

MUSCADINE

2010

FRUIT AND NUT

PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2010-04

June 2010

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Estimated costs for land, management, and general farm overhead are not included in this report.

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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2010 Planning Budgets

Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for fruit 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 for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs 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 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 to reflect their specific situations. Income is not included in the fruit planning budgets due to the volatile nature of prices in the fresh produce market. Budgets reflect the cost of production per acre planted.

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 current practices.

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 judgement of the committee members. Quantities of materials and individual production practices are based on generally accepted recommendations by committee members.

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2009. (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, 13).

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for several different labor categories. Operator labor is that labor required to operate all power-driven equipment.

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 (Boehlje and Eidman, p. 143). When a combination of machines or equipment is required to perform a single operation, the total cost per acre for all equipment used in the operation is estimated. The fixed cost of machinery ownership is calculated by first computing the capital recovery factor and then using it to estimate the annual capital recovery charge.

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

CRCPH = Capital recovery charge per hour
 HAU = Hours of annual use
 CRCPA = Capital recovery charge per acre
 PR = Performance rate

Estimates of Irrigation Costs

Generally, irrigation is recommended for fruit production. Irrigation costs for the most commonly used irrigation systems are presented in Appendix Tables 7, 8, 9, 10, 11, and 12. Each appendix table lists all annual supplies, prices, and quantities required.

Costs for the water will vary depending on the water source. Climatic conditions during the growing season will dictate water usage.

Estimates of Marketing and Grading Costs

Marketing and grading costs should be viewed as only rough estimates. These costs are highly dependent upon the market outlet. For producers with traditional customers acquired over the years, there may be no brokerage fees. Other packing for shipping may go through a broker and incur packaging costs as well.

Muscadine Production

The user should consider the following assumptions when using the muscadine enterprise budgets. These assumptions are based on the growing conditions and environment which best represents current production systems. To reduce site preparation costs, the site is established on previously cleared land. The life of the vineyard is estimated at 20 plus years. The planting pattern is 20 ft vine spacings with 12 ft from row center to row center, 181 vines per 5 acres. Varieties represented are Purple Fresh, Bronze Fresh, and Bronze Juice. Drip irrigation is expected to contribute approximately 50 percent of the water needs. Rainfall will supply the balance. A single wire trellis system is used.

Enterprise Budgets

Table 1.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 1, establishment
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Mark of Rows				1.00	Feb											
Hand Labor	hour									1.00	8.92					8.92
Hand Labor	hour			1.00	Feb					0.60	5.35					5.35
Soil Test	each											1.0000	6.00	6.00		6.00
Lime (Spread)	ton			1.00	Feb							3.0000	38.00	114.00		114.00
Sub-Soiler	1 shank	MFWD 50 hp	1.078	3.00	Feb	21.04	17.01	1.00	2.75	3.23	36.33					78.13
Chisel Plow	8 Ft	MFWD 50 hp	0.220	1.00	Feb	1.43	1.16	0.59	1.15	0.22	2.47					6.80
Disk Harrow	10 Ft	MFWD 50 hp	0.198	1.00	Feb	1.29	1.04	0.43	1.02	0.19	2.23					6.01
Planting				1.00	Feb											
Trailer Utility	10 ft	MFWD 50 hp	0.600			3.90	3.15	0.09	0.33	0.60	6.74					14.21
Hand Labor	hour									4.50	40.14					40.14
Muscadine Vine	each											181.0000	7.75	1402.75		1402.75
Bamboo Stakes	each											181.0000	0.30	54.30		54.30
Bldg Trellis Grapes				1.00	Mar											
Trailer Utility	10 ft	2WD 50 hp	0.600			3.94	3.40	0.09	0.33	0.60	6.74					14.50
Hand Labor	hour									60.00	535.20					535.20
Grape Trellis Inputs				1.00	Mar											
End Post Wine Grapes	each											24.0000	22.00	528.00		528.00
Wood Post 3" x 7'	each											216.0000	3.00	648.00		648.00
Wire - Wine Grape	ft											3720.0000	0.01	73.47		73.47
Anchors	each											288.0000	6.65	1915.20		1915.20
Tighteners	each											24.0000	2.50	60.00		60.00
Bldg Trellis Grapes				1.00	Mar											
Wire Links - W.Grape	each											12.0000	2.15	25.80		25.80
Wire Vises - W.Grape	each											24.0000	1.65	39.60		39.60
End Post Anchors	each											24.0000	6.90	165.60		165.60
Set up Irrigation				1.00	Mar											
Irri. Setup 8' 12gpm	5445ft											1.0000	455.00	455.00		455.00
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81					5.03
Hand Labor	hour									1.00	8.92					8.92
Amm Nitrate (34%)	cwt											0.2500	28.00	7.00		7.00
Early Weed Control				1.00	Mar											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Prowl 3.3 EC	qt											3.5000	8.38	29.33		29.33
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									2.00	17.84					17.84
1/2 of water needed	100gal											3.0000	0.28	0.84		0.84
Mow between Rows				1.00	Apr											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50					30.58
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00		28.00
Early Weed Control				1.00	Apr											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Fusilade DX	pt											0.7500	22.88	17.16		17.16
Surfactant Non Ionic	pt											0.7500	1.55	1.16		1.16
Irrigate & Check				3.00	May											
Irrigation Labor	hour									4.50	40.14					40.14
1/2 of water needed	100gal											4.5000	0.28	1.26		1.26

