Management										
RICE MGT. LABOR	hour				1.46		0.03	1.49		1.49
App by Air (5 gal)	appl	4.50					0.10	4.60		4.60
Stratego	pt	18.52					0.41	18.93		18.93
App by Air (3 gal)	appl	1.75					0.04	1.79		1.79
Karate Z	oz	3.10					0.07	3.17		3.17
Rice Management										
RICE MGT. LABOR	hour				1.46		0.02	1.48		1.48
Header - Rice (CL)	25' Rigid		8.37	6.64	4.92		0.29	20.22	27.13	47.35
Rice Grain Cart	700 Bu		0.29	0.12	0.25		0.01	0.67	0.54	1.21
Handling & Storage										
HAND LABOR	hour				1.83		0.03	1.86		1.86
Haul Rice	bu	32.56					0.47	33.03		33.03
Dry Rice	bu	59.20					0.86	60.06		60.06
Heavy Disk	21'		4.43	2.09	3.78		0.08	10.38	9.21	19.59
Flood Irr.	acre	2.00	52.68	9.06	18.18		2.71	84.63	61.68	146.31
TOTALS		323.50	71.84	20.88	40.19	0.00	13.39	469.80	112.51	582.31

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 4.E Estimated monthly income and expense flows per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

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	769.60	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	6.50	6.50	2.88	6.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	12.75	12.75	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.52	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.88	20.22	5.13	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	3.10	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	47.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	5.00	5.00	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	32.56	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.76	0.00	0.00	0.00	0.00	0.91	9.53	5.52	5.12	5.12	9.45	3.78
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	0.88	0.00	0.00	0.00	0.00	1.06	15.53	14.25	13.29	13.29	9.11	4.43
REPAIR & MAINTENANCE	0.28	0.00	0.00	0.00	0.00	0.50	3.02	5.69	1.22	1.22	6.86	2.09
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.13	4.65	3.81	1.41	1.44	1.70	0.08
TOTAL DIRECT EXPENSES	2.09	0.00	0.00	0.00	0.00	2.60	111.19	108.07	49.90	66.69	118.88	10.38
NET INCOME	-2.09	0.00	0.00	0.00	0.00	-2.60	-111.19	-108.07	-49.90	-66.69	650.72	-10.38
NET INCOME TO DATE	-2.09	-2.09	-2.09	-2.09	-2.09	-4.69	-115.88	-223.95	-273.85	-340.54	310.18	299.80

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			3.90	4.16	4.42	4.68	4.94	5.20	5.46	5.72	5.98	6.24	6.50
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-134	-115	-96	-76	-57	-38	-19	0	19	38	57
			-247	-227	-208	-189	-170	-150	-131	-112	-93	-74	-54
60	88.80	bu	-86	-63	-40	-16	6	29	52	75	98	121	144
			-198	-175	-152	-129	-106	-83	-60	-37	-14	9	32
70	103.60	bu	-37	-10	16	42	69	96	123	150	177	204	231
			-150	-123	-96	-69	-42	-15	11	38	65	92	119
80	118.40	bu	10	41	72	102	133	164	195	226	256	287	318
			-101	-71	-40	-9	21	51	82	113	144	175	205
90	133.20	bu	58	93	128	162	197	232	266	301	336	370	405
			-53	-18	15	50	85	119	154	188	223	258	292
100	148.00	bu	107	145	184	222	261	299	338	376	415	453	492
			-5	33	71	110	148	187	225	264	302	341	379
110	162.80	bu	155	198	240	282	325	367	409	452	494	536	579
			43	85	127	170	212	254	297	339	381	424	466
120	177.60	bu	204	250	296	342	388	435	481	527	573	619	665
			91	137	184	230	276	322	368	414	461	507	553
130	192.40	bu	252	302	352	402	452	502	552	602	652	702	752
			140	190	240	290	340	390	440	490	540	590	640
140	207.20	bu	301	354	408	462	516	570	624	678	732	785	839
			188	242	296	350	404	457	511	565	619	673	727
150	222.00	bu	349	407	464	522	580	638	695	753	811	868	926
			236	294	352	410	467	525	583	640	698	756	814

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 2007 input prices.

Table 5.A Estimated costs per acre
Straight levee rice – zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	4.50	2.5000	11.25	_____
App by Air (3 gal)	appl	3.50	0.5000	1.75	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	12.00	0.2500	3.00	_____
DAP	cwt	16.00	0.2500	4.00	_____
Urea, Solid (46% N)	cwt	17.00	4.0000	68.00	_____
FUNGICIDES					
Stratego	pt	18.52	0.5000	9.26	_____
HERBICIDES					
Command 3ME	pt	12.75	0.6650	8.48	_____
Facet 75DF	lb	50.75	0.4000	20.30	_____
Stam M4	qt	5.98	2.0000	11.96	_____
Permit 75 DF	oz	17.49	0.2500	4.37	_____
Clincher SF	oz	1.68	7.0000	11.76	_____
INSECTICIDES					
Karate Z	oz	3.10	2.0000	6.20	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.26	90.0000	23.40	_____
ADJUVANTS					
Surfactant	pt	1.55	0.0500	0.08	_____
Crop Oil Conc.(Pet.)	pt	0.80	1.0000	0.80	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	5.00	2.0000	10.00	_____
HAULING					
Haul Rice	bu	0.22	164.0000	36.08	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	10.21	0.4741	4.85	_____
Harvesters	hour	10.21	0.2200	2.25	_____
IRRIGATE LABOR					
Special Labor	hour	7.31	1.0500	7.69	_____
HAND LABOR					
Special Labor	hour	7.31	0.2500	1.83	_____
Implements	hour	7.31	0.1277	0.93	_____
RICE MGT. LABOR					
Special Labor	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6247	6.39	_____
DIESEL FUEL					
Tractors	gal	2.33	4.6375	10.79	_____
Harvesters	gal	2.33	3.1130	7.25	_____
Flood Irr.	gal	2.33	15.4779	36.06	_____
REPAIR & MAINTENANCE					
Implements	acre	4.82	1.0000	4.82	_____
Tractors	acre	1.76	1.0000	1.76	_____
Harvesters	acre	4.36	1.0000	4.36	_____
Flood Irr.	acre	7.35	1.0000	7.35	_____
INTEREST ON OP. CAP.	acre	11.14	1.0000	11.14	_____

TOTAL DIRECT EXPENSES				408.87	_____
FIXED EXPENSES					
Implements	acre	12.62	1.0000	12.62	_____
Tractors	acre	13.69	1.0000	13.69	_____
Harvesters	acre	20.89	1.0000	20.89	_____
Flood Irr.	acre	59.01	1.0000	59.01	_____

TOTAL FIXED EXPENSES				106.21	_____

TOTAL SPECIFIED EXPENSES				515.08	_____

Note: Cost of production estimates are based on 2007 input prices
Fertilization decisions should be based on soil tests.

Table 5.B Summary of estimated costs and returns per acre
Straight levee rice – zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.20	164.0000	852.80	_____
TOTAL INCOME				852.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.00	1.0000	13.00	_____
FERTILIZERS	acre	75.00	1.0000	75.00	_____
FUNGICIDES	acre	9.26	1.0000	9.26	_____
HERBICIDES	acre	56.87	1.0000	56.87	_____
INSECTICIDES	acre	6.20	1.0000	6.20	_____
SEED/PLANTS	acre	23.40	1.0000	23.40	_____
ADJUVANTS	acre	0.88	1.0000	0.88	_____
CUSTOM FERTILIZE	acre	10.00	1.0000	10.00	_____
HAULING	acre	36.08	1.0000	36.08	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	7.31	0.3777	2.76	_____
IRRIGATE LABOR	hour	7.31	1.0500	7.69	_____
OPERATOR LABOR	hour	10.21	0.6941	7.10	_____
RICE MGT. LABOR	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.22	0.6247	6.39	_____
DIESEL FUEL	gal	2.33	23.2285	54.10	_____
REPAIR & MAINTENANCE	acre	18.29	1.0000	18.29	_____
INTEREST ON OP. CAP.	acre	11.14	1.0000	11.14	_____
TOTAL DIRECT EXPENSES				408.87	_____
RETURNS ABOVE DIRECT EXPENSES				443.93	_____
TOTAL FIXED EXPENSES				106.21	_____
TOTAL SPECIFIED EXPENSES				515.08	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				337.72	_____

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 5.C Estimated resource use for field operations, per acre
Straight levee rice – zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Harrow Fld	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Mar		0.04	0.04	0.04	0.04
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller	32'-12R30	MFWD 190	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Apr		0.01	0.01	0.02	0.01
Command 3ME	pt					0.6650				
App by Air (5 gal)	appl			1.00	May	1.0000				
Facet 75DF	lb					0.4000				
App Fert by Air	cwt			0.50	May	0.5000				
Amm Sulfate (21% N)	cwt					0.2500				
DAP	cwt					0.2500				
App by Air (5 gal)	appl			0.50	May	0.5000				
Stam M4	qt					2.0000				
Permit 75 DF	oz					0.2500				
Karate Z	oz					1.0000				
Surfactant	pt					0.0500				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	May		0.04	0.04	0.08	0.03
Urea, Solid (46% N)	cwt					2.5000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			0.50	Jul	0.5000				
Stratego	pt					0.5000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Rice (SL)	25' Rigid	275hp	0.220	1.00	Aug		0.22	0.22	0.22	0.19
Rice Grain Cart	700 Bu	MFWD 190	0.063	0.20	Aug		0.01	0.01	0.01	0.01
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Heavy Disk	21'	MFWD 190	0.097	2.00	Sep		0.19	0.19	0.19	0.17
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.69	0.69	2.82	0.62

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 5.D Estimated costs for field operations, per acre
Straight levee rice- zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Harrow Fld	40'		0.88	0.28	0.76		0.17	2.09	1.39	3.48
Field Cultivate Fld	32'		1.06	0.50	0.91		0.13	2.60	3.09	5.69
Grain Drill	24'		1.79	1.38	2.09		0.23	5.49	4.91	10.40
Rice Seed Conv.	lb	23.40					1.02	24.42		24.42
Roller	32'-12R30		1.06	0.29	0.91		0.10	2.36	2.21	4.57
Spray (Broadcast)	60'		0.32	0.10	0.32		0.03	0.77	0.49	1.26
Command 3ME	pt	8.48					0.37	8.85		8.85
App by Air (5 gal)	appl	4.50					0.16	4.66		4.66
Facet 75DF	lb	20.30					0.74	21.04		21.04
App Fert by Air	cwt	2.50					0.09	2.59		2.59
Amm Sulfate (21% N)	cwt	3.00					0.11	3.11		3.11
DAP	cwt	4.00					0.15	4.15		4.15
App by Air (5 gal)	appl	2.25					0.08	2.33		2.33
Stam M4	qt	11.96					0.44	12.40		12.40
Permit 75 DF	oz	4.37					0.16	4.53		4.53
Karate Z	oz	3.10					0.11	3.21		3.21
Surfactant	pt	0.08						0.08		0.08
Spin Spreader	5 ton		0.96	0.42	1.13		0.09	2.60	1.86	4.46
Urea, Solid (46% N)	cwt	42.50					1.55	44.05		44.05
Rice Management										
RICE MGT. LABOR	hour				0.73		0.03	0.76		0.76
App by Air (5 gal)	appl	2.25					0.07	2.32		2.32
Clincher SF	oz	11.76					0.34	12.10		12.10
Crop Oil Conc.(Pet.)	pt	0.80					0.02	0.82		0.82
Rice Management										
RICE MGT. LABOR	hour				1.46		0.04	1.50		1.50
App Fert by Air	cwt	7.50					0.22	7.72		7.72
Urea, Solid (46% N)	cwt	25.50					0.74	26.24		26.24
Rice Management										
RICE MGT. LABOR	hour				1.46		0.03	1.49		1.49
App by Air (5 gal)	appl	2.25					0.05	2.30		2.30
Stratego	pt	9.26					0.20	9.46		9.46
App by Air (3 gal)	appl	1.75					0.04	1.79		1.79
Karate Z	oz	3.10					0.07	3.17		3.17
Rice Management										
RICE MGT. LABOR	hour				1.46		0.02	1.48		1.48
Header - Rice (SL)	25' Rigid		7.25	5.76	4.27		0.25	17.53	23.50	41.03
Rice Grain Cart	700 Bu		0.29	0.12	0.25		0.01	0.67	0.54	1.21
Handling & Storage										
HAND LABOR	hour				1.83		0.03	1.86		1.86
Haul Rice	bu	36.08					0.53	36.61		36.61
Dry Rice	bu	65.60					0.96	66.56		66.56
Heavy Disk	21'		4.43	2.09	3.78		0.08	10.38	9.21	19.59
Flood Irr.	acre		36.06	7.35	7.69		1.68	52.78	59.01	111.79
TOTALS		296.29	54.10	18.29	29.05	0.00	11.14	408.87	106.21	515.08

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.

Table 5.E Estimated monthly income and expense flows per acre
Straight levee rice – zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

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	852.80	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	2.25	4.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	25.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.26	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	8.48	36.63	11.76	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00	3.10	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	7.50	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	36.08	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00
LABOR	0.76	0.00	0.00	0.00	0.00	0.91	5.52	3.69	3.29	3.29	7.81	3.78
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	0.88	0.00	0.00	0.00	0.00	1.06	10.76	10.45	9.49	9.49	7.54	4.43
REPAIR & MAINTENANCE	0.28	0.00	0.00	0.00	0.00	0.50	2.46	5.34	0.87	0.87	5.88	2.09
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.13	2.21	4.31	1.78	0.66	1.80	0.08
TOTAL DIRECT EXPENSES	2.09	0.00	0.00	0.00	0.00	2.60	52.83	122.35	63.24	30.67	124.71	10.38
NET INCOME	-2.09	0.00	0.00	0.00	0.00	-2.60	-52.83	-122.35	-63.24	-30.67	728.09	-10.38
NET INCOME TO DATE	-2.09	-2.09	-2.09	-2.09	-2.09	-4.69	-57.52	-179.87	-243.11	-273.78	454.31	443.93

Note: Cost of production estimates are based on 2007 input prices.
Fertilization decisions should be based on soil tests.
* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
Straight levee rice – zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			3.90	4.16	4.42	4.68	4.94	5.20	5.46	5.72	5.98	6.24	6.50
PERCENT	YIELD	UNIT	dollars										
50	82.00	bu	-37	-16	5	26	47	69	90	111	133	154	175
			-143	-122	-101	-79	-58	-37	-15	5	26	48	69
60	98.40	bu	16	41	67	92	118	144	169	195	220	246	271
			-90	-64	-38	-13	12	37	63	89	114	140	165
70	114.80	bu	69	99	129	159	189	219	248	278	308	338	368
			-36	-6	23	53	82	112	142	172	202	232	262
80	131.20	bu	123	157	191	225	259	294	328	362	396	430	464
			17	51	85	119	153	187	221	256	290	324	358
90	147.60	bu	177	215	253	292	330	368	407	445	484	522	560
			70	109	147	186	224	262	301	339	377	416	454
100	164.00	bu	230	273	316	358	401	443	486	529	571	614	657
			124	167	209	252	295	337	380	423	465	508	550
110	180.40	bu	284	331	378	425	471	518	565	612	659	706	753
			178	225	271	318	365	412	459	506	553	600	647
120	196.80	bu	338	389	440	491	542	593	645	696	747	798	849
			231	282	334	385	436	487	538	589	641	692	743
130	213.20	bu	391	447	502	557	613	668	724	779	835	890	945
			285	340	396	451	507	562	618	673	728	784	839
140	229.60	bu	445	504	564	624	684	743	803	863	922	982	1042
			339	398	458	518	577	637	697	756	816	876	936
150	246.00	bu	498	562	626	690	754	818	882	946	1010	1074	1138
			392	456	520	584	648	712	776	840	904	968	1032

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 2007 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, 2008