(continued)

Table 1.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 1, establishment
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST			
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST				
											dollars		dollars			dollars		
Mow between Rows				1.00	May													
Rotary Cutter	6ft	MFWD 50 hp	0.572				3.72	3.01	1.62	1.26	0.57	6.43					16.04	
Train, Stake, & Tie				1.00	May													
Hand Labor	hour										30.00	267.60					267.60	
Utility Vehicle	4 x 4		0.249	1.00	May		0.61	1.61			0.25	2.81					5.03	
Hand Labor	hour										1.00	8.92					8.92	
Amm Nitrate (34%)	cwt												0.2500	28.00	7.00		7.00	
Irrigate & Check				4.00	Jun													
Irrigation Labor	hour										8.00	71.36					71.36	
1/2 of water needed	100gal												6.0000	0.28	1.68		1.68	
Mow between Rows				1.00	Jun													
Rotary Cutter	6ft	MFWD 50 hp	0.572				3.72	3.01	1.62	1.26	0.57	6.43					16.04	
Train Vines				1.00	Jun													
Hand Labor	hour										38.00	338.96					338.96	
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun		1.22	3.25	0.06	0.35	0.50	5.62					10.50	
Malathion 57EC	pt												1.5000	4.23	6.35		6.35	
Irrigate & Check				4.00	Jul													
Irrigation Labor	hour										8.00	71.36					71.36	
1/2 of water needed	100gal												6.0000	0.28	1.68		1.68	
Mow between Rows				1.00	Jul													
Rotary Cutter	6ft	MFWD 50 hp	0.572				3.72	3.01	1.62	1.26	0.57	6.43					16.04	
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul		1.22	3.25	0.06	0.35	0.50	5.62					10.50	
Malathion 57EC	pt												1.5000	4.23	6.35		6.35	
Weed and Clean				1.00	Jul													
Sprayer (BC & Wand)	12 ft	4 x 4	0.500				1.22	3.25	0.06	0.35	0.50	5.62					10.50	
Gramoxone Inteon	pt												2.0000	4.00	8.00		8.00	
Irrigate & Check				4.00	Aug													
Hand Labor	hour										8.00	71.36					71.36	
1/2 of water needed	100gal												6.0000	0.28	1.68		1.68	
Mow between Rows				1.00	Aug													
Rotary Cutter	6ft	MFWD 50 hp	0.572				3.72	3.01	1.62	1.26	0.57	6.43					16.04	
Spray (Broadcast)	27'	MFWD 50 hp	0.062	1.00	Aug		0.41	0.33	0.15	0.20	0.09	0.98					2.07	
Captan 50 WP	lb												3.0000	5.53	16.59		16.59	
Rovral 4F	pt												1.7500	17.83	31.20		31.20	
Irrigate & Check				2.00	Sep													
Irrigation Labor	hour										3.00	26.76					26.76	
1/2 of water needed	100gal												3.0000	0.28	0.84		0.84	
Mow between Rows				1.00	Sep													
Rotary Cutter	6ft	MFWD 50 hp	0.572				3.72	3.01	1.62	1.26	0.57	6.43					16.04	
TOTALS							67.15	68.07	14.48	24.11	181.83	1650.12				5653.84	7477.77	
INTEREST ON OPERATING CAPITAL																	215.75	
UNALLOCATED LABOR																	27.41	
TOTAL SPECIFIED COST																	7720.93	

Note: Cost of production estimates are based on 2009 input prices.
Fertilization decisions should be based on soil tests.