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 (200-249 hp)	240hp	161,548	300	8	12.35	10.21	28.77	16.82	55.81	80.57	136.38
Combine (250-299 hp)	275hp	190,410	300	8	14.15	10.21	32.96	19.83	63.01	94.97	157.98
Combine (250-299 hp)	Grass295hp	211,248	300	8	15.18	10.21	35.36	22.00	67.58	105.36	172.94
Combine (300-349 hp)	325hp	224,696	300	8	16.73	10.21	38.98	23.40	72.59	112.07	184.66
Combine (350-379 hp)	370hp	241,674	300	8	19.04	10.21	44.36	25.17	79.74	120.54	200.28
Combine (395-420)	400hp	272,072	300	8	20.58	10.21	47.95	28.34	86.50	135.70	222.20
Cotton Stripper	173 hp	127,505	200	8	8.08	10.21	18.82	19.92	48.95	95.39	144.35
Tractor(40-59hp)Cab	2WD 50	28,063	600	8	2.57	10.21	5.99	0.87	17.08	6.56	23.65
Tractor(40-59hp)Cab	MFWD 50	31,198	600	8	2.57	10.21	5.99	0.97	17.18	7.30	24.48
Tractor(40-59hp)RB	2WD 50	18,365	600	8	2.57	10.21	5.99	0.57	16.78	4.29	21.07
Tractor(40-59hp)RB	MFWD 50	23,443	600	8	2.57	10.21	5.99	0.73	16.93	5.48	22.42
Tractor(60-89hp)CAB	2WD 75	38,645	600	8	3.86	10.21	8.99	1.20	20.41	9.04	29.45
Tractor(60-89hp)CAB	MFWD 75	43,217	600	8	3.86	10.21	8.99	1.35	20.55	10.11	30.66
Tractor(60-89hp)RB	2WD 75	28,341	600	8	3.86	10.21	8.99	0.88	20.09	6.63	26.72
Tractor(60-89hp)RB	MFWD 75	32,988	600	8	3.86	10.21	8.99	1.03	20.23	7.71	27.95
Tractor(90-119hp)CB	2WD 105	54,618	600	8	5.40	10.21	12.59	1.70	24.50	12.78	37.29
Tractor(90-119hp)CB	MFWD 105	63,805	600	8	5.40	10.21	12.59	1.99	24.79	14.93	39.72
Tractor(90-119hp)RB	2WD 105	39,972	600	8	5.40	10.21	12.59	1.24	24.05	9.35	33.40
Tractor(90-119hp)RB	MFWD 105	47,062	600	8	5.40	10.21	12.59	1.47	24.27	11.01	35.28
Tractor(120-139hp)CB	2WD 130	78,141	600	8	6.69	10.21	15.59	2.44	28.24	18.28	46.52
Tractor(120-139hp)CB	MFWD 130	87,621	600	8	6.69	10.21	15.59	2.73	28.53	20.50	49.04
Tractor(140-159hp)CB	2WD 150	86,566	600	8	7.72	10.21	17.98	2.70	30.90	20.25	51.16
Tractor(140-159hp)CB	MFWD 150	101,499	600	8	7.72	10.21	17.98	3.17	31.37	23.75	55.12
Tractor(160-179hp)CB	2WD 170	92,716	600	8	8.75	10.21	20.38	2.89	33.49	22.40	55.90
Tractor(160-179hp)CB	MFWD 170	113,379	600	8	8.75	10.21	20.38	3.54	34.14	27.40	61.54
Tractor(160-199hp)CB	Track 180	142,710	600	8	9.26	10.21	21.58	4.45	36.25	34.49	70.74
Tractor(180-199hp)CB	2WD 190	107,324	600	8	9.77	10.21	22.78	3.35	36.35	25.93	62.29
Tractor(180-199hp)CB	MFWD 190	119,337	600	8	9.77	10.21	22.78	3.72	36.72	28.84	65.56
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.21	26.98	4.59	41.79	35.54	77.33
Tractor(200-249hp)CB	MFWD 225	141,170	600	8	11.58	10.21	26.98	4.41	41.60	34.11	75.72
Tractor(200-249hp)CB	Track 225	163,877	600	8	11.58	10.21	26.98	5.12	42.31	39.60	81.92
Tractor(250-349hp)CB	4WD 300	151,284	600	8	15.44	10.21	35.97	4.72	50.91	36.56	87.48
Tractor(250-349hp)CB	MFWD 300	167,310	600	8	15.44	10.21	35.97	5.22	51.41	40.43	91.85
Tractor(250-349hp)CB	Track 300	197,006	600	8	15.44	10.21	35.97	6.15	52.34	47.61	99.96
Tractor(350-449hp)CB	4WD 400	195,126	600	8	20.58	10.21	47.97	6.09	64.28	47.16	111.44
Tractor(350-449hp)CB	Track 400	233,337	600	8	20.58	10.21	47.97	7.29	65.47	56.39	121.86
Tractor(450-550hp)CB	4WD 500	229,879	600	8	24.44	10.21	56.96	7.18	74.35	55.55	129.91
Tractor(450-uphp)CB	Track 475	268,277	600	8	24.44	10.21	56.96	8.38	75.55	64.84	140.40

Notes:
Labor: Includes allocated labor from power unit.
Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2008

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					
ATV - 4 Wheeler	20' Rope W	8,350	100	8	0.50	0.052	0.73	0.07	0.13	0.94	0.64	1.58
Cotton Picker-1st-BB	2R-38(157)	144,912	200	8	8.08	0.519	9.10	9.78	11.76	30.65	56.33	86.99
Cotton Picker-1st-BB	4R-30(250)	251,681	200	8	12.86	0.327	5.73	9.81	12.87	28.42	61.64	90.07
Cotton Picker-1st-BB	4R-30(325)	292,421	200	8	16.72	0.327	5.73	12.76	14.95	33.45	71.62	105.07
Cotton Picker-1st-BB	4R-30(350)	299,830	200	8	18.01	0.327	5.73	13.74	15.33	34.81	73.43	108.25
Cotton Picker-1st-BB	4R-38(255)	248,193	200	8	13.12	0.257	4.51	7.88	9.99	22.39	47.86	70.26
Cotton Picker-1st-BB	4R-38(350)	313,556	200	8	18.01	0.257	4.51	10.82	12.62	27.96	60.47	88.43
Cotton Picker-1st-BB	4R2x1(350)	322,137	200	8	18.01	0.172	3.01	7.23	8.67	18.92	41.52	60.45
Cotton Picker-1st-BB	5R-30(255)	260,177	200	8	13.12	0.261	4.58	8.00	10.64	23.24	50.97	74.22
Cotton Picker-1st-BB	5R-38(250)	270,541	200	8	12.86	0.207	3.63	6.21	8.75	18.60	41.93	60.54
Cotton Picker-1st-BB	6R-30(350)	381,665	200	8	18.01	0.218	3.82	9.16	13.01	26.00	62.32	88.32
Cotton Picker-1st-BB	6R-38(350)	384,306	200	8	18.01	0.172	3.01	7.23	10.34	20.59	49.54	70.14
Cotton Picker-1st-Tr	2R-38(157)	144,912	200	8	8.08	0.519	9.10	9.78	11.76	30.65	56.33	86.99
Cotton Picker-1st-Tr	4R-30(250)	251,681	200	8	12.86	0.327	5.73	9.81	12.87	28.42	61.64	90.07
Cotton Picker-1st-Tr	4R-30(325)	292,421	200	8	16.72	0.327	5.73	12.76	14.95	33.45	71.62	105.07
Cotton Picker-1st-Tr	4R-30(350)	299,830	200	8	18.01	0.327	5.73	13.74	15.33	34.81	73.43	108.25
Cotton Picker-1st-Tr	4R-38(255)	248,193	200	8	13.12	0.257	4.51	7.88	9.99	22.39	47.86	70.26
Cotton Picker-1st-Tr	4R-38(350)	313,556	200	8	18.01	0.257	4.51	10.82	12.62	27.96	60.47	88.43
Cotton Picker-1st-Tr	4R2x1(350)	322,137	200	8	18.01	0.172	3.01	7.23	8.67	18.92	41.52	60.45
Cotton Picker-1st-Tr	5R-30(255)	260,177	200	8	13.12	0.261	4.58	8.00	10.64	23.24	50.97	74.22
Cotton Picker-1st-Tr	5R-38(250)	270,541	200	8	12.86	0.207	3.63	6.21	8.75	18.60	41.93	60.54
Cotton Picker-1st-Tr	6R-30(350)	381,665	200	8	18.01	0.218	3.82	9.16	13.01	26.00	62.32	88.32
Cotton Picker-1st-Tr	6R-38(350)	384,306	200	8	18.01	0.172	3.01	7.23	10.34	20.59	49.54	70.14
Cotton Picker-2nd-BB	2R-38(157)	144,912	200	8	8.08	0.440	7.71	8.28	9.96	25.96	47.72	73.68
Cotton Picker-2nd-BB	4R-30(250)	251,681	200	8	12.86	0.277	4.85	8.31	10.90	24.07	52.21	76.29
Cotton Picker-2nd-BB	4R-30(325)	292,421	200	8	16.72	0.277	4.85	10.80	12.67	28.33	60.66	89.00
Cotton Picker-2nd-BB	4R-30(350)	299,830	200	8	18.01	0.277	4.85	11.64	12.99	29.49	62.20	91.69
Cotton Picker-2nd-BB	4R-38(255)	248,193	200	8	13.12	0.218	3.82	6.67	8.46	18.97	40.54	59.51
Cotton Picker-2nd-BB	4R-38(350	313,556	200	8	18.01	0.218	3.82	9.16	10.69	23.68	51.22	74.91
Cotton Picker-2nd-BB	4R2x1(350)	322,137	200	8	18.01	0.145	2.55	6.12	7.34	16.02	35.17	51.20
Cotton Picker-2nd-BB	5R-30(255)	260,177	200	8	13.12	0.221	3.88	6.78	9.01	19.69	43.18	62.87
Cotton Picker-2nd-BB	5R-38(250)	270,541	200	8	12.86	0.175	3.07	5.26	7.41	15.75	35.52	51.28
Cotton Picker-2nd-BB	6R-30(350)	381,665	200	8	18.01	0.184	3.23	7.76	11.02	22.02	52.78	74.81
Cotton Picker-2nd-BB	6R-38(350)	384,306	200	8	18.01	0.145	2.55	6.12	8.76	17.44	41.96	59.41
Cotton Picker-2nd-Tr	2R-38(157)	144,912	200	8	8.08	0.440	7.71	8.28	9.96	25.96	47.72	73.68
Cotton Picker-2nd-Tr	4R-30(250)	251,681	200	8	12.86	0.277	4.85	8.31	10.90	24.07	52.21	76.29
Cotton Picker-2nd-Tr	4R-30(325)	292,421	200	8	16.72	0.277	4.85	10.80	12.67	28.33	60.66	89.00
Cotton Picker-2nd-Tr	4R-30(350)	299,830	200	8	18.01	0.277	4.85	11.64	12.99	29.49	62.20	91.69
Cotton Picker-2nd-Tr	4R-38(255)	248,193	200	8	13.12	0.218	3.82	6.67	8.46	18.97	40.54	59.51
Cotton Picker-2nd-Tr	4R-38(350)	313,556	200	8	18.01	0.218	3.82	9.16	10.69	23.68	51.22	74.91
Cotton Picker-2nd-Tr	4R2x1(350)	322,137	200	8	18.01	0.145	2.55	6.12	7.34	16.02	35.17	51.20
Cotton Picker-2nd-Tr	5R-30(255)	260,177	200	8	13.12	0.221	3.88	6.78	9.01	19.69	43.18	62.87
Cotton Picker-2nd-Tr	5R-38(250)	270,541	200	8	12.86	0.175	3.07	5.26	7.41	15.75	35.52	51.28
Cotton Picker-2nd-Tr	6R-30(350)	381,665	200	8	18.01	0.184	3.23	7.76	11.02	22.02	52.78	74.81
Cotton Picker-2nd-Tr	6R-38(350)	384,306	200	8	18.01	0.145	2.55	6.12	8.76	17.44	41.96	59.41
Dry Applicator SP	70'300cuft	236,102	350	8	15.44	0.015	0.20	0.54	0.19	0.94	1.52	2.46
Sprayer(110Gal)	30' 47hp	35,591	350	8	2.57	0.035	0.48	0.21	0.06	0.76	0.53	1.30
Sprayer(300-450Gal)	60'	78,034	350	8	5.66	0.017	0.24	0.23	0.07	0.55	0.58	1.13
Sprayer(300-450Gal)	80'	79,024	350	8	5.66	0.013	0.18	0.17	0.05	0.41	0.44	0.86
Sprayer(600-750Gal)	60'	137,403	350	8	10.29	0.017	0.24	0.42	0.12	0.79	1.03	1.83
Sprayer(600-825Gal)	80'	155,036	350	8	10.29	0.013	0.18	0.31	0.10	0.61	0.87	1.48
Sprayer(600-825Gal)	90'	177,012	350	8	10.29	0.011	0.16	0.28	0.11	0.55	0.88	1.44
Sprayer(1000-1400Gal	100'	224,279	350	8	14.15	0.010	0.14	0.34	0.12	0.62	1.01	1.63
Sprayer(1200PlusGal)	120'	243,280	350	8	15.44	0.008	0.12	0.31	0.11	0.55	0.91	1.47
Utility Vehicle	20'	12,081	200	8	0.70	0.052	0.73	0.10	0.09	0.93	0.47	1.41
Utility Vehicle	75" Rope W	10,095	200	8	0.50	0.167	2.32	0.22	0.26	2.82	1.26	4.08

Notes:
Labor: includes allocated labor plus any additional labor from self-propelled machine.
Direct: Does not include interest on operating capital.

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008

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----------							
Bedder/Roller-Fold.	21'	MFWD 190	14,653	160	10	0.089	0.91	2.03	0.32	0.33	3.60	1.08	2.57	7.26
Bedder/Roller-Fold.	26'	MFWD 190	18,872	160	10	0.072	0.73	1.64	0.34	0.26	2.98	1.12	2.08	6.19
Bedder/Roller-Fold.	30'	MFWD 190	23,812	160	10	0.062	0.63	1.42	0.37	0.23	2.66	1.22	1.80	5.69
Bedder/Roller-Fold.	40'	MFWD 225	26,539	160	10	0.046	0.47	1.26	0.31	0.20	2.26	1.02	1.59	4.88
Bedder/Roller-Rigid	21'	MFWD 190	13,769	160	10	0.089	0.91	2.03	0.30	0.33	3.58	1.01	2.57	7.17
Bedder/Roller-Rigid	26'	MFWD 190	15,182	160	10	0.072	0.73	1.64	0.27	0.26	2.92	0.90	2.08	5.90
Bedder/Roller-Rigid	30'	MFWD 190	16,623	160	10	0.062	0.63	1.42	0.25	0.23	2.55	0.85	1.80	5.21
Bedder/Roller-Rigid	40'	MFWD 225	21,676	160	10	0.046	0.47	1.26	0.25	0.20	2.20	0.83	1.59	4.64
Blade-Box	6'-7'	2WD 130	1,236	200	20	0.020	0.20	0.31	0.01	0.04	0.57	0.01	0.36	0.95
Boll Buggy-1st pick	2R-38(157)	MFWD 190	25,891	200	10	0.519	5.30	11.84	3.36	1.93	22.44	8.66	14.98	46.10
Boll Buggy-1st pick	4R-30(255)	MFWD 190	25,891	200	10	0.327	3.34	7.45	2.11	1.22	14.14	5.45	9.44	29.04
Boll Buggy-1st pick	4R-30(325)	MFWD 190	25,891	200	10	0.327	3.34	7.45	2.11	1.22	14.14	5.45	9.44	29.04
Boll Buggy-1st Pick	4R-30(350)	MFWD 190	25,891	200	10	0.327	3.34	7.45	2.11	1.22	14.14	5.45	9.44	29.04
Boll Buggy-1st pick	4R-38(255)	MFWD 190	25,891	200	10	0.257	2.63	5.87	1.66	0.96	11.13	4.29	7.43	22.86
Boll Buggy-1st pick	4R-38(325)	MFWD 190	25,891	200	10	0.257	2.63	5.87	1.66	0.96	11.13	4.29	7.43	22.86
Boll Buggy-1st pick	4R2x1(255)	MFWD 190	25,891	200	10	0.172	1.75	3.92	1.11	0.64	7.44	2.87	4.96	15.28
Boll Buggy-1st pick	5R-30(255)	MFWD 190	25,891	200	10	0.261	2.67	5.96	1.69	0.97	11.31	4.36	7.55	23.23
Boll Buggy-1st pick	5R-38(255)	MFWD 190	25,891	200	10	0.207	2.11	4.72	1.34	0.77	8.95	3.45	5.97	18.38
Boll Buggy-1st pick	6R-30(325)	MFWD 190	25,891	200	10	0.218	2.22	4.97	1.41	0.81	9.42	3.63	6.29	19.36
Boll Buggy-1st pick	6R-38(325)	MFWD 190	25,891	200	10	0.172	1.75	3.92	1.11	0.64	7.44	2.87	4.96	15.28
Boll Buggy-2nd pick	2R-38(157)	MFWD 190	25,891	200	10	0.440	4.49	10.03	2.84	1.64	19.01	7.34	12.69	39.05
Boll Buggy-2nd pick	4R-30(255)	MFWD 190	25,891	200	10	0.277	2.83	6.31	1.79	1.03	11.97	4.62	7.99	24.60
Boll Buggy-2nd pick	4R-30(325)	MFWD 190	25,891	200	10	0.277	2.83	6.31	1.79	1.03	11.97	4.62	7.99	24.60
Boll Buggy-2nd Pick	4R-30(350)	MFWD 190	25,891	200	10	0.277	2.83	6.31	1.79	1.03	11.97	4.62	7.99	24.60
Boll Buggy-2nd pick	4R-38(255)	MFWD 190	25,891	200	10	0.218	2.22	4.97	1.41	0.81	9.43	3.64	6.29	19.37
Boll Buggy-2nd pick	4R-38(325)	MFWD 190	25,891	200	10	0.218	2.22	4.97	1.41	0.81	9.43	3.64	6.29	19.37
Boll Buggy-2nd pick	4R2x1(255)	MFWD 190	25,891	200	10	0.145	1.49	3.32	0.94	0.54	6.30	2.43	4.20	12.94
Boll Buggy-2nd pick	5R-30(255)	MFWD 190	25,891	200	10	0.221	2.26	5.05	1.43	0.82	9.58	3.69	6.39	19.68
Boll Buggy-2nd pick	5R-38(255)	MFWD 190	25,891	200	10	0.175	1.79	3.99	1.13	0.65	7.58	2.92	5.06	15.57
Boll Buggy-2nd pick	6R-30(325)	MFWD 190	25,891	200	10	0.184	1.88	4.21	1.19	0.68	7.98	3.08	5.33	16.40
Boll Buggy-2nd pick	6R-38(325)	MFWD 190	25,891	200	10	0.145	1.49	3.32	0.94	0.54	6.30	2.43	4.20	12.94
Boll Buggy-Stripper	13' Bcast	MFWD 150	25,891	200	10	0.251	2.57	4.53	1.63	0.79	9.53	4.19	5.98	19.71
Boll Buggy-Stripper	16' Bcast	MFWD 150	25,891	200	10	0.204	2.08	3.68	1.32	0.64	7.74	3.41	4.85	16.01
Boll Buggy-Stripper	19' Bcast	MFWD 150	25,891	200	10	0.172	1.75	3.09	1.11	0.54	6.52	2.87	4.09	13.48
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	25,891	200	10	0.218	2.22	3.92	1.41	0.69	8.25	3.63	5.18	17.08
Boll Buggy-Stripper	4R-36	MFWD 150	25,891	200	10	0.272	2.78	4.90	1.76	0.86	10.32	4.54	6.47	21.35
Boll Buggy-Stripper	4R-38	MFWD 150	25,891	200	10	0.257	2.63	4.63	1.66	0.81	9.75	4.29	6.12	20.17
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	25,891	200	10	0.172	1.75	3.09	1.11	0.54	6.52	2.87	4.09	13.48
Boll Buggy-Stripper	5R-30	MFWD 150	25,891	200	10	0.261	2.67	4.71	1.69	0.83	9.91	4.36	6.22	20.49
Boll Buggy-Stripper	5R-38	MFWD 150	25,891	200	10	0.207	2.11	3.72	1.34	0.65	7.84	3.45	4.92	16.21
Boll Buggy-Stripper	6R-30	MFWD 150	25,891	200	10	0.218	2.22	3.92	1.41	0.69	8.25	3.63	5.18	17.08
Boll Buggy-Stripper	6R-38	MFWD 150	25,891	200	10	0.172	1.75	3.09	1.11	0.54	6.52	2.87	4.09	13.48
Boll Buggy-Stripper	8R-30	MFWD 150	25,891	200	10	0.163	1.67	2.94	1.05	0.51	6.19	2.72	3.88	12.81
Boll Buggy-Stripper	8R-36/38	MFWD 150	25,891	200	10	0.129	1.32	2.32	0.83	0.41	4.89	2.15	3.07	10.12
Chisel Plow(Folding)	16'	2WD 130	11,115	150	12	0.115	1.17	1.80	0.46	0.28	3.72	1.03	2.11	6.87
Chisel Plow(Folding)	24'	MFWD 190	23,766	150	12	0.076	0.78	1.74	0.65	0.28	3.46	1.46	2.20	7.13
Chisel Plow(Folding)	32'	MFWD 225	28,547	150	12	0.057	0.58	1.55	0.59	0.25	2.99	1.32	1.97	6.29
Chisel Plow(Folding)	42'	MFWD 225	34,633	150	12	0.044	0.44	1.18	0.55	0.19	2.38	1.22	1.50	5.11
Chisel Plow(Folding)	50'	MFWD 225	52,947	150	10	0.036	0.37	0.99	0.84	0.16	2.38	1.72	1.26	5.37
Chisel Plow(Rigid)	15'	2WD 130	8,904	150	12	0.123	1.25	1.92	0.39	0.30	3.87	0.88	2.25	7.01
Chisel Plow(Rigid)	24'	MFWD 190	7,632	150	12	0.077	0.78	1.75	0.21	0.28	3.04	0.47	2.22	5.73
Chisel-Harrow	21 shank	2WD 190	7,632	150	12	0.088	0.89	2.00	0.24	0.29	3.44	0.54	2.28	6.26
Chisel-Harrow	27 shank	MFWD 225	10,046	150	12	0.068	0.69	1.84	0.24	0.30	3.09	0.55	2.33	5.98
Colter-Chisel-Harrow	21 shank	2WD 190	13,647	150	12	0.088	0.89	2.00	0.43	0.29	3.63	0.96	2.28	6.88
Colter-Chisel-Harrow	27 shank	MFWD 225	17,780	150	12	0.068	0.69	1.84	0.43	0.30	3.28	0.98	2.33	6.60
Corn Grain Cart 8R30	500 bu	MFWD 190	14,819	200	12	0.031	0.32	0.72	0.12	0.11	1.30	0.28	0.92	2.50
Corn Grain Cart 8R38	700bu	MFWD 190	21,566	200	12	0.025	0.25	0.56	0.14	0.09	1.06	0.32	0.72	2.11
Cult & Post	4R-30	2WD 105	13,756	150	10	0.220	3.05	2.77	0.80	0.27	6.90	2.66	2.05	11.62
Cult & Post	4R-38	2WD 105	13,403	150	10	0.173	2.40	2.18	0.61	0.21	5.41	2.04	1.62	9.08
Cult & Post	6R-30	MFWD 150	17,581	150	10	0.146	2.03	2.63	0.68	0.46	5.82	2.27	3.48	11.58
Cult & Post	6R-38	MFWD 150	17,935	150	10	0.115	1.60	2.08	0.55	0.36	4.60	1.83	2.75	9.18
Cult & Post	8R-30	MFWD 190	20,862	150	10	0.110	1.52	2.50	0.61	0.41	5.05	2.02	3.17	10.24
Cult & Post	8R-38	MFWD 190	22,267	150	10	0.086	1.20	1.98	0.51	0.32	4.02	1.70	2.50	8.24
Cult & Post	8R-38 2x1	MFWD 190	32,099	150	10	0.057	0.80	1.31	0.49	0.21	2.83	1.63	1.66	6.14
Cult & Post	10R-30	MFWD 225	28,058	150	10	0.088	1.22	2.37	0.65	0.38	4.64	2.17	3.00	9.81
Cult & Post	12R-30	MFWD 225	30,810	150	10	0.073	1.01	1.97	0.60	0.32	3.92	1.99	2.50	8.41
Cult & Post	12R-38	MFWD 225	32,099	150	10	0.057	0.80	1.56	0.49	0.25	3.11	1.63	1.97	6.72
Cult & Post	16R-30	MFWD 225	39,447	150	10	0.055	0.76	1.48	0.57	0.24	3.06	1.91	1.87	6.85
Cultipacker	12'	2WD 130	3,375	300	12	0.124	1.27	1.93	0.09	0.30	3.61	0.17	2.27	6.06
Cultipacker	20'	MFWD 150	11,551	300	12	0.074	0.76	1.34	0.20	0.23	2.54	0.35	1.77	4.67
Cultivate	4R-30	2WD 105	8,509	150	10	0.206	2.10	2.59	0.46	0.35	5.52	1.54	2.63	9.70
Cultivate	4R-38	2WD 105	8,155	150	10	0.162	1.65	2.04	0.35	0.20	4.25	1.16	1.51	6.94
Cultivate	6R-30	MFWD 150	12,334	150	10	0.137	1.40	2.47	0.45	0.43	4.76	1.49	3.26	9.52
Cultivate	6R-38	MFWD 150	12,688	150	10	0.108	1.10	1.95	0.36	0.34	3.77	1.21	2.57	7.56

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
Cultivate	8R-30	MFWD 190	15,615	150	10	0.103	1.05	2.35	0.42	0.38	4.21	1.41	2.97	8.61
Cultivate	8R-38	MFWD 190	17,020	150	10	0.081	0.83	1.85	0.36	0.30	3.36	1.22	2.35	6.93
Cultivate	8R-38 2x1	MFWD 190	26,377	150	10	0.054	0.55	1.23	0.38	0.20	2.37	1.26	1.56	5.20
Cultivate	10R-30	MFWD 225	22,810	150	10	0.082	0.84	2.22	0.50	0.36	3.93	1.65	2.81	8.40
Cultivate	12R-30	MFWD 225	25,563	150	10	0.068	0.70	1.85	0.46	0.30	3.32	1.54	2.34	7.22
Cultivate	12R-38	MFWD 225	26,377	150	10	0.054	0.55	1.46	0.38	0.23	2.64	1.26	1.85	5.75
Cultivate	16R-30	MFWD 225	34,199	150	10	0.051	0.52	1.39	0.47	0.22	2.61	1.55	1.75	5.92
Disk & Incorporate	14'	2WD 130	19,132	200	10	0.149	2.07	2.33	0.85	0.36	5.63	1.89	2.73	10.26
Disk & Incorporate	24'	MFWD 190	32,225	200	10	0.087	1.21	1.98	0.84	0.32	4.36	1.85	2.51	8.74
Disk & Incorporate	28'	MFWD 225	35,392	200	10	0.074	1.03	2.01	0.79	0.33	4.18	1.75	2.55	8.48
Disk & Incorporate	32'	MFWD 225	40,404	200	10	0.065	0.90	1.76	0.79	0.28	3.75	1.74	2.23	7.74
Disk Bed (Hipper)	4R-38	MFWD 150	6,958	160	10	0.147	1.50	2.65	0.25	0.46	4.88	0.84	3.50	9.24
Disk Bed (Hipper)	6R-30	MFWD 170	10,952	160	10	0.125	1.27	2.54	0.34	0.44	4.60	1.13	3.42	9.16
Disk Bed (Hipper)	6R-38	MFWD 170	10,952	160	10	0.098	1.00	2.01	0.27	0.34	3.63	0.89	2.70	7.23
Disk Bed (Hipper)	8R-30	MFWD 190	12,086	160	10	0.093	0.95	2.13	0.28	0.34	3.72	0.93	2.70	7.36
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	24,352	160	10	0.049	0.50	1.12	0.30	0.18	2.11	0.99	1.42	4.52
Disk Bed (Hipper)	10R-30	MFWD 225	15,222	160	10	0.075	0.76	2.02	0.28	0.33	3.40	0.94	2.55	6.90
Disk Bed (Hipper)	10R-38	MFWD 225	16,884	160	10	0.059	0.60	1.59	0.24	0.26	2.71	0.82	2.01	5.55
Disk Bed (Hipper)	12R-30	MFWD 225	17,844	160	10	0.062	0.63	1.68	0.27	0.27	2.87	0.92	2.13	5.93
Disk Bed (Hipper)	12R-38	MFWD 225	24,352	160	10	0.049	0.50	1.33	0.30	0.21	2.35	0.99	1.68	5.02
Disk Bed (Hipper)Fld	8R-38	MFWD 190	16,216	160	10	0.074	0.75	1.68	0.30	0.27	3.02	0.99	2.13	6.15
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	14,107	160	10	0.074	0.75	1.68	0.26	0.27	2.98	0.86	2.13	5.98
Disk Bed w/roller	8R-30	MFWD 190	14,262	160	10	0.093	0.95	2.13	0.33	0.34	3.77	1.10	2.70	7.58
Disk Bed w/roller	12R-30	MFWD 225	24,672	160	10	0.062	0.63	1.68	0.38	0.27	2.98	1.27	2.13	6.39
Disk Harrow	14'	2WD 130	13,885	180	10	0.140	1.43	2.18	0.54	0.34	4.50	1.43	2.56	8.50
Disk Harrow	24'	MFWD 190	26,978	180	10	0.081	0.83	1.86	0.61	0.30	3.61	1.62	2.36	7.60
Disk Harrow	28'	MFWD 225	30,144	180	10	0.070	0.71	1.89	0.58	0.30	3.50	1.55	2.39	7.45
Disk Harrow	32'	MFWD 225	35,157	180	10	0.061	0.62	1.65	0.59	0.27	3.15	1.58	2.09	6.83
Ditcher		2WD 130	4,304	200	10	0.020	0.20	0.31	0.03	0.04	0.59	0.05	0.36	1.02
Ditcher (1m/160a)		2WD 130	4,304	200	10	0.009	0.09	0.14	0.01	0.02	0.28	0.02	0.17	0.47
Fert Appl (Liquid)	4R-38	MFWD 150	11,985	150	8	0.154	2.14	2.78	1.23	0.49	6.65	1.73	3.67	12.06
Fert Appl (Liquid)	6R-30	MFWD 170	14,275	150	8	0.130	1.81	2.66	1.24	0.46	6.19	1.74	3.58	11.53
Fert Appl (Liquid)	6R-38	MFWD 170	11,780	150	8	0.103	1.43	2.10	0.81	0.36	4.71	1.13	2.83	8.69
Fert Appl (Liquid)	8R-30	MFWD 190	14,232	150	8	0.098	1.36	2.23	0.93	0.36	4.89	1.30	2.83	9.03
Fert Appl (Liquid)	8R-38	MFWD 190	14,057	150	8	0.077	1.07	1.76	0.72	0.28	3.86	1.02	2.23	7.12
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	17,213	150	8	0.051	0.71	1.17	0.59	0.19	2.68	0.83	1.49	5.00
Fert Appl (Liquid)	10R-30	MFWD 225	14,937	150	8	0.078	1.08	2.12	0.78	0.34	4.33	1.09	2.68	8.11
Fert Appl (Liquid)	10R-38	MFWD 225	16,367	150	8	0.061	0.85	1.67	0.67	0.27	3.48	0.94	2.11	6.54
Fert Appl (Liquid)	12R-30	MFWD 225	16,347	150	8	0.078	1.08	2.12	0.85	0.34	4.41	1.20	2.68	8.29
Fert Appl (Liquid)	12R-38	MFWD 225	17,213	150	8	0.051	0.71	1.39	0.59	0.22	2.93	0.83	1.76	5.52
Field Cult & Inc	42'	MFWD 225	42,551	100	10	0.037	0.52	1.01	0.40	0.16	2.11	2.12	1.28	5.52
Field Cult & Inc	50'	MFWD 225	52,527	100	10	0.031	0.43	0.85	0.41	0.13	1.85	2.20	1.08	5.13
Field Cult & Inc Fld	24'	MFWD 170	24,426	100	10	0.066	0.91	1.34	0.40	0.23	2.90	2.13	1.81	6.84
Field Cult & Inc Fld	32'	MFWD 190	33,528	100	10	0.049	0.68	1.12	0.41	0.18	2.41	2.19	1.43	6.04
Field Cult & Inc Rdg	12'	2WD 150	12,322	100	10	0.132	1.83	2.37	0.40	0.35	4.97	2.15	2.67	9.80
Field Cultivate	42'	MFWD 225	36,828	100	10	0.035	0.36	0.95	0.32	0.15	1.80	1.73	1.21	4.74
Field Cultivate	50'	MFWD 225	45,861	100	10	0.029	0.30	0.80	0.34	0.13	1.58	1.81	1.01	4.41
Field Cultivate Fld	24'	MFWD 170	19,178	100	10	0.062	0.63	1.26	0.29	0.22	2.42	1.57	1.70	5.70
Field Cultivate Fld	32'	MFWD 190	28,281	100	10	0.046	0.47	1.06	0.32	0.17	2.04	1.74	1.34	5.13
Field Cultivate Rdg	12'	2WD 150	7,075	100	10	0.124	1.27	2.23	0.22	0.33	4.06	1.16	2.52	7.74
Grain Drill	8'	2WD 130	14,887	150	8	0.235	4.12	3.67	1.31	0.57	9.69	3.17	4.30	17.18
Grain Drill	10'	2WD 130	18,354	150	8	0.188	3.30	2.93	1.29	0.46	8.00	3.13	3.44	14.58
Grain Drill	12'	2WD 130	14,144	150	8	0.157	2.75	2.44	0.83	0.38	6.42	2.01	2.87	11.30
Grain Drill	15'	MFWD 150	25,179	150	8	0.125	2.20	2.26	1.18	0.39	6.04	2.86	2.98	11.90
Grain Drill	15'11R/15"	MFWD 150	26,249	150	8	0.125	2.20	2.26	1.23	0.39	6.10	2.98	2.98	12.07
Grain Drill	20'	MFWD 170	32,350	150	8	0.094	1.65	1.92	1.14	0.33	5.05	2.76	2.58	10.39
Grain Drill	20'15R/15"	MFWD 170	31,576	150	8	0.094	1.65	1.92	1.11	0.33	5.02	2.69	2.58	10.30
Grain Drill	24'	MFWD 190	37,162	150	8	0.078	1.37	1.79	1.09	0.29	4.55	2.64	2.26	9.46
Grain Drill	25'15R/15"	MFWD 190	37,563	150	8	0.075	1.32	1.71	1.06	0.28	4.38	2.56	2.17	9.12
Grain Drill	30'	MFWD 225	44,388	150	8	0.062	1.10	1.69	1.04	0.27	4.12	2.52	2.14	8.79
Grain Drill	30'24R/15"	MFWD 225	51,181	150	8	0.062	1.10	1.69	1.20	0.27	4.28	2.91	2.14	9.33
Grain Drill	35'	MFWD 225	55,673	150	8	0.053	0.94	1.45	1.12	0.23	3.76	2.71	1.83	8.31
Grain Drill	40'	MFWD 225	80,964	150	8	0.047	0.82	1.27	1.43	0.20	3.73	3.45	1.60	8.80
Grain Drill & Pre	8'	2WD 130	20,135	150	8	0.253	4.44	3.95	1.91	0.61	10.94	4.62	4.64	20.21
Grain Drill & Pre	10'	2WD 130	23,602	150	8	0.203	3.55	3.16	1.79	0.49	9.01	4.33	3.71	17.06
Grain Drill & Pre	12'	2WD 130	19,391	150	8	0.169	2.96	2.63	1.23	0.41	7.24	2.97	3.09	13.31
Grain Drill & Pre	15'	MFWD 150	30,426	150	8	0.135	2.37	2.43	1.54	0.42	6.78	3.72	3.21	13.72
Grain Drill & Pre	15'11R/15"	MFWD 150	31,496	150	8	0.135	2.37	2.43	1.59	0.42	6.83	3.85	3.21	13.91
Grain Drill & Pre	20'	MFWD 170	37,597	150	8	0.101	1.77	2.07	1.43	0.35	5.64	3.45	2.78	11.87
Grain Drill & Pre	20'15R/15"	MFWD 170	36,823	150	8	0.101	1.77	2.07	1.40	0.35	5.61	3.38	2.78	11.77
Grain Drill & Pre	24'	MFWD 190	42,410	150	8	0.084	1.48	1.92	1.34	0.31	5.07	3.24	2.44	10.76
Grain Drill & Pre	25'15R/15"	MFWD 190	42,810	150	8	0.081	1.42	1.85	1.30	0.30	4.88	3.14	2.34	10.37
Grain Drill & Pre	30'	MFWD 225	49,635	150	8	0.067	1.18	1.82	1.25	0.29	4.57	3.04	2.30	9.92
Grain Drill & Pre	30'24R/15"	MFWD 225	56,429	150	8	0.067	1.18	1.82	1.43	0.29	4.74	3.45	2.30	10.51
Grain Drill & Pre	35'	MFWD 225	60,920	150	8	0.058	1.01	1.56	1.32	0.25	4.16	3.19	1.97	9.34