Table 1.B Estimated costs per acre
 Muscadine, year 1, establishment
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	38.00	3.0000	114.00	_____
Amm Nitrate (34%)	cwt	28.00	1.5000	42.00	_____
FUNGICIDE					
Captan 50 WP	lb	5.53	3.0000	16.59	_____
Rovral 4F	pt	17.83	1.7500	31.20	_____
HERBICIDE					
Prowl 3.3 EC	qt	8.38	3.5000	29.33	_____
Fusilade DX	pt	22.88	0.7500	17.16	_____
Gramoxone Inteon	pt	4.00	2.0000	8.00	_____
INSECTICIDE					
Malathion 57EC	pt	4.23	3.0000	12.69	_____
SEED/PLANTS					
Muscadine Vine	each	7.75	181.0000	1402.75	_____
OTHER					
Soil Test	each	6.00	1.0000	6.00	_____
Bamboo Stakes	each	0.30	181.0000	54.30	_____
End Post Wine Grapes	each	22.00	24.0000	528.00	_____
Wood Post 3" x 7'	each	3.00	216.0000	648.00	_____
Wire - Wine Grape	ft	0.01	3720.0000	73.47	_____
Anchors	each	6.65	288.0000	1915.20	_____
Tighteners	each	2.50	24.0000	60.00	_____
Wire Links - W.Grape	each	2.15	12.0000	25.80	_____
Wire Vises - W.Grape	each	1.65	24.0000	39.60	_____
End Post Anchors	each	6.90	24.0000	165.60	_____
Irri. Setup 8' 12gpm	5445ft	455.00	1.0000	455.00	_____
Surfactant Non Ionic	pt	1.55	0.7500	1.16	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	28.5000	7.98	_____
Operator Labor					
Tractors	hour	11.23	11.7003	131.39	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Hand Labor					
Special Labor	hour	8.92	144.1000	1285.37	_____
Implements	hour	8.92	0.0313	0.28	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.23	2.4400	27.41	_____
DIESEL FUEL					
Tractors	gal	2.22	23.6779	52.54	_____
GASOLINE					
Tractors	gal	2.47	1.5000	3.70	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	14.48	1.0000	14.48	_____
Tractors	acre	9.69	1.0000	9.69	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	215.75	1.0000	215.75	_____
TOTAL DIRECT EXPENSES				7628.75	_____
FIXED EXPENSES					
Implements	acre	24.11	1.0000	24.11	_____
Tractors	acre	64.85	1.0000	64.85	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
TOTAL FIXED EXPENSES				92.18	_____
TOTAL SPECIFIED EXPENSES				7720.93	_____

Note: Cost of production estimates are based on 2009 input prices.
 Fertilization decisions should be based on soil tests.

Table 2.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 2
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Pruning & Training				1.00	Jan										
Hand Labor	hour									9.00	80.28				80.28
Mow between Rows				1.00	Jan										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Trellis repair Grape				1.00	Jan										
Hand Labor	hour									2.00	17.84				17.84
Early Weed Control				1.00	Jan										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Casaron 4G	lb											5.0000	2.11	10.55	10.55
Replant Grapes				1.00	Feb										
Hand Labor	hour									2.00	17.84				17.84
Muscadine Vine	each											9.0000	7.75	69.75	69.75
Spray (Broadcast)	27'	MFWD 50 hp	0.062	1.00	Feb	0.41	0.33	0.15	0.20	0.09	0.98				2.07
Liquid Lime Sulfur	gal											10.0000	11.41	114.10	114.10
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00	28.00
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									2.00	17.84				17.84
1/2 of water needed	100gal											5.0000	0.28	1.40	1.40
Mow between Rows				1.00	Apr										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50				30.58
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00	28.00
Train Vines				1.00	Apr										
Hand Labor	hour									13.00	115.96				115.96
Weed and Clean				1.00	Apr										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				3.00	May										
Irrigation Labor	hour									4.50	40.14				40.14
1/2 of water needed	100gal											7.5000	0.28	2.10	2.10
Mow between Rows				1.00	May										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Train Vines				1.00	May										
Hand Labor	hour									13.00	115.96				115.96
Utility Vehicle	4 x 4		0.249	1.00	May	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00	28.00
Weed and Clean				1.00	May										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00