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
Grain Drill & Pre	40'	MFWD 225	86,211	150	8	0.050	0.88	1.37	1.64	0.22	4.12	3.96	1.73	9.81
Harrow Fld	40'	MFWD 190	10,620	200	10	0.038	0.39	0.88	0.14	0.14	1.57	0.27	1.11	2.96
Harrow Rdg	13'	2WD 130	3,690	200	10	0.119	1.21	1.86	0.15	0.29	3.52	0.29	2.18	6.00
Harrow Rdg	21'	2WD 150	4,590	200	10	0.073	0.75	1.33	0.11	0.20	2.40	0.22	1.49	4.12
Harrow Rdg	30'	MFWD 190	7,740	200	10	0.051	0.52	1.17	0.14	0.19	2.04	0.26	1.49	3.79
Header - Corn	4R-38	240hp	25,147	300	8	0.201	2.05	5.78	1.26	3.38	12.48	2.36	16.20	31.06
Header - Corn	6R30"	240hp	31,393	300	8	0.170	1.73	4.89	1.33	2.86	10.84	2.50	13.72	27.06
Header - Corn	6R38"	240hp	33,850	300	8	0.134	1.37	3.86	1.13	2.26	8.64	2.12	10.83	21.60
Header - Corn	8R-30	240hp	40,647	300	8	0.127	1.30	3.67	1.29	2.14	8.42	2.42	10.29	21.14
Header - Corn	8R-38	275hp	42,909	300	8	0.100	1.03	3.32	1.08	2.00	7.44	2.02	9.58	19.06
Header - Corn	12R-20	275hp	56,689	300	8	0.127	1.30	4.21	1.80	2.53	9.85	3.38	12.12	25.37
Header - Corn	12R-30	275hp	62,425	300	8	0.085	0.86	2.80	1.32	1.68	6.69	2.48	8.08	17.26
Header - Draper (CL)	25' Rigid	240hp	25,578	300	8	0.203	2.07	5.84	1.19	3.41	12.52	2.35	16.36	31.23
Header - Draper (CL)	30' Rigid	275hp	28,727	300	8	0.169	1.72	5.57	1.11	3.35	11.77	2.20	16.07	30.05
Header - Draper (CL)	36' Rigid	325hp	32,036	300	8	0.141	1.43	5.49	1.03	3.30	11.27	2.04	15.80	29.12
Header - Draper (SL)	25' Rigid	2WD 50	25,578	300	8	0.176	1.79	1.05	1.03	0.10	3.98	2.03	0.75	6.77
Header - Draper (SL)	30' Rigid	275hp	28,727	300	8	0.146	1.49	4.83	0.96	2.90	10.20	1.90	13.92	26.04
Header - Draper (SL)	36' Rigid	325hp	32,036	300	8	0.122	1.24	4.76	0.89	2.86	9.77	1.77	13.69	25.23
Header - Rice (CL)	22' Rigid	240hp	21,887	300	8	0.288	2.94	8.30	1.57	4.85	17.67	2.95	23.24	43.87
Header - Rice (CL)	25' Rigid	275hp	25,387	300	8	0.253	2.59	8.36	1.61	5.03	17.60	3.01	24.10	44.73
Header - Rice (CL)	30' Rigid	275hp	26,406	300	8	0.211	2.15	6.97	1.39	4.19	14.72	2.61	20.09	37.43
Header - Rice (SL)	22' Rigid	240hp	21,887	300	8	0.250	2.55	7.19	1.36	4.20	15.32	2.56	20.14	38.02
Header - Rice (SL)	25' Rigid	275hp	25,387	300	8	0.220	2.24	7.25	1.39	4.36	15.25	2.61	20.89	38.76
Header - Rice (SL)	30' Rigid	275hp	26,406	300	8	0.183	1.87	6.04	1.21	3.63	12.76	2.26	17.41	32.43
Header - Soybean	18' Flex	240hp	20,317	300	8	0.141	1.44	4.08	0.72	2.38	8.64	1.34	11.43	21.42
Header - Soybean	22' Flex	240hp	21,525	300	8	0.116	1.18	3.34	0.62	1.95	7.10	1.16	9.35	17.62
Header - Soybean	25' Flex	275hp	23,651	300	8	0.102	1.04	3.36	0.60	2.02	7.04	1.13	9.70	17.87
Header - Soybean	30' Flex	275hp	26,468	300	8	0.085	0.86	2.80	0.56	1.68	5.92	1.05	8.08	15.06
Header - Soybean	35' Flex	325hp	31,612	300	8	0.072	0.74	2.84	0.57	1.70	5.87	1.07	8.17	15.13
Header Wheat/Sorghum	18' Rigid	240hp	19,069	300	8	0.141	1.44	4.08	0.67	2.38	8.59	1.26	11.43	21.29
Header Wheat/Sorghum	22' Rigid	240hp	19,571	300	8	0.116	1.18	3.34	0.56	1.95	7.04	1.06	9.35	17.46
Header Wheat/Sorghum	25' Rigid	275hp	20,103	300	8	0.102	1.04	3.36	0.51	2.02	6.95	0.96	9.70	17.61
Header Wheat/Sorghum	30' Rigid	275hp	22,598	300	8	0.085	0.86	2.80	0.48	1.68	5.84	0.90	8.08	14.83
Header-Cotton Bcast	13'	173 hp	17,010	200	8	0.251	4.41	4.74	0.80	5.01	14.97	3.00	24.02	42.00
Header-Cotton-Bcast	16'	173 hp	19,260	200	8	0.204	3.58	3.85	0.73	4.07	12.25	2.76	19.51	34.53
Header-Cotton-Bcast	19'	173 hp	21,465	200	8	0.172	3.01	3.24	0.69	3.43	10.38	2.59	16.43	29.42
Header-Cotton-Brush	4R-30 2x1	173 hp	24,786	200	8	0.218	3.82	4.10	1.01	4.34	13.29	3.79	20.81	37.91
Header-Cotton-Brush	4R-36	173 hp	24,566	200	8	0.272	4.77	5.13	1.25	5.43	16.60	4.70	26.02	47.33
Header-Cotton-Brush	4R-38	173 hp	24,537	200	8	0.257	4.51	4.85	1.18	5.13	15.69	4.44	24.59	44.72
Header-Cotton-Brush	4R-38 2x1	173 hp	25,964	200	8	0.172	3.01	3.24	0.83	3.43	10.53	3.14	16.43	30.11
Header-Cotton-Brush	5R-30	173 hp	30,888	200	8	0.261	4.58	4.93	1.51	5.21	16.25	5.67	24.98	46.91
Header-Cotton-Brush	5R-38	173 hp	32,007	200	8	0.207	3.63	3.90	1.24	4.12	12.90	4.65	19.76	37.32
Header-Cotton-Brush	6R-30	173 hp	38,092	200	8	0.218	3.82	4.10	1.55	4.34	13.83	5.83	20.81	40.49
Header-Cotton-Brush	6R-38	2WD 50	39,251	200	8	0.172	3.01	1.03	1.26	0.09	5.41	4.74	0.74	10.90
Header-Cotton-Brush	8R-30	173 hp	52,457	200	8	0.163	2.86	3.08	1.61	3.26	10.82	6.02	15.61	32.46
Header-Cotton-Brush	8R-36/38	173 hp	53,607	200	8	0.129	2.26	2.43	1.30	2.57	8.58	4.86	12.34	25.79
Heavy Disk	14'	MFWD 150	17,073	180	10	0.145	1.49	2.62	0.69	0.46	5.27	1.82	3.46	10.56
Heavy Disk	21'	MFWD 170	25,186	180	10	0.097	0.99	1.98	0.68	0.34	4.00	1.79	2.66	8.46
Heavy Disk	27'	MFWD 190	35,140	180	10	0.075	0.77	1.72	0.73	0.28	3.51	1.95	2.18	7.65
Land Plane	50'x16'	MFWD 190	7,106	200	10	0.151	1.54	3.45	0.21	0.56	5.78	0.71	4.37	10.87
Levee Pull (1m/80a)	8 blade	MFWD 170	5,600	100	10	0.003	0.03	0.07	0.00	0.01	0.12	0.02	0.09	0.25
Levee Splitter (1/80	8 blade	MFWD 150	5,600	100	10	0.004	0.04	0.07	0.00	0.01	0.13	0.03	0.09	0.26
Middle Buster	4R-38	MFWD 150	7,868	160	8	0.228	2.33	4.10	0.42	0.72	7.58	1.62	5.42	14.63
Middle Buster	6R-38	MFWD 150	9,591	160	8	0.120	1.22	2.16	0.27	0.38	4.04	1.04	2.85	7.94
Middle Buster	8R-30	MFWD 190	13,977	160	8	0.114	1.16	2.60	0.37	0.42	4.56	1.44	3.29	9.30
Middle Buster	8R-38	MFWD 190	12,713	160	8	0.090	0.92	2.05	0.26	0.33	3.58	1.04	2.60	7.22
Middle Buster	8R-38 2x1	MFWD 190	20,331	160	8	0.060	0.61	1.36	0.28	0.22	2.49	1.10	1.73	5.33
Middle Buster	10R-30	MFWD 225	15,541	160	8	0.091	0.93	2.46	0.33	0.40	4.13	1.28	3.11	8.53
Middle Buster	10R-38	MFWD 225	16,508	160	8	0.072	0.73	1.94	0.27	0.31	3.27	1.07	2.45	6.81
Middle Buster	12R-38	MFWD 225	20,331	160	8	0.060	0.61	1.62	0.28	0.26	2.78	1.10	2.05	5.94
Module Builder-1st	2R-38(157)	MFWD 190	33,304	200	10	0.519	9.10	11.84	4.32	1.93	27.21	11.14	14.98	53.34
Module Builder-1st	4R-30(255)	MFWD 190	33,304	200	10	0.327	5.73	7.45	2.72	1.22	17.14	7.02	9.44	33.60
Module Builder-1st	4R-30(325)	MFWD 190	33,304	200	10	0.327	5.73	7.45	2.72	1.22	17.14	7.02	9.44	33.60
Module Builder-1st	4R-30(350)	MFWD 190	33,304	200	10	0.327	5.73	7.45	2.72	1.22	17.14	7.02	9.44	33.60
Module Builder-1st	4R-38(255)	MFWD 190	33,304	200	10	0.257	4.51	5.87	2.14	0.96	13.49	5.52	7.43	26.46
Module Builder-1st	4R-38(325)	MFWD 190	33,304	200	10	0.257	4.51	5.87	2.14	0.96	13.49	5.52	7.43	26.46
Module Builder-1st	4R2x1(255)	MFWD 190	33,304	200	10	0.172	3.01	3.92	1.43	0.64	9.02	3.69	4.96	17.68
Module Builder-1st	5R-30(255)	MFWD 190	33,304	200	10	0.261	4.58	5.96	2.18	0.97	13.71	5.61	7.55	26.88
Module Builder-1st	5R-38(255)	MFWD 190	33,304	200	10	0.207	3.63	4.72	1.72	0.77	10.84	4.44	5.97	21.27
Module Builder-1st	6R-30(325)	MFWD 190	33,304	200	10	0.218	3.82	4.97	1.81	0.81	11.42	4.68	6.29	22.40
Module Builder-1st	6R-38(325)	MFWD 190	33,304	200	10	0.172	3.01	3.92	1.43	0.64	9.02	3.69	4.96	17.68
Module Builder-2nd	2R-38(157)	MFWD 190	33,304	200	10	0.440	7.71	10.03	3.66	1.64	23.04	9.44	12.69	45.18
Module Builder-2nd	4R-30(255)	MFWD 190	33,304	200	10	0.277	4.85	6.31	2.30	1.03	14.52	5.94	7.99	28.46
Module Builder-2nd	4R-30(325)	MFWD 190	33,304	200	10	0.277	4.85	6.31	2.30	1.03	14.52	5.94	7.99	28.46

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
Module Builder-2nd	4R-30(350)	MFWD 190	33,304	200	10	0.277	4.85	6.31	2.30	1.03	14.52	5.94	7.99	28.46
Module Builder-2nd	4R-38(255)	MFWD 190	33,304	200	10	0.218	3.82	4.97	1.81	0.81	11.43	4.68	6.29	22.41
Module Builder-2nd	4R-38(325)	MFWD 190	33,304	200	10	0.218	3.82	4.97	1.81	0.81	11.43	4.68	6.29	22.41
Module Builder-2nd	4R2x1(255)	MFWD 190	33,304	200	10	0.145	2.55	3.32	1.21	0.54	7.64	3.13	4.20	14.98
Module Builder-2nd	5R-30(255)	MFWD 190	33,304	200	10	0.221	3.88	5.05	1.84	0.82	11.61	4.75	6.39	22.77
Module Builder-2nd	5R-38(255)	MFWD 190	33,304	200	10	0.175	3.07	3.99	1.46	0.65	9.19	3.76	5.06	18.01
Module Builder-2nd	6R-30(325)	MFWD 190	33,304	200	10	0.184	3.23	4.21	1.53	0.68	9.68	3.96	5.33	18.97
Module Builder-2nd	6R-38(325)	MFWD 190	33,304	200	10	0.145	2.55	3.32	1.21	0.54	7.64	3.13	4.20	14.98
Module Builder-Strip	13' Bcast	MFWD 150	33,304	200	10	0.251	4.41	4.53	2.09	0.79	11.83	5.40	5.98	23.22
Module Builder-Strip	16' Bcast	MFWD 150	33,304	200	10	0.204	3.58	3.68	1.70	0.64	9.61	4.38	4.85	18.86
Module Builder-Strip	19' Bcast	MFWD 150	33,304	200	10	0.172	3.01	3.09	1.43	0.54	8.09	3.69	4.09	15.88
Module Builder-Strip	4R-30 2x1	MFWD 150	33,304	200	10	0.218	3.82	3.92	1.81	0.69	10.25	4.68	5.18	20.12
Module Builder-Strip	4R-36	MFWD 150	33,304	200	10	0.272	4.77	4.90	2.27	0.86	12.82	5.85	6.47	25.15
Module Builder-Strip	4R-38	MFWD 150	33,304	200	10	0.257	4.51	4.63	2.14	0.81	12.11	5.52	6.12	23.76
Module Builder-Strip	4R-38 2x1	MFWD 150	33,304	200	10	0.172	3.01	3.09	1.43	0.54	8.09	3.69	4.09	15.88
Module Builder-Strip	5R-30	MFWD 150	33,304	200	10	0.261	4.58	4.71	2.18	0.83	12.31	5.61	6.22	24.14
Module Builder-Strip	5R-38	MFWD 150	33,304	200	10	0.207	3.63	3.72	1.72	0.65	9.73	4.44	4.92	19.10
Module Builder-Strip	6R-30	MFWD 150	33,304	200	10	0.218	3.82	3.92	1.81	0.69	10.25	4.68	5.18	20.12
Module Builder-Strip	6R-38	MFWD 190	33,304	200	10	0.172	3.01	3.92	1.43	0.64	9.02	3.69	4.96	17.68
Module Builder-Strip	8R-36/38	MFWD 190	33,304	200	10	0.129	2.26	2.94	1.07	0.48	6.77	2.77	3.73	13.28
NT Grain Drill	10'	2WD 130	24,867	150	8	0.235	4.12	3.67	2.19	0.57	10.57	5.30	4.30	20.19
NT Grain Drill	12'	2WD 130	28,658	150	8	0.163	2.86	2.55	1.75	0.39	7.57	4.24	2.99	14.81
NT Grain Drill	15'	MFWD 150	35,830	150	8	0.130	2.29	2.35	1.75	0.41	6.82	4.24	3.11	14.18
NT Grain Drill	20'	MFWD 170	47,785	150	8	0.098	1.72	2.00	1.75	0.34	5.83	4.24	2.69	12.77
NT Grain Drill	24'	MFWD 190	71,246	150	8	0.081	1.43	1.86	2.18	0.30	5.79	5.27	2.36	13.43
NT Grain Drill	30'	MFWD 225	70,350	150	8	0.065	1.14	1.76	1.72	0.28	4.93	4.16	2.23	11.33
NT Grain Drill & Pre	10'	2WD 130	30,114	150	8	0.211	3.70	3.29	2.38	0.51	9.90	5.76	3.86	19.54
NT Grain Drill & Pre	12'	2WD 130	33,905	150	8	0.176	3.08	2.74	2.24	0.43	8.50	5.41	3.22	17.14
NT Grain Drill & Pre	15'	MFWD 150	41,077	150	8	0.141	2.47	2.53	2.17	0.44	7.62	5.24	3.34	16.22
NT Grain Drill & Pre	20'	MFWD 170	53,032	150	8	0.105	1.85	2.15	2.10	0.37	6.48	5.07	2.89	14.46
NT Grain Drill & Pre	24'	MFWD 190	76,493	150	8	0.088	1.54	2.00	2.52	0.32	6.40	6.10	2.54	15.05
NT Grain Drill & Pre	30'	MFWD 225	75,598	150	8	0.070	1.23	1.90	1.99	0.31	5.44	4.82	2.40	12.67
NT Plant&Pre-Folding	8R-38	MFWD 170	43,021	150	8	0.083	1.46	1.70	1.34	0.29	4.81	3.25	2.29	10.36
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	57,305	150	8	0.055	0.97	1.13	1.19	0.19	3.50	2.88	1.52	7.91
NT Plant&Pre-Folding	10R-30	MFWD 190	55,481	150	8	0.084	1.48	1.92	1.76	0.31	5.48	4.24	2.44	12.17
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.16	1.52	1.32	0.24	4.26	3.19	1.92	9.38
NT Plant&Pre-Folding	12R-20	MFWD 190	54,256	150	8	0.105	1.85	2.41	2.15	0.39	6.80	5.19	3.05	15.05
NT Plant&Pre-Folding	12R-30	MFWD 190	63,616	150	8	0.070	1.23	1.60	1.68	0.26	4.78	4.06	2.03	10.88
NT Plant&Pre-Folding	12R-38	MFWD 190	59,634	150	8	0.055	0.97	1.26	1.24	0.20	3.69	3.00	1.60	8.30
NT Plant&Pre-Folding	16R-30	MFWD 190	85,789	150	8	0.052	0.92	1.20	1.70	0.19	4.02	4.10	1.52	9.66
NT Plant&Pre-Folding	23R-15	MFWD 190	99,593	150	8	0.073	1.28	1.67	2.74	0.27	5.97	6.62	2.11	14.71
NT Plant&Pre-Folding	24R-15	MFWD 225	101,578	150	8	0.070	1.23	1.90	2.68	0.31	6.13	6.48	2.40	15.02
NT Plant&Pre-Folding	24R-20	MFWD 190	116,358	150	8	0.052	0.92	1.20	2.30	0.19	4.63	5.56	1.52	11.73
NT Plant&Pre-Folding	24R-30	MFWD 190	141,887	150	8	0.035	0.61	0.80	1.87	0.13	3.42	4.52	1.01	8.97
NT Plant&Pre-Folding	31R-15	MFWD 225	126,903	150	8	0.054	0.95	1.47	2.60	0.24	5.27	6.27	1.86	13.41
NT Plant&Pre-Folding	32R-15	MFWD 225	128,819	150	8	0.052	0.92	1.42	2.55	0.23	5.14	6.16	1.80	13.11
NT Plant&Pre-Folding	32R-30	MFWD 225	211,058	150	8	0.026	0.46	0.71	2.09	0.11	3.38	5.05	0.90	9.33
NT Plant&Pre-Folding	36R-20	MFWD 225	148,766	150	8	0.035	0.61	0.95	1.96	0.15	3.69	4.74	1.20	9.64
NT Plant&Pre-Folding	36R-30	MFWD 225	216,431	150	8	0.023	0.41	0.63	1.90	0.10	3.05	4.60	0.80	8.46
NT Plant&Pre-Rigid	4R-30	2WD 130	23,011	150	8	0.211	3.70	3.29	1.82	0.51	9.34	4.40	3.86	17.62
NT Plant&Pre-Rigid	4R-38	2WD 130	23,351	150	8	0.166	2.91	2.59	1.45	0.40	7.38	3.52	3.04	13.94
NT Plant&Pre-Rigid	6R-30	MFWD 150	29,138	150	8	0.141	2.47	2.53	1.54	0.44	6.99	3.71	3.34	14.06
NT Plant&Pre-Rigid	6R-38	MFWD 150	28,778	150	8	0.111	1.95	2.00	1.20	0.35	5.50	2.90	2.64	11.05
NT Plant&Pre-Rigid	8R-30	MFWD 170	34,646	150	8	0.105	1.85	2.15	1.37	0.37	5.75	3.31	2.89	11.97
NT Plant&Pre-Rigid	8R-38	MFWD 170	32,221	150	8	0.083	1.46	1.70	1.01	0.29	4.47	2.43	2.29	9.20
NT Plant&Pre-Rigid	10R-30	MFWD 190	35,847	150	8	0.084	1.48	1.92	1.13	0.31	4.86	2.74	2.44	10.05
NT Plant&Pre-Rigid	11R-15	MFWD 170	41,039	150	8	0.143	2.52	2.93	2.21	0.50	8.17	5.34	3.94	17.46
NT Plant&Pre-Rigid	11R-20	MFWD 170	37,716	150	8	0.115	2.02	2.35	1.63	0.40	6.42	3.94	3.16	13.54
NT Plant&Pre-Rigid	12R-20	MFWD 190	51,000	150	8	0.105	1.85	2.41	2.02	0.39	6.68	4.88	3.05	14.61
NT Plant&Pre-Rigid	12R-30	MFWD 190	53,261	150	8	0.070	1.23	1.60	1.40	0.26	4.51	3.39	2.03	9.94
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	47,102	150	8	0.097	1.70	2.63	1.72	0.43	6.49	4.15	3.32	13.97
NT Plant&Pre-Rigid	13R-36/40	MFWD 225	42,223	150	8	0.051	0.90	1.39	0.81	0.22	3.34	1.97	1.76	7.07
NT Plant&Pre-Rigid	15R-15	MFWD 190	51,943	150	8	0.113	1.98	2.57	2.20	0.42	7.18	5.31	3.26	15.76
NT Plant&Pre-Rigid	15R-20	MFWD 190	51,799	150	8	0.084	1.48	1.92	1.64	0.31	5.37	3.96	2.44	11.77
NT Plant&Pre-Rigid	16R-30	MFWD 225	91,438	150	8	0.052	0.92	1.42	1.81	0.23	4.39	4.37	1.80	10.58
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	93,702	150	8	0.055	0.97	1.50	1.95	0.24	4.67	4.72	1.89	11.30
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	72,036	150	8	0.083	1.46	2.25	2.25	0.36	6.34	5.45	2.85	14.65
NT Plant-Folding	8R-38	MFWD 170	37,773	150	8	0.077	1.36	1.58	1.09	0.27	4.31	2.65	2.12	9.10
NT Plant-Folding	8R-38 2x1	MFWD 170	52,058	150	8	0.051	0.90	1.05	1.00	0.18	3.15	2.43	1.41	7.00
NT Plant-Folding	10R-30	MFWD 190	50,234	150	8	0.078	1.37	1.79	1.48	0.29	4.94	3.57	2.26	10.77
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.08	1.41	1.10	0.23	3.83	2.67	1.78	8.29
NT Plant-Folding	12R-20	MFWD 190	49,009	150	8	0.098	1.72	2.23	1.80	0.36	6.12	4.35	2.83	13.31
NT Plant-Folding	12R-30	MFWD 190	58,369	150	8	0.065	1.14	1.49	1.43	0.24	4.31	3.45	1.88	9.66
NT Plant-Folding	12R-38	MFWD 190	53,912	150	8	0.051	0.90	1.17	1.04	0.19	3.32	2.52	1.49	7.33
NT Plant-Folding	16R-30	MFWD 190	80,067	150	8	0.049	0.86	1.11	1.47	0.18	3.63	3.55	1.41	8.61

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
NT Plant-Folding	23R-15	MFWD 190	94,346	150	8	0.068	1.19	1.55	2.41	0.25	5.41	5.82	1.96	13.20
NT Plant-Folding	24R-15	MFWD 225	96,331	150	8	0.065	1.14	1.76	2.36	0.28	5.56	5.70	2.23	13.51
NT Plant-Folding	24R-20	MFWD 190	110,635	150	8	0.049	0.86	1.11	2.03	0.18	4.20	4.91	1.41	10.53
NT Plant-Folding	24R-30	MFWD 190	134,092	150	8	0.032	0.57	0.74	1.64	0.12	3.08	3.97	0.94	8.00
NT Plant-Folding	31R-15	MFWD 225	119,109	150	8	0.050	0.88	1.36	2.26	0.22	4.75	5.47	1.73	11.95
NT Plant-Folding	32R-15	MFWD 225	121,025	150	8	0.049	0.86	1.32	2.22	0.21	4.63	5.38	1.67	11.68
NT Plant-Folding	32R-30	MFWD 225	203,263	150	8	0.024	0.43	0.66	1.87	0.10	3.07	4.51	0.83	8.42
NT Plant-Folding	36R-20	MFWD 225	140,972	150	8	0.032	0.57	0.88	1.73	0.14	3.33	4.17	1.11	8.62
NT Plant-Folding	36R-30	MFWD 225	208,636	150	8	0.021	0.38	0.58	1.70	0.09	2.77	4.12	0.74	7.64
NT Plant-Rigid	4R-30	2WD 130	17,764	150	8	0.196	3.44	3.06	1.30	0.47	8.29	3.15	3.59	15.04
NT Plant-Rigid	4R-38	2WD 130	18,104	150	8	0.154	2.70	2.41	1.05	0.37	6.54	2.53	2.82	11.91
NT Plant-Rigid	6R-30	MFWD 150	23,891	150	8	0.130	2.29	2.35	1.17	0.41	6.23	2.83	3.11	12.18
NT Plant-Rigid	6R-38	MFWD 150	23,531	150	8	0.103	1.81	1.85	0.91	0.32	4.91	2.20	2.45	9.56
NT Plant-Rigid	8R-30	MFWD 170	29,399	150	8	0.098	1.72	2.00	1.08	0.34	5.15	2.61	2.69	10.45
NT Plant-Rigid	8R-38	MFWD 170	26,974	150	8	0.077	1.36	1.58	0.78	0.27	4.00	1.89	2.12	8.02
NT Plant-Rigid	10R-30	MFWD 190	30,600	150	8	0.078	1.37	1.79	0.90	0.29	4.36	2.17	2.26	8.80
NT Plant-Rigid	11R-15	MFWD 170	35,791	150	8	0.133	2.34	2.72	1.79	0.47	7.33	4.32	3.66	15.32
NT Plant-Rigid	11R-20	MFWD 170	32,468	150	8	0.107	1.88	2.18	1.30	0.38	5.75	3.15	2.94	11.85
NT Plant-Rigid	12R-20	MFWD 190	45,753	150	8	0.098	1.72	2.23	1.68	0.36	6.00	4.06	2.83	12.90
NT Plant-Rigid	12R-30	MFWD 190	48,014	150	8	0.065	1.14	1.49	1.17	0.24	4.06	2.84	1.88	8.79
NT Plant-Rigid	13R-18/20	MFWD 225	41,380	150	8	0.090	1.59	2.45	1.41	0.40	5.85	3.40	3.10	12.36
NT Plant-Rigid	13R-36/40	MFWD 225	36,500	150	8	0.047	0.83	1.29	0.65	0.21	2.99	1.58	1.63	6.21
NT Plant-Rigid	15R-15	MFWD 190	46,220	150	8	0.105	1.84	2.39	1.82	0.39	6.44	4.39	3.02	13.87
NT Plant-Rigid	15R-20	MFWD 190	46,076	150	8	0.078	1.37	1.79	1.35	0.29	4.81	3.27	2.26	10.36
NT Plant-Rigid	16R-30	MFWD 225	85,715	150	8	0.049	0.86	1.32	1.57	0.21	3.98	3.81	1.67	9.46
NT Plant-TwinRow	12R-30/40	MFWD 225	87,980	150	8	0.051	0.90	1.39	1.70	0.22	4.23	4.11	1.76	10.11
NT Plant-TwinRow	8R-30/40	MFWD 225	66,789	150	8	0.077	1.36	2.09	1.94	0.34	5.74	4.69	2.64	13.08
Paratill & Bed Fold.	8R-38	MFWD 225	30,876	150	12	0.080	0.82	2.17	0.90	0.35	4.26	2.00	2.75	9.02
Paratill & Bed Fold.	8R-38 2x1	MFWD 225	42,878	150	12	0.053	0.54	1.45	0.83	0.23	3.06	1.85	1.83	6.76
Paratill & Bed Fold.	10R-30	MFWD 225	24,840	150	12	0.081	0.83	2.20	0.73	0.36	4.13	1.63	2.78	8.55
Paratill & Bed Fold.	12R-38	MFWD 225	42,878	150	12	0.053	0.54	1.45	0.83	0.23	3.06	1.85	1.83	6.76
Paratill & Bed Rigid	4R-30	MFWD 225	9,794	150	12	0.204	2.08	5.51	0.72	0.90	9.22	1.61	6.97	17.80
Paratill & Bed Rigid	4R-38	MFWD 225	10,068	150	12	0.160	1.64	4.34	0.58	0.70	7.27	1.30	5.48	14.07
Paratill & Bed Rigid	6R-30	MFWD 225	13,527	150	12	0.136	1.39	3.67	0.66	0.60	6.33	1.48	4.64	12.46
Paratill & Bed Rigid	6R-38	MFWD 225	15,868	150	12	0.107	1.09	2.90	0.61	0.47	5.09	1.37	3.66	10.13
Paratill & Bed Rigid	8R-30	MFWD 225	17,858	150	12	0.102	1.04	2.75	0.65	0.45	4.90	1.46	3.48	9.86
Paratill & Bed Rigid	8R-38	MFWD 225	20,542	150	12	0.080	0.82	2.17	0.59	0.35	3.95	1.33	2.75	8.05
Paratill & Bed Rigid	10R-30	MFWD 225	19,308	150	12	0.081	0.83	2.20	0.56	0.36	3.97	1.27	2.78	8.02
Peanut Cond.& Lifter	6-Row	MFWD 190	10,705	300	20	0.100	1.02	2.27	0.17	0.37	3.85	0.36	2.88	7.09
Peanut Conditioner	4-Row	MFWD 190	6,035	300	20	0.142	1.45	3.25	0.24	0.53	5.49	0.27	4.12	9.88
Peanut Conditioner	6-Row	MFWD 190	9,265	300	20	0.100	1.02	2.27	0.18	0.37	3.85	0.29	2.88	7.03
Peanut Dig/Invertor	4R-30	MFWD 190	20,559	300	15	0.235	2.40	5.37	1.20	0.87	9.86	1.86	6.80	18.53
Peanut Dig/Invertor	4R-38	MFWD 190	20,559	300	15	0.186	1.90	4.24	0.95	0.69	7.79	1.46	5.37	14.63
Peanut Dig/Invertor	6R-38	MFWD 190	29,200	300	15	0.124	1.26	2.82	0.63	0.46	5.19	1.39	3.57	10.16
Peanut Dump Cart	6-Row	MFWD 190	25,652	300	20	0.310	3.16	7.06	0.46	1.15	11.84	2.63	8.94	23.42
Peanut Harvester	4R-30	MFWD 225	94,566	300	20	1.176	12.01	31.74	6.30	5.19	55.25	35.35	40.14	130.74
Peanut Harvester	4R-38	MFWD 225	94,566	300	20	0.934	9.54	25.21	5.00	4.12	43.89	28.69	31.88	104.47
Peanut Harvester	6R-38	MFWD 225	110,104	300	20	0.625	6.38	16.86	3.32	2.75	29.32	22.34	21.32	72.99
Peanut Lifter	6-Row	MFWD 225	4,178	300	20	0.100	1.02	2.69	0.08	0.44	4.24	0.13	3.41	7.79
Peanut Plt&Pre Fold	12R-38	MFWD 190	54,072	150	8	0.080	1.40	1.83	1.63	0.29	5.17	3.93	2.31	11.42
Peanut Plt&Pre Rigid	8R-30	MFWD 190	30,938	150	8	0.152	2.67	3.48	1.77	0.56	8.50	4.27	4.40	17.18
Peanut Plt&Pre Rigid	8R-38	MFWD 190	28,513	150	8	0.120	2.11	2.75	1.29	0.45	6.60	3.11	3.48	13.21
Pipe Spool 160ac	1/4m roll	2WD 130	3,400	15	12	0.003	0.07	0.04	0.00	0.00	0.13	0.08	0.05	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,122	100	15	0.003	0.14	0.05	0.00	0.00	0.21	0.00	0.06	0.28
Plant & Pre-Folding	8R-38	MFWD 170	39,313	150	8	0.080	1.40	1.63	1.18	0.28	4.51	2.85	2.19	9.56
Plant & Pre-Folding	8R-38 2x1	MFWD 170	53,597	150	8	0.053	0.93	1.08	1.07	0.18	3.28	2.59	1.46	7.34
Plant & Pre-Folding	10R-30	MFWD 190	50,846	150	8	0.081	1.42	1.85	1.54	0.30	5.12	3.73	2.34	11.20
Plant & Pre-Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.12	1.45	1.15	0.23	3.98	2.79	1.84	8.62
Plant & Pre-Folding	12R-20	MFWD 190	48,694	150	8	0.101	1.77	2.31	1.85	0.37	6.32	4.47	2.92	13.73
Plant & Pre-Folding	12R-30	MFWD 190	58,054	150	8	0.067	1.18	1.54	1.47	0.25	4.45	3.55	1.95	9.96
Plant & Pre-Folding	12R-38	MFWD 190	54,072	150	8	0.053	0.93	1.21	1.08	0.19	3.43	2.61	1.54	7.59
Plant & Pre-Folding	16R-30	MFWD 190	78,373	150	8	0.050	0.88	1.15	1.49	0.18	3.72	3.60	1.46	8.79
Plant & Pre-Folding	23R-15	MFWD 190	88,933	150	8	0.070	1.23	1.60	2.35	0.26	5.45	5.67	2.03	13.16
Plant & Pre-Folding	24R-15	MFWD 225	90,454	150	8	0.067	1.18	1.82	2.29	0.29	5.60	5.54	2.30	13.45
Plant & Pre-Folding	24R-20	MFWD 190	105,234	150	8	0.050	0.88	1.15	2.00	0.18	4.23	4.83	1.46	10.53
Plant & Pre-Folding	24R-30	MFWD 190	130,763	150	8	0.033	0.59	0.77	1.65	0.12	3.15	4.00	0.97	8.13
Plant & Pre-Folding	31R-15	MFWD 225	112,535	150	8	0.052	0.91	1.41	2.21	0.23	4.78	5.34	1.79	11.91
Plant & Pre-Folding	32R-15	MFWD 225	113,987	150	8	0.050	0.88	1.37	2.17	0.22	4.65	5.23	1.73	11.62
Plant & Pre-Folding	32R-30	MFWD 225	196,226	150	8	0.025	0.44	0.68	1.86	0.11	3.10	4.50	0.86	8.48
Plant & Pre-Folding	36R-20	MFWD 225	143,204	150	8	0.033	0.59	0.91	1.81	0.14	3.47	4.38	1.15	9.01
Plant & Pre-Folding	36R-30	MFWD 225	210,869	150	8	0.022	0.39	0.60	1.78	0.09	2.88	4.30	0.76	7.96
Plant & Pre-Folding	8R-30/40	MFWD 225	68,328	150	8	0.080	1.40	2.16	2.05	0.35	5.98	4.96	2.73	13.68
Plant & Pre-Rigid	4R-30	2WD 130	21,157	150	8	0.203	3.55	3.16	1.61	0.49	8.83	3.88	3.71	16.43
Plant & Pre-Rigid	4R-38	2WD 130	21,497	150	8	0.159	2.80	2.49	1.28	0.39	6.97	3.11	2.92	13.00
Plant & Pre-Rigid	6R-30	MFWD 150	27,284	150	8	0.135	2.37	2.43	1.38	0.42	6.62	3.34	3.21	13.18