(continued)

Table 2.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 2
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT		TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	
						-----dollars-----						-----dollars-----		
Irrigate & Check				4.00	Jun									
Irrigation Labor	hour									8.00	71.36			71.36
1/2 of water needed	100gal											10.0000	0.28	2.80
Mow between Rows				1.00	Jun									2.80
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43			16.04
Train Vines				1.00	Jun									
Hand Labor	hour									13.00	115.96			115.96
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun	1.22	3.25	0.06	0.35	0.50	5.62			10.50
Malathion 57EC	pt											1.5000	4.23	6.35
Weed and Clean				1.00	Jun									6.35
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62			10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00
Irrigate & Check				4.00	Jul									8.00
Irrigation Labor	hour									8.00	71.36			71.36
1/2 of water needed	100gal											10.0000	0.28	2.80
Mow between Rows				1.00	Jul									2.80
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43			16.04
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62			10.50
Malathion 57EC	pt											1.5000	4.23	6.35
Weed and Clean				1.00	Jul									6.35
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62			10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00
Irrigate & Check				4.00	Aug									8.00
Hand Labor	hour									8.00	71.36			71.36
1/2 of water needed	100gal											6.0000	0.28	1.68
Mow between Rows				1.00	Aug									1.68
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43			16.04
Weed and Clean				1.00	Aug									
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62			10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00
Irrigate & Check				2.00	Sep									8.00
Irrigation Labor	hour									3.00	26.76			26.76
1/2 of water needed	100gal											3.0000	0.28	0.84
Mow between Rows				1.00	Sep									0.84
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43			16.04
Weed and Clean				1.00	Sep									
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62			10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00
Prorated Establish.	acre				Jan							1.0000		700.72
Irrigation	acre				Jan							1.0000		181.36
TOTALS						44.15	58.32	14.14	21.19	97.45	892.19			350.72
INTEREST ON OPERATING CAPITAL														2262.79
UNALLOCATED LABOR														31.36
TOTAL SPECIFIED COST														22.27
														2316.42

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 2.B Estimated costs per acre
 Muscadine, year 2
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Liquid Lime Sulfur	gal	11.41	10.0000	114.10	_____
Amm Nitrate (34%)	cwt	28.00	3.0000	84.00	_____
HERBICIDE					
Casaron 4G	lb	2.11	5.0000	10.55	_____
Gramoxone Inteon	pt	4.00	12.0000	48.00	_____
INSECTICIDE					
Malathion 57EC	pt	4.23	3.0000	12.69	_____
SEED/PLANTS					
Muscadine Vine	each	7.75	9.0000	69.75	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	41.5000	11.62	_____
Operator Labor					
Tractors	hour	11.23	9.4192	105.79	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Hand Labor					
Special Labor	hour	8.92	62.0000	553.04	_____
Implements	hour	8.92	0.0313	0.28	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.22	1.9838	22.27	_____
DIESEL FUEL					
Tractors	gal	2.22	12.6602	28.08	_____
GASOLINE					
Tractors	gal	2.47	2.7000	6.66	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	14.14	1.0000	14.14	_____
Tractors	acre	8.19	1.0000	8.19	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	31.36	1.0000	31.36	_____
TOTAL DIRECT EXPENSES				1354.83	_____
FIXED EXPENSES					
Implements	acre	21.19	1.0000	21.19	_____
Tractors	acre	55.10	1.0000	55.10	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
Prorated Establish.	acre	700.72	1.0000	700.72	_____
Irrigation	acre	181.36	1.0000	181.36	_____
TOTAL FIXED EXPENSES				961.59	_____
TOTAL SPECIFIED EXPENSES				2316.42	_____