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
Plant & Pre-Rigid	6R-38	MFWD 150	25,997	150	8	0.106	1.87	1.92	1.04	0.33	5.17	2.51	2.53	10.22
Plant & Pre-Rigid	8R-30	MFWD 170	30,938	150	8	0.101	1.77	2.07	1.17	0.35	5.38	2.84	2.78	11.01
Plant & Pre-Rigid	8R-38	MFWD 170	28,513	150	8	0.080	1.40	1.63	0.85	0.28	4.18	2.07	2.19	8.45
Plant & Pre-Rigid	10R-30	MFWD 190	31,212	150	8	0.081	1.42	1.85	0.95	0.30	4.52	2.29	2.34	9.16
Plant & Pre-Rigid	11R-15	MFWD 170	35,940	150	8	0.148	2.59	3.02	1.99	0.52	8.14	4.82	4.06	17.02
Plant & Pre-Rigid	11R-20	MFWD 170	32,617	150	8	0.110	1.94	2.26	1.35	0.39	5.95	3.27	3.04	12.27
Plant & Pre-Rigid	12R-20	MFWD 190	45,438	150	8	0.101	1.77	2.31	1.73	0.37	6.20	4.17	2.92	13.30
Plant & Pre-Rigid	12R-30	MFWD 190	47,699	150	8	0.067	1.18	1.54	1.21	0.25	4.19	2.92	1.95	9.06
Plant & Pre-Rigid	13R-18/20	MFWD 225	41,077	150	8	0.093	1.63	2.52	1.44	0.41	6.01	3.47	3.19	12.69
Plant & Pre-Rigid	13R-36/40	MFWD 225	36,197	150	8	0.049	0.86	1.33	0.67	0.21	3.09	1.62	1.68	6.40
Plant & Pre-Rigid	15R-15	MFWD 190	44,990	150	8	0.108	1.90	2.47	1.83	0.40	6.61	4.42	3.13	14.16
Plant & Pre-Rigid	15R-20	MFWD 190	44,846	150	8	0.081	1.42	1.85	1.36	0.30	4.94	3.29	2.34	10.58
Plant & Pre-Rigid	16R30	MFWD 225	84,022	150	8	0.050	0.88	1.37	1.59	0.22	4.08	3.86	1.73	9.67
Plant & Pre-TwinRow	12R-30/40	MFWD 225	88,140	150	8	0.053	0.93	1.44	1.76	0.23	4.38	4.26	1.82	10.46
Plant - Folding	8R-38	MFWD 170	34,065	150	8	0.074	1.30	1.51	0.95	0.26	4.04	2.29	2.04	8.38
Plant - Folding	8R-38 2x1	MFWD 170	48,350	150	8	0.049	0.86	1.01	0.89	0.17	2.95	2.17	1.35	6.48
Plant - Folding	10R-30	MFWD 190	45,599	150	8	0.075	1.32	1.71	1.28	0.28	4.61	3.11	2.17	9.90
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.04	1.35	0.95	0.22	3.57	2.31	1.71	7.61
Plant - Folding	12R-20	MFWD 190	43,447	150	8	0.094	1.65	2.14	1.53	0.35	5.68	3.70	2.71	12.11
Plant - Folding	12R-30	MFWD 190	52,807	150	8	0.062	1.10	1.43	1.24	0.23	4.01	3.00	1.81	8.83
Plant - Folding	12R-38	MFWD 190	48,350	150	8	0.049	0.86	1.13	0.89	0.18	3.08	2.17	1.43	6.68
Plant - Folding	16R-30	MFWD 190	72,651	150	8	0.047	0.82	1.07	1.28	0.17	3.36	3.10	1.35	7.81
Plant - Folding	23R-15	MFWD 190	83,686	150	8	0.065	1.14	1.49	2.05	0.24	4.93	4.96	1.88	11.78
Plant - Folding	24R-15	MFWD 225	85,207	150	8	0.062	1.10	1.69	2.00	0.27	5.08	4.84	2.14	12.07
Plant - Folding	24R-20	MFWD 190	99,511	150	8	0.047	0.82	1.07	1.75	0.17	3.83	4.24	1.35	9.44
Plant - Folding	24R-30	MFWD 190	122,968	150	8	0.031	0.55	0.71	1.44	0.11	2.83	3.49	0.90	7.23
Plant - Folding	31R-15	MFWD 225	104,740	150	8	0.048	0.85	1.31	1.91	0.21	4.29	4.62	1.66	10.58
Plant - Folding	32R-15	MFWD 225	106,193	150	8	0.047	0.82	1.27	1.87	0.20	4.18	4.53	1.60	10.32
Plant - Folding	32R-30	MFWD 225	188,431	150	8	0.023	0.41	0.63	1.66	0.10	2.81	4.02	0.80	7.64
Plant - Folding	36R-20	MFWD 225	135,410	150	8	0.031	0.55	0.84	1.59	0.13	3.13	3.85	1.07	8.05
Plant - Folding	36R-30	MFWD 225	203,074	150	8	0.020	0.36	0.56	1.59	0.09	2.62	3.85	0.71	7.18
Plant - Rigid	4R-30	2WD 130	15,910	150	8	0.188	3.30	2.93	1.12	0.46	7.82	2.71	3.44	13.99
Plant - Rigid	4R-38	2WD 130	16,250	150	8	0.148	2.60	2.31	0.90	0.36	6.18	2.18	2.71	11.08
Plant - Rigid	6R-30	MFWD 150	22,037	150	8	0.125	2.20	2.26	1.03	0.39	5.90	2.50	2.98	11.39
Plant - Rigid	6R-38	MFWD 150	20,750	150	8	0.099	1.73	1.78	0.77	0.31	4.61	1.86	2.35	8.83
Plant - Rigid	8R-30	MFWD 170	25,691	150	8	0.094	1.65	1.92	0.90	0.33	4.81	2.19	2.58	9.59
Plant - Rigid	8R-38	MFWD 170	23,266	150	8	0.074	1.30	1.51	0.65	0.26	3.73	1.56	2.04	7.35
Plant - Rigid	10R-30	MFWD 190	25,965	150	8	0.075	1.32	1.71	0.73	0.28	4.05	1.77	2.17	8.00
Plant - Rigid	11R-15	MFWD 170	30,693	150	8	0.137	2.41	2.80	1.58	0.48	7.28	3.82	3.77	14.88
Plant - Rigid	11R-20	MFWD 170	27,370	150	8	0.103	1.80	2.10	1.05	0.36	5.32	2.55	2.82	10.70
Plant - Rigid	12R-20	MFWD 190	40,191	150	8	0.094	1.65	2.14	1.42	0.35	5.57	3.43	2.71	11.72
Plant - Rigid	12R-30	MFWD 190	42,452	150	8	0.062	1.10	1.43	1.00	0.23	3.76	2.41	1.81	7.99
Plant - Rigid	13R-18/20	MFWD 225	35,355	150	8	0.086	1.52	2.34	1.15	0.38	5.40	2.78	2.96	11.14
Plant - Rigid	13R-36/40	MFWD 225	30,475	150	8	0.045	0.80	1.24	0.52	0.20	2.77	1.26	1.56	5.61
Plant - Rigid	15R-15	2WD 150	39,268	150	8	0.094	1.65	1.69	1.38	0.25	4.99	3.35	1.90	10.25
Plant - Rigid	15R-20	MFWD 190	39,124	150	8	0.075	1.32	1.71	1.10	0.28	4.42	2.67	2.17	9.27
Plant - Rigid	16R-30	MFWD 225	78,299	150	8	0.047	0.82	1.27	1.38	0.20	3.69	3.34	1.60	8.63
Plant - TwinRow	12R-30/40	MFWD 225	82,418	150	8	0.049	0.86	1.33	1.53	0.21	3.96	3.70	1.69	9.35
Plant - TwinRow	8R-30/40	MFWD 225	63,081	150	8	0.074	1.30	2.01	1.76	0.32	5.40	4.25	2.54	12.20
Rice Grain Cart	500 Bu	MFWD 190	14,819	200	12	0.057	0.58	1.30	0.22	0.21	2.32	0.51	1.64	4.48
Rice Grain Cart	700 Bu	MFWD 190	21,566	200	12	0.063	0.64	1.44	0.37	0.23	2.70	0.82	1.83	5.35
Rip/Bed/Till Fold	8R-38	MFWD 190	24,184	300	20	0.073	0.74	1.66	0.08	0.27	2.77	0.58	2.10	5.46
Rip/Bed/Till Fold	12R-30	MFWD 225	35,615	300	20	0.061	0.62	1.66	0.10	0.27	2.67	0.72	2.10	5.50
Rip/Bed/Till Fold	12R-38	MFWD 225	35,615	300	20	0.046	0.47	1.24	0.08	0.20	2.00	0.54	1.57	4.12
Rip/Bed/Till Rigid	4R-30	MFWD 190	11,528	300	20	0.184	1.88	4.21	0.10	0.68	6.89	0.70	5.33	12.93
Rip/Bed/Till Rigid	4R-38	MFWD 190	11,528	300	20	0.146	1.49	3.34	0.08	0.54	5.47	0.56	4.23	10.26
Rip/Bed/Till Rigid	6R-38	MFWD 190	15,978	300	20	0.097	0.99	2.21	0.07	0.36	3.65	0.51	2.80	6.97
Rip/Bed/Till Rigid	8R-30	MFWD 190	20,992	300	20	0.139	1.41	3.16	0.14	0.51	5.25	0.96	4.00	10.22
Rip/Bed/Till Rigid	8R-38	MFWD 190	20,992	300	20	0.073	0.74	1.66	0.07	0.27	2.76	0.50	2.10	5.37
Rip/Bed/Till Rigid	6R-30	MFWD 190	15,978	300	20	0.123	1.25	2.80	0.09	0.45	4.62	0.65	3.55	8.83
Ripper Conditioner	4-Row	MFWD 225	11,470	150	12	0.160	1.64	4.34	0.66	0.70	7.36	1.48	5.48	14.33
Ripper Conditioner	6-Row	MFWD 225	14,430	150	12	0.107	1.09	2.90	0.56	0.47	5.03	1.24	3.66	9.95
Ripper Conditioner	8-Row	MFWD 225	17,205	150	12	0.080	0.82	2.17	0.50	0.35	3.86	1.11	2.75	7.73
Roller	32'-12R30	MFWD 170	15,223	100	12	0.046	0.47	0.95	0.11	0.16	1.71	0.85	1.27	3.84
Roller/Bed Shaper Fl	8R-38	MFWD 190	17,408	160	10	0.074	0.75	1.68	0.32	0.27	3.04	1.06	2.13	6.24
Roller/Bed Shaper Fl	12R-30	MFWD 225	18,923	160	10	0.062	0.63	1.68	0.29	0.27	2.89	0.97	2.13	6.00
Roller/Bed Shaper Fl	12R-38	MFWD 225	21,598	160	10	0.049	0.50	1.33	0.26	0.21	2.31	0.88	1.68	4.88
Roller/Bed Shaper Fl	16R-30	MFWD 225	21,655	160	10	0.046	0.47	1.26	0.25	0.20	2.20	0.83	1.59	4.64
Roller/Bed Shaper Rd	8R-38	MFWD 190	12,910	160	10	0.074	0.75	1.68	0.23	0.27	2.96	0.79	2.13	5.88
Rotary Cutter	7'	MFWD 130	3,661	185	10	0.168	1.71	2.62	0.49	0.46	5.30	0.44	3.45	9.19
Rotary Cutter	12'	2WD 150	8,336	185	10	0.098	1.00	1.76	0.66	0.26	3.69	0.58	1.98	6.27
Rotary Cutter-Flex	15'	MFWD 150	14,337	185	10	0.078	0.80	1.41	0.91	0.24	3.37	0.80	1.86	6.04
Rotary Cutter-Flex	20'	MFWD 150	21,159	185	10	0.058	0.60	1.06	1.01	0.18	2.85	0.89	1.39	5.15
Row Cond & Inc Fold.	26'	MFWD 190	19,209	100	10	0.068	0.95	1.57	0.33	0.25	3.11	1.75	1.98	6.85
Row Cond & Inc Fold.	38'	MFWD 225	22,309	100	10	0.047	0.65	1.27	0.26	0.20	2.39	1.39	1.61	5.40
Row Cond & Inc Rigid	13'	2WD 130	10,279	100	10	0.137	1.91	2.15	0.35	0.33	4.75	1.87	2.52	9.15

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2008 (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							
Row Cond & Inc Rigid	21'	2WD 170	12,957	100	10	0.085	1.18	1.74	0.27	0.24	3.44	1.46	1.91	6.82
Row Cond & Inc Rigid	26'	MFWD 190	14,723	100	10	0.028	0.40	0.65	0.10	0.10	1.27	0.56	0.83	2.67
Row Cond (Harrow)Fld	26'	MFWD 225	13,962	100	10	0.057	0.58	1.54	0.20	0.25	2.58	1.05	1.95	5.60
Row Cond (Harrow)Fld	38'	MFWD 225	16,587	100	10	0.039	0.40	1.06	0.16	0.17	1.79	0.86	1.34	4.00
Row Cond (Harrow)Rdg	13'	2WD 130	5,032	100	10	0.114	1.17	1.79	0.14	0.28	3.38	0.76	2.10	6.25
Row Cond (Harrow)Rdg	21'	2WD 170	7,710	100	10	0.071	0.72	1.44	0.13	0.20	2.51	0.72	1.59	4.83
Row Cond (Harrow)Rdg	26'	MFWD 190	9,476	100	10	0.057	0.58	1.30	0.13	0.21	2.24	0.71	1.65	4.62
Row Cond (Plant)Fld	26'	MFWD 225	13,962	100	10	0.057	0.58	1.54	0.20	0.25	2.58	1.05	1.95	5.60
Row Cond (Plant)Fld	38'	MFWD 225	16,587	100	10	0.053	0.54	1.45	0.22	0.23	2.46	1.17	1.83	5.47
Row Cond (Plant)Rdg	13'	2WD 130	5,032	100	10	0.157	1.60	2.45	0.19	0.38	4.63	1.04	2.87	8.55
Row Cond (Plant)Rdg	21'	2WD 170	7,710	100	10	0.097	0.99	1.98	0.18	0.28	3.44	0.99	2.18	6.61
Row Cond (Plant)Rdg	26'	MFWD 190	9,476	100	10	0.078	0.80	1.79	0.18	0.29	3.07	0.98	2.26	6.32
RT Cult (Early)	8R-30	2WD 170	22,538	200	12	0.103	1.05	2.10	1.11	0.29	4.56	1.43	2.31	8.31
RT Cult (Early)	12R-30	2WD 190	32,545	200	12	0.068	0.70	1.56	1.07	0.23	3.57	1.38	1.78	6.73
RT Cult (Late)	8R-30	2WD 170	22,538	200	12	0.128	1.31	2.62	1.39	0.37	5.71	1.79	2.88	10.39
RT Cult (Late)	12R-30	2WD 190	32,545	200	12	0.085	0.87	1.95	1.34	0.28	4.46	1.72	2.22	8.41
RT Cult + PD (Early)	8R-30	2WD 150	27,785	200	12	0.110	1.52	1.97	1.46	0.29	5.26	1.88	2.22	9.37
RT Cult + PD (Early)	12R-30	2WD 190	37,792	200	12	0.073	1.01	1.67	1.32	0.24	4.26	1.70	1.90	7.87
RT Cult + PD (Late)	8R-30	2WD 170	27,785	200	12	0.137	1.90	2.80	1.83	0.39	6.93	2.35	3.08	12.37
RT Cult + PD (Late)	12R-30	2WD 190	37,792	200	12	0.091	1.27	2.08	1.66	0.30	5.32	2.13	2.37	9.84
Spin Spreader	5 ton	MFWD 190	11,082	100	8	0.042	0.73	0.95	0.26	0.15	2.11	0.65	1.21	3.98
Spray (Band)	27' Fold	MFWD 170	5,247	200	8	0.062	0.86	1.27	0.15	0.22	2.52	0.23	1.71	4.47
Spray (Band)	40' Fold	MFWD 170	5,722	200	8	0.042	0.58	0.86	0.11	0.14	1.71	0.16	1.15	3.04
Spray (Band)	50' Fold	MFWD 170	5,622	200	8	0.033	0.46	0.69	0.08	0.11	1.36	0.13	0.92	2.42
Spray (Band)	53' Fold	MFWD 170	6,666	200	8	0.031	0.44	0.65	0.09	0.11	1.30	0.14	0.87	2.33
Spray (Band)	60' Fold	MFWD 170	7,794	200	8	0.028	0.39	0.57	0.10	0.09	1.16	0.15	0.77	2.09
Spray (Bcast/HB)	13' Rigid	MFWD 150	4,571	200	8	0.130	1.80	2.34	0.27	0.41	4.83	0.41	3.09	8.34
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,378	200	8	0.084	1.17	1.52	0.21	0.26	3.17	0.31	2.00	5.50
Spray (Bcast/HB)	27' Fold	MFWD 170	9,220	200	8	0.062	0.86	1.27	0.27	0.22	2.63	0.40	1.71	4.76
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,245	200	8	0.062	0.86	1.27	0.18	0.22	2.55	0.27	1.71	4.54
Spray (Bcast/HB)	30' Fold	MFWD 170	12,454	200	8	0.056	0.78	1.15	0.32	0.19	2.46	0.49	1.54	4.50
Spray (Bcast/HB)	40' Fold	MFWD 170	12,904	200	8	0.042	0.58	0.86	0.25	0.14	1.85	0.38	1.15	3.39
Spray (Bcast/HB/HD)	27'	MFWD 170	19,559	200	8	0.062	0.86	1.27	0.57	0.22	2.94	0.86	1.71	5.52
Spray (Bcast/HB/HD)	40'	MFWD 170	23,213	200	8	0.042	0.58	0.86	0.46	0.14	2.05	0.68	1.15	3.90
Spray (Broadcast)	27'	MFWD 170	5,247	200	8	0.062	0.86	1.27	0.15	0.22	2.52	0.23	1.71	4.47
Spray (Broadcast)	40'	MFWD 170	5,722	200	8	0.042	0.58	0.86	0.11	0.14	1.71	0.16	1.15	3.04
Spray (Broadcast)	50'	MFWD 170	5,622	200	8	0.033	0.46	0.69	0.08	0.11	1.36	0.13	0.92	2.42
Spray (Broadcast)	53'	MFWD 170	6,666	200	8	0.031	0.44	0.65	0.09	0.11	1.30	0.14	0.87	2.33
Spray (Broadcast)	60'	MFWD 170	7,794	200	8	0.028	0.39	0.57	0.10	0.09	1.16	0.15	0.77	2.09
Spray (Direct/Hood)	8R-30	MFWD 170	13,842	200	8	0.084	1.17	1.72	0.54	0.29	3.74	0.82	2.31	6.88
Spray (Direct/Hood)	8R-38	MFWD 170	14,981	200	8	0.066	0.92	1.36	0.46	0.23	2.99	0.70	1.83	5.53
Spray (Direct/Hood)	12R-30	MFWD 170	17,570	200	8	0.056	0.78	1.15	0.46	0.19	2.59	0.69	1.54	4.83
Spray (Direct/Hood)	12R-38	MFWD 170	18,014	200	8	0.044	0.61	0.90	0.37	0.15	2.05	0.56	1.22	3.84
Spray (Direct/Layby)	8R-30	MFWD 170	9,000	200	8	0.084	1.17	1.72	0.35	0.29	3.55	0.53	2.31	6.40
Spray (Direct/Layby)	8R-38	MFWD 170	10,283	200	8	0.066	0.92	1.36	0.32	0.23	2.85	0.48	1.83	5.16
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	17,637	200	8	0.044	0.61	0.90	0.36	0.15	2.05	0.55	1.22	3.82
Spray (Direct/Layby)	10R-30	MFWD 170	10,371	200	8	0.067	0.93	1.38	0.32	0.23	2.88	0.49	1.85	5.23
Spray (Direct/Layby)	12R-30	MFWD 170	11,554	200	8	0.056	0.78	1.15	0.30	0.19	2.43	0.45	1.54	4.44
Spray (Direct/Layby)	12R-38	MFWD 170	17,637	200	8	0.044	0.61	0.90	0.36	0.15	2.05	0.55	1.22	3.82
Spray (Direct/Layby)	16R-20	MFWD 170	9,031	200	8	0.063	0.87	1.29	0.26	0.22	2.66	0.40	1.73	4.80
Spray (Spot)	27'	MFWD 170	5,247	200	8	0.062	0.86	1.27	0.15	0.22	2.52	0.23	1.71	4.47
Spray (Spot)	40'	MFWD 170	5,722	200	8	0.042	0.58	0.86	0.11	0.14	1.71	0.16	1.15	3.04
Spray (Spot)	50'	MFWD 170	5,622	200	8	0.033	0.46	0.69	0.08	0.11	1.36	0.13	0.92	2.42
Spray (Spot)	53'	MFWD 170	6,666	200	8	0.031	0.44	0.65	0.09	0.11	1.30	0.14	0.87	2.33
Spray (Spot)	60'	MFWD 170	7,794	200	8	0.028	0.39	0.57	0.10	0.09	1.16	0.15	0.77	2.09
Stalk Shredder	14'	MFWD 150	10,534	200	10	0.117	1.20	2.12	1.08	0.37	4.78	0.82	2.79	8.40
Stalk Shredder	20'	MFWD 150	24,437	200	10	0.082	0.84	1.48	1.76	0.26	4.35	1.33	1.95	7.64
Stalk Shredder-Flail	12'	MFWD 150	12,844	200	10	0.137	1.40	2.47	1.54	0.43	5.85	1.16	3.26	10.29
Stalk Shredder-Flail	15'	MFWD 150	14,841	200	10	0.110	1.12	1.97	1.42	0.34	4.87	1.07	2.61	8.57
Stalk Shredder-Flail	18'	MFWD 150	18,870	200	10	0.091	0.93	1.64	1.51	0.29	4.38	1.14	2.17	7.70
Stalk Shredder-Flail	20'	MFWD 150	19,244	200	10	0.082	0.84	1.48	1.38	0.26	3.97	1.04	1.95	6.98
Stalk Shredder-Flail	25'	MFWD 150	22,890	200	10	0.066	0.67	1.18	1.32	0.20	3.39	0.99	1.56	5.95
Subsoiler	3 shank	MFWD 190	4,200	100	15	0.204	2.08	4.65	0.28	0.76	7.79	0.94	5.89	14.62
Subsoiler	4 shank	MFWD 225	5,519	100	15	0.153	1.56	4.14	0.28	0.67	6.67	0.93	5.24	12.84
Subsoiler	5 shank	MFWD 225	6,342	100	15	0.122	1.24	3.30	0.25	0.53	5.34	0.85	4.17	10.37
Subsoiler low-till	4 shank	MFWD 225	8,969	100	15	0.153	1.56	4.14	0.45	0.67	6.85	1.51	5.24	13.60
Subsoiler low-till	6 shank	MFWD 225	12,263	100	15	0.102	1.04	2.75	0.41	0.45	4.66	1.37	3.48	9.53
Subsoiler low-till	8 shank	MFWD 225	16,124	100	15	0.076	0.78	2.06	0.41	0.33	3.59	1.35	2.61	7.56
TerraTill Bed w/roll	4R-30	MFWD 225	11,755	150	12	0.204	2.08	5.51	0.86	0.90	9.36	1.93	6.97	18.27
TerraTill Bed w/roll	4R-38	MFWD 225	11,755	150	12	0.160	1.64	4.34	0.68	0.70	7.37	1.52	5.48	14.38
TerraTill Bed w/roll	6R-30	MFWD 225	15,310	150	12	0.136	1.39	3.67	0.75	0.60	6.42	1.67	4.64	12.74
TerraTill Bed w/roll	6R-38	MFWD 225	15,310	150	12	0.107	1.09	2.90	0.59	0.47	5.06	1.32	3.66	10.06

Notes:
Labor: Includes labor from Power unit plus additional labor from the implement.
Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2008

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Gem 25 WG	oz	3.41
Crop Oil Conc.(Pet.)	pt	0.80	Headline	oz	1.88
Crop Oil Conc.(Veg.)	pt	2.46	Headline SBR Copak	oz	1.55
Drift/Defoamer	pt	5.01	Manzate 75 DF	lb	2.61
Spreader Sticker	pt	3.18	Manzate Flowable	pt	1.77
Surfactant	pt	1.55	Moncut 70 DF	lb	25.09
CLEANING			Moncut SC	pt	13.13
Cleaning Peanuts	ton	18.00	Optimizer LIFT	1.1gal	91.00
CROP CONSULTANT			Phorate	lb	2.28
Rice Consultant	acre	7.00	Prevail	lb	11.53
CROP INSURANCE			Quadris	oz	1.97
Insurance - Peanuts	acre	13.00	Quilt	pt	15.06
CUSTOM FERTILIZE			Ridomil Gold PC GR	lb	2.04
App Fert by Air	cwt	5.00	Rovral 4F	pt	19.93
App Fert by Air(Min)	appl	5.00	Stiletto	oz	0.54
Custom Apply Fert	acre	5.00	Stratego	pt	18.52
CUSTOM LIME			Terrachlor Flowable	pt	4.74
Lime (Spread)	ton	40.00	Terraclor 2EC	pt	1.91
CUSTOM SPRAY			Terraclor Super X EC	pt	3.89
App by Air (1 gal)	appl	2.50	Terraclor Super X G	lb	2.39
App by Air (2 gal)	appl	3.00	Tilt 3.6 EC	oz	2.62
App by Air (3 gal)	appl	3.50	Uniform	oz	3.07
App by Air (5 gal)	appl	4.50	Vitavax 200	oz	0.49
App by Air (10 gal)	appl	6.50	Vitavax RTU-Thiram	oz	0.35
Custom Apply	acre	5.00	Vitavax T-L	oz	0.29
Custom Terragator	acre	5.00	GINNING		
DRYING			Gin & Haul	lb	0.09
Dry Corn	bu	0.19	GROWTH REGULATORS		
Dry Grain Sorghum	cwt	0.25	Early Harvest PGR	oz	1.55
Dry Peanuts	ton	24.00	First Pick	pt	3.09
Dry Rice	bu	0.40	Mepex	oz	0.30
ERADICATION FEE			Mepex Gin Out	oz	0.46
Eradication Fee	acre	5.50	Mepichlor 4.2% Liq	oz	0.39
Eradication Zone 1	acre	5.50	Mepiquat Chloride	oz	0.47
Eradication Zone 1A	acre	5.50	Mepiquat Extra	oz	0.63
Eradication Zone 1B	acre	5.50	Pentia	pt	8.98
Eradication Zone 2	acre	6.00	PGR IV	oz	1.64
Eradication Zone 3	acre	12.00	PGR Plus	oz	4.95
Eradication Zone 4	acre	10.50	Pix Plus	oz	0.56
FERTILIZERS			Pix Ultra	oz	0.47
Amm Nitrate (34% N)	cwt	16.00	Stance	pt	24.88
Amm Sulfate (21% N)	cwt	12.00	SuperBoll	pt	4.23
Anhy Ammonia (82% N)	cwt	26.85	HARVEST AIDS		
Boron 15%	lb	0.40	Accelerate	pt	2.76
Boron Plus	pt	3.62	Aim 2EC	oz	5.82
DAP	cwt	16.00	Ammonium Sulfate	lb	0.12
Fert 10-34-0	cwt	16.00	CottonQuik	pt	3.59
Fert 11-37-0	cwt	17.00	Def 6	pt	7.14
Fert 41-0-0-4	cwt	21.25	Def/Folex	pt	7.15
Phosphorus(46% P2O5)	cwt	14.00	Defol 3	gal	3.04
Potash (60% K2O)	cwt	13.00	Defol 5	gal	3.12
Sulfur 90%	lb	0.20	Defol 6	gal	4.80
Sulfur Plus	pt	1.24	Dropp 50 WP	lb	44.00
UAN (32% N)	cwt	12.00	Dropp SC	oz	2.67
UAN + Sulfur (28% N)	cwt	12.00	ET	pt	44.13
Urea, Solid (46% N)	cwt	17.00	Ethephon 6E	pt	5.22
Zinc Sulfate 31%	lb	0.65	Finish 6	pt	9.40
FUNGICIDES			Folex 6EC	pt	7.16
Abound	pt	31.49	Freefall SC	oz	2.32
Apron Maxx RTA	oz	0.80	Ginstar EC	pt	27.59
Apron XL	oz	5.78	Gramoxone Inteon	oz	0.23
Apron XL LS	oz	7.27	Gramoxone Max	pt	5.09
Bravo Weather Stick	pt	5.57	Harvade 5F	oz	0.60
Captan 50 WP	lb	3.41	Leafless	pt	18.56
Cruiser 5FS	oz	17.38	Prep	pt	5.44
Dithane F-45	qt	3.63	Shed-a-leaf	gal	3.00
Dithane Rainshield	lb	2.46	Sodium Chlorate 3L	gal	3.04
Folicur 3.6	oz	2.19			(continued)
Fungicide	lb	2.30			

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2008 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Sodium Chlorate 5L	gal	3.12	Direx 80 DF	lb	3.89
Solium Chlorate 6L	gal	4.80	Diuron 4L	pt	2.22
TDZ SC	oz	2.07	Diuron 80 DF	lb	3.15
Thidiazuron 4lb	oz	2.43	Diuron 80%	lb	3.15
Thidiazuron 4SC	oz	2.66	Domain	lb	12.75
Tribufos 6lb	pt	7.15	DSMA 4	pt	0.87
HAULING			Dual II Magnum	pt	13.43
Haul Corn	bu	0.20	Dual Magnum	pt	12.64
Haul Cotton	lb	0.02	Duet	pt	3.54
Haul Peanuts	ton	14.50	Envoke	oz	75.62
Haul Rice	bu	0.22	Evik DF 80W	lb	6.78
Haul Sorghum	bu	0.20	Exceed	oz	10.71
Haul Soybeans	bu	0.20	Expert	pt	3.65
Haul Wheat	bu	0.20	Facet 75DF	lb	50.75
HERBICIDES			First Rate	oz	27.04
2,4-D Amine 4	pt	1.72	Flexstar HL	pt	12.88
2,4-D LV 4Ester	pt	1.93	FloMet 4L	pt	4.82
AAtrex 4L	pt	1.57	Fluometuron 4lb	pt	4.86
AAtrex NINE-O	lb	2.74	Frontier 6.0	oz	0.63
Accent Gold	oz	7.14	Fultime	pt	3.75
Accent SP	oz	31.60	Fusilade DX	oz	1.16
Aim 2EC	oz	5.82	Fusion	pt	19.84
Aim DF	oz	8.78	Glyfos	pt	2.26
Arrosolo	qt	7.50	Glyfos Xtra	pt	2.35
Arrow 2EC	pt	15.00	Glyphomax	pt	3.49
Assure II	oz	1.04	Glyphosate Plus 4L	pt	2.35
Atrazine 4L	pt	1.17	Glystar Plus	pt	2.35
Atrazine 90DF	lb	2.10	Goal 2XL	pt	10.54
Axiom 68DF	lb	22.02	Gramoxone Inteon	oz	0.23
Backdraft SL	pt	2.34	Gramoxone Max	pt	5.09
Banvel	pt	9.51	Grandstand R	qt	21.53
Basagran	pt	10.48	Guardsman Max	pt	5.50
Basis Gold	lb	18.87	Harmony Extra XP	oz	14.83
Beacon 75% WSP	oz	27.44	Hoelon 3EC	pt	9.71
Beyond	oz	4.10	Ignite 280	pt	6.32
Bicep II Magnum	qt	9.41	Karmex DF	lb	4.35
Blazer Ultra	pt	7.81	Lariat	qt	5.33
Bolero 8EC	pt	5.96	Lasso 4EC	qt	6.06
Boundary 7.5	pt	10.13	Lasso MT	qt	5.94
Buccaneer	pt	1.97	Layby Pro	qt	9.04
Buctril 4EC	pt	15.51	Lexar	pt	4.90
Butoxone 175(2,4-DB)	pt	2.70	Liberty	pt	8.76
Butoxone 200(2,4-DB)	pt	4.05	Lightning	oz	12.18
Butyrac 175 (2,4-DB)	pt	2.64	Linex 4L	pt	6.93
Butyrac 200 (2,4-DB)	pt	4.15	Londax 60DF	oz	11.25
Cadre DG Eco-Pak	oz	13.75	Lorox 50DF	lb	15.75
Callisto 4SC	oz	4.28	Me-Too-Lachlor	pt	5.36
Canopy 75%	oz	2.55	MSMA 6.6	pt	2.01
Canopy EX	oz	5.50	MSMA6 + Surfactant	pt	1.98
Canopy XL	oz	1.93	Newpath 2SL	oz	3.60
Caparol 4L	pt	3.99	Ordram 15-GM	lb	1.38
Celebrity Plus	lb	87.70	Ordram 8-E	pt	7.60
Clarity	pt	11.60	Osprey	oz	3.44
Classic	oz	13.26	Outlook	pt	18.47
Clearpath	lb	7.08	Parrlay	pt	8.13
Clincher SF	oz	1.68	Pendimax 3.3	pt	2.84
Cobra 2EC	oz	1.19	Permit 75 DF	oz	17.49
Command 3ME	pt	12.75	Poast 1.53	pt	8.46
Conclude XACT	pt	9.59	Poast Plus	pt	6.37
Cornerstone	pt	1.38	Prefix	pt	26.36
Cornerstone Plus	pt	1.44	Propimax EC	pt	37.07
Cotoran 4L	pt	4.90	Prowl 3.3 EC	pt	3.10
Cotoran DF	lb	8.05	Prowl H20	pt	3.80
Cotton Pro	pt	3.32	Pursuit DG	oz	11.34
Credit Extra	pt	2.34	Pursuit Plus EC	pt	6.33
Crossbow	pt	7.18	Python WDG	oz	9.35
Direx 4L	pt	2.29			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2008 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Raptor	oz	4.13	Couraze 2F	pt	47.67
Rascal Plus	pt	1.38	Curacron 8E	pt	9.66
Reflex 2LC	pt	12.55	Decis 1.5EC	oz	2.84
Regiment 80WP	oz	35.00	Declare	pt	3.67
Remedy	pt	12.17	Delta Gold	pt	40.50
Resource .86EC	pt	21.24	Denim 0.16 EC	pt	26.81
Ricestar	pt	15.45	Di-Syston 15G	lb	3.35
Ricestar HT	pt	17.55	Di-Syston 8	pt	13.10
Rifel	pt	10.38	Diamond .83EC	pt	16.75
Roundup Original	pt	4.56	Dimethoate 4E	pt	4.69
Roundup Original Max	oz	0.27	Dimilin 2L	oz	1.64
Roundup Ultra MAX	pt	5.97	Dipel DF	lb	10.56
Roundup Ultra Dry	lb	6.14	Dipel ES	pt	4.04
Roundup WeatherMax	oz	0.35	Discipline 2 EC	oz	1.90
Scepter 70 DG	oz	2.97	Force 3G	lb	4.54
Select 2EC	oz	1.35	Furadan 4F	pt	9.13
Sencor 4F	pt	10.13	Gaucho 480	oz	7.30
Sencor DF	lb	14.81	Incidental Pest Trt	acre	12.00
Sequence	pt	6.38	Intrepid 2F	oz	1.93
Stalwart	pt	6.88	Intruder 70WSP	oz	8.00
Stam 4E	qt	5.12	Karate EC	oz	1.70
Stam 80 EDF	lb	4.81	Karate Z	oz	3.10
Stam M4	qt	5.98	Lannate LV	pt	7.10
Staple	oz	18.97	Lannate SP	oz	1.41
Staple LX	oz	6.83	Larvin 3.2	oz	0.48
Steadfast	oz	22.36	Leverage 2.7	oz	3.00
Storm	pt	9.50	Lorsban 15G	lb	1.58
Strongarm	oz	43.04	Lorsban 4E	pt	4.40
Superwham	qt	6.56	Malathion 5E	pt	3.18
Suprend	lb	10.17	Malathion 8E	pt	4.68
Surpass 20G	lb	2.36	Malathion ULV	pt	4.93
Surpass EC	qt	19.06	Methyl Parathion	pt	4.26
Synchrony XP	oz	6.08	Monitor 4	pt	13.16
Touchdown 4 IQ	pt	3.33	Mustang Max	oz	1.63
Touchdown HiTech	qt	8.06	Orthene 90S	lb	8.85
Touchdown Total	qt	8.68	Orthene 97	lb	11.81
Treflan 4L	pt	2.75	Penncap-M	pt	11.37
Treflan HFP	pt	2.35	Pounce 25WP	lb	10.48
Treflan TR-10	lb	0.79	Prolex	oz	3.48
Trifluralin 4EC	pt	2.23	Provado 1.6F	oz	3.42
Valor SX	oz	4.32	Sevin 80S	lb	5.90
Whip 360	pt	22.99	Sevin XLR Plus	qt	8.14
Zorial Rapid 80DF	lb	13.95	Spintor 2SC	oz	4.71
INOCULANT			Steward	pt	22.28
Innoculant (Liquid)	pt	10.34	Temik 15G Grit	lb	3.20
Nitragin S	oz	0.25	Temik 15G Gypsum	lb	3.33
So-Fast Sterile Peat	oz	0.80	Thimet 20-G Lock N L	lb	2.67
INSECT SCOUTING			Thionex 3 EC	pt	3.47
Insect Scouting	acre	7.00	Thionex 50W	lb	7.99
INSECTICIDES			Tracer	oz	6.38
Acephate 90%	lb	7.68	Trimax	oz	4.13
Acephate 90SP	lb	6.50	Vydate C-LV	oz	0.56
Admire 2	oz	4.78	Warrior ZT	oz	2.16
Ammo 2.5 EC	oz	0.65	Zephyr	oz	4.48
Asana .66 XL	oz	0.71	IRRIGATION SUPPLIES		
Aztec 2.1% G	lb	2.32	Roll-Out Pipe	ft	0.20
Baythroid 2	oz	2.88	SEED/PLANTS		
Bidrin 8L	oz	0.84	Corn Seed Bt	thous	1.96
Brigade EC	pt	28.25	Corn Seed BtRR	thous	2.01
Brigade WSB	lb	19.89	Corn Seed Conv.	thous	1.55
Capture 2EC	oz	2.59	Corn Seed RR	thous	1.87
Carbine	oz	4.10	Cotton Seed BtRR	thous	0.46
Centric 40WG	oz	5.04	Cotton Seed BtRRF	thous	0.50
Comite	pt	7.06	Cotton Seed Conv.	thous	0.39
Comite ll	pt	8.46	Cotton Seed Liberty	thous	0.62
Confirm 2F	oz	1.48	Cotton Seed RR	thous	0.36
Counter 15G	lb	2.21	Cotton Seed RRF	thous	0.39
Counter CR	lb	2.86	Peanut Seed	lb	0.57
Couraze 1.6F	pt	33.33			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2008 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Rice Clearfield 161	lb	0.50	Survey & Mark Levees	acre	4.00
Rice Clearfield Hyb	lb	3.10	Survey & Mark Levees	acre	3.50
Rice Seed (Levees)	lb	0.26	TECHNOLOGY FEE		
Rice Seed CF(Levees)	lb	0.50	BG Cot Tech Fee	thous	0.28
Rice Seed CFH(Levee)	lb	3.10	BG Cot Tech Fee	cap/ac	19.50
Rice Seed Conv.	lb	0.26	BG II/RR Tech Fee	cap/ac	56.00
Sorghum Concept	lb	1.40	BG ll/RRF Tech Fee	thous	1.38
Sorghum Hybrid Sudax	lb	0.56	BG ll/RRF Tech Fee	cap/ac	64.00
Sorghum NonConcept	lb	1.18	BG/RR Cot Tech Fee	thous	1.09
Soybean Seed Private	lb	0.38	BG/RR Cot Tech Fee	cap/ac	49.00
Soybean Seed RR	lb	0.66	RR Cotton Tech Fee	thous	0.62
Soybean Seed Stack	lb	0.63	RR Cotton Tech Fee	cap/ac	29.00
Wheat Seed Private	lb	0.27	RRF Cotton Tech Fee	thous	0.88
SURVEY & MARK LEVEES			RRF Cotton Tech Fee	cap/ac	40.00

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2008

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.33
Electricity	kWh	0.14
Gasoline	gal	2.73
LP Gas	gal	1.88
INTEREST RATES		
Short-term	%	8.75
Intermediate-term	%	8.50

Appendix Table 6. Labor types, wage rates and unallocated labor multipliers for crop enterprises, Mississippi, 2008

Item name	
LABOR TYPES	WAGE RATE ($/HR)
OPERATOR LABOR	10.21
IRRIGATE LABOR	7.31
HAND LABOR	7.31
HAND. & STOR. LABOR	7.31
RICE MGT. LABOR	7.31
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, 2008

	Unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '08	4.06	-0.2529	3.81	2.09	3.81
Cotton Lint	lb	Dec '08	0.739	-0.0232	0.716	0.524	0.716
Cotton Seed	lb						0.045[f]
Grain Sorghum	bu				3.32	2.01	3.32
Peanuts	ton				475.00	355.00	475.00
Rice	bu	Sep '08	5.52	-0.3220	5.20	2.97	5.20
Soybeans	bu	Nov '08	9.59	-0.2510	9.34	5.14	9.34
Wheat	bu	Jul '08	6.60	-0.3616	6.24	2.62	6.24

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

[b] The basis is computed by subtracting the 2001-2007 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] Forward contract price for cotton, soybeans, corn, wheat, and rice is the futures contract price plus the basis.
Forward contract price for grain sorghum is the average contract bids reported in October in the Daily Grain Report, Mississippi Department of Ag-USDA Market News. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

[d] Average Mississippi loan rate for the 2007 crop year for soybeans, corn, grain sorghum, and wheat. 2007 Mississippi base loan rate for Delta area for cotton. 2007 Mississippi loan rate for long grain rice. 2007 national average loan rate for peanuts.

[e] Price used in the 2008 MAFES Planning Budgets.

[f] Cottonseed price is the marketing year average price averaged over the years 2002-2006, Agricultural Prices Summary, USDA.

Appendix Table 8. Estimated costs for field operations, per acre
Contour levee rice flood irrigation system
80-acre system, 33 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.37		0.02	0.39		0.39
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.33	0.08	0.16		0.02	0.59	0.56	1.15
Survey & Mark Levees	acre	4.00					0.18	4.18		4.18
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.87	0.20	0.44		0.07	1.58	1.49	3.07
Butt Levees										
Blade-Box	6'-7'		0.31	0.06	0.20		0.02	0.59	0.38	0.97
IRRIGATE LABOR	hour				0.55		0.02	0.57		0.57
Install Gates										
IRRIGATE LABOR	hour				2.19		0.10	2.29		2.29
Apply Water										
IRRIGATE LABOR	hour				5.48		0.24	5.72		5.72
Apply Water										
IRRIGATE LABOR	hour				5.48		0.20	5.68		5.68
Apply Water										
IRRIGATE LABOR	hour				5.48		0.16	5.64		5.64
Apply Water										
IRRIGATE LABOR	hour				5.48		0.12	5.60		5.60
Remove Gates										
IRRIGATE LABOR	hour				0.73		0.01	0.74		0.74
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.60	0.13	0.34		0.02	1.09	0.93	2.02
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.22	0.04	0.13		0.01	0.40	0.34	0.74
Land Forming ($75)	each								7.33	7.33
Levee Gates	each								0.47	0.47
Well & Pump, Flood	each			4.05			0.15	4.20	16.49	20.69
Engine, Rice CL, 75	each								13.21	13.21
May Irrigation	ac-in		11.39	0.85			0.54	12.78		12.78
June Irrigation	ac-in		17.08	1.28			0.67	19.03		19.03
July Irrigation	ac-in		17.08	1.28			0.54	18.90		18.90
August Irrigation	ac-in		17.08	1.28			0.40	18.76		18.76
TOTALS		4.00	64.96	9.25	27.03	0.00	3.49	108.73	41.20	149.93

Note: Cost of production estimates are based on 2007 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
Straight levee rice flood irrigation system
80-acre system, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.37		0.02	0.39		0.39
Survey & Mark Levees	acre	2.00					0.09	2.09		2.09
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.66	0.15	0.33		0.05	1.19	1.12	2.31
Butt Levees										
Blade-Box	6'-7'		0.31	0.06	0.20		0.02	0.59	0.38	0.97
IRRIGATE LABOR	hour				0.55		0.02	0.57		0.57
Install Gates										
IRRIGATE LABOR	hour				1.10		0.05	1.15		1.15
Apply Water										
IRRIGATE LABOR	hour				3.66		0.16	3.82		3.82
Apply Water										
IRRIGATE LABOR	hour				3.66		0.13	3.79		3.79
Apply Water										
IRRIGATE LABOR	hour				3.66		0.11	3.77		3.77
Apply Water										
IRRIGATE LABOR	hour				3.66		0.08	3.74		3.74
Remove Gates										
IRRIGATE LABOR	hour				0.73		0.01	0.74		0.74
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.45	0.10	0.26		0.01	0.82	0.70	1.52
Land Forming ($300)	each								29.31	29.31
Levee Gates	each								0.47	0.47
Well & Pump, Flood	each			4.05			0.15	4.20	16.49	20.69
Engine, Rice SL, 75	each								13.21	13.21
May Irrigation	ac-in		11.39	1.04			0.54	12.97		12.97
June Irrigation	ac-in		13.29	1.22			0.53	15.04		15.04
July Irrigation	ac-in		13.29	1.22			0.42	14.93		14.93
August Irrigation	ac-in		13.29	1.22			0.32	14.83		14.83
TOTALS		2.00	52.68	9.06	18.18	0.00	2.71	84.63	61.68	146.31

Note: Cost of production estimates are based on 2007 input prices.

Appendix Table 10. Estimated costs for field operations, per acre
Straight levee rice multi inlet flood irrigation system
80-acre system, 23 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.37		0.02	0.39		0.39
Survey & Mark Levees	acre	2.00					0.09	2.09		2.09
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.66	0.15	0.33		0.05	1.19	1.12	2.31
Butt Levees										
Blade-Box	6'-7'		0.31	0.06	0.20		0.02	0.59	0.38	0.97
IRRIGATE LABOR	hour				0.55		0.02	0.57		0.57
Ditcher (1m/160a)			0.15	0.04	0.10		0.01	0.30	0.20	0.50
Roll-Out Pipe	ft	6.60					0.29	6.89		6.89
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.19	0.05	0.31		0.02	0.57	0.57	1.14
Install Gates										
IRRIGATE LABOR	hour				1.10		0.05	1.15		1.15
Apply Water										
IRRIGATE LABOR	hour				1.46		0.06	1.52		1.52
Apply Water										
IRRIGATE LABOR	hour				1.46		0.05	1.51		1.51
Apply Water										
IRRIGATE LABOR	hour				1.46		0.04	1.50		1.50
Apply Water										
IRRIGATE LABOR	hour				1.46		0.03	1.49		1.49
Remove Gates										
IRRIGATE LABOR	hour				0.37		0.01	0.38		0.38
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.45	0.10	0.26		0.01	0.82	0.70	1.52
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.10	0.03	0.15			0.28	0.28	0.56
Land Forming ($300)	each								29.31	29.31
Levee Gates	each								0.23	0.23
Well & Pump, Flood	each			4.05			0.15	4.20	16.49	20.69
Engine, Mult In Rice	each								13.21	13.21
May Irrigation	ac-in		9.49	0.98			0.46	10.93		10.93
June Irrigation	ac-in		11.39	1.17			0.46	13.02		13.02
July Irrigation	ac-in		11.39	1.17			0.37	12.93		12.93
August Irrigation	ac-in		11.39	1.17			0.27	12.83		12.83
TOTALS		8.60	45.52	8.97	9.58	0.00	2.48	75.15	62.49	137.64

Note: Cost of production estimates are based on 2007 input prices.

Appendix Table 11. Estimated costs for field operations, per acre
Straight levee rice – zero grade flood irrigation system
80-acre system, 19 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.37		0.02	0.39		0.39
Apply Water										
IRRIGATE LABOR	hour				1.83		0.08	1.91		1.91
Apply Water										
IRRIGATE LABOR	hour				1.83		0.07	1.90		1.90
Apply Water										
IRRIGATE LABOR	hour				1.83		0.05	1.88		1.88
Apply Water										
IRRIGATE LABOR	hour				1.83		0.04	1.87		1.87
Land Forming ($300)	each								29.31	29.31
Well & Pump, Flood	each			4.05			0.15	4.20	16.49	20.69
Engine, Rice SL, 75	each								13.21	13.21
May Irrigation	ac-in		7.59	0.69			0.36	8.64		8.64
June Irrigation	ac-in		9.49	0.87			0.38	10.74		10.74
July Irrigation	ac-in		9.49	0.87			0.30	10.66		10.66
August Irrigation	ac-in		9.49	0.87			0.23	10.59		10.59
TOTALS		0.00	36.06	7.35	7.69	0.00	1.68	52.78	59.01	111.79

Note: Cost of production estimates are based on 2007 input prices.

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