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 3.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 3, 1,810 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Pruning & Training				1.00	Jan										
Hand Labor	hour									30.00	267.60				267.60
Mow between Rows				1.00	Jan										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Trellis repair Grape				1.00	Jan										
Hand Labor	hour									2.00	17.84				17.84
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											2.0000	28.00	56.00	56.00
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									2.00	17.84				17.84
1/2 of water needed	100gal											8.0000	0.28	2.24	2.24
Mow between Rows				1.00	Apr										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50				30.58
Amm Nitrate (34%)	cwt											1.5000	28.00	42.00	42.00
Train Vines				1.00	Apr										
Hand Labor	hour									10.00	89.20				89.20
Weed and Clean				1.00	Apr										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				3.00	May										
Irrigation Labor	hour									4.50	40.14				40.14
1/2 of water needed	100gal											12.0000	0.28	3.36	3.36
Mow between Rows				1.00	May										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Train Vines				1.00	May										
Hand Labor	hour									10.00	89.20				89.20
Utility Vehicle	4 x 4		0.249	1.00	May	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00	28.00
Weed and Clean				1.00	May										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				4.00	Jun										
Irrigation Labor	hour									8.00	71.36				71.36
1/2 of water needed	100gal											16.0000	0.28	4.48	4.48
Mow between Rows				1.00	Jun										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Train Vines				1.00	Jun										
Hand Labor	hour									10.00	89.20				89.20
Weed and Clean				1.00	Jun										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00

(continued)

Table 3.A Estimated resource use and costs for field operations, per acre
Muscadine, year 3, 1,810 lb yield
Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56		18.56
Irrigate & Check				4.00	Jul											
Irrigation Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											16.0000	0.28	4.48		4.48
Mow between Rows				1.00	Jul											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56		18.56
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Danitol 2.4EC	oz											10.0000	1.35	13.50		13.50
Weed and Clean				1.00	Jul											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				4.00	Aug											
Hand Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											6.0000	0.28	1.68		1.68
Mow between Rows				1.00	Aug											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Aug											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Harvest Muscadines				1.00	Aug											
Harvest Labor	hour									50.00	446.00					446.00
Muscadine (lug)	12lb											151.0000	4.25	641.75		641.75
Fruit to Field Edge				4.00	Aug											
Trailer Fruit 4'x6'	trip	4 x 4	1.000			9.77	25.96	0.53	1.00	4.00	44.92					82.18
Irrigate & Check				2.00	Sep											
Irrigation Labor	hour									3.00	26.76					26.76
1/2 of water needed	100gal											3.0000	0.28	0.84		0.84
Mow between Rows				1.00	Sep											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Sep											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Early Weed Control				1.00	Nov											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Solicam DF	lb											2.0000	23.41	46.82		46.82
Prorated Establish.	acre				Jan							1.0000				700.72
Irrigation	acre				Jan							1.0000				181.36
TOTALS						54.73	87.20	14.58	22.34	161.85	1476.95			930.27		3468.15
INTEREST ON OPERATING CAPITAL																44.03
UNALLOCATED LABOR																32.23
TOTAL SPECIFIED COST																3544.41

Note: Cost of production estimates are based on 2009 input prices.
Fertilization decisions should be based on soil tests.

Table 3.B Estimated costs per acre
 Muscadine, year 3, 1,810 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Amm Nitrate (34%)	cwt	28.00	4.5000	126.00	_____
HERBICIDE					
Gramoxone Inteon	pt	4.00	12.0000	48.00	_____
Solicam DF	lb	23.41	2.0000	46.82	_____
INSECTICIDE					
Imidan 70 WSB	lb	9.28	4.0000	37.12	_____
Danitol 2.4EC	oz	1.35	10.0000	13.50	_____
SEED/PLANTS					
Muscadine (lug)	12lb	4.25	151.0000	641.75	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	61.0000	17.08	_____
Operator Labor					
Tractors	hour	11.23	13.8565	155.63	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Harvest Labor					
Special Labor	hour	8.92	50.0000	446.00	_____
Hand Labor					
Special Labor	hour	8.92	72.0000	642.24	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.22	2.8713	32.23	_____
DIESEL FUEL					
Tractors	gal	2.22	12.4989	27.72	_____
GASOLINE					
Tractors	gal	2.47	5.4000	13.33	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	14.58	1.0000	14.58	_____
Tractors	acre	12.46	1.0000	12.46	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	44.03	1.0000	44.03	_____
TOTAL DIRECT EXPENSES				2552.79	_____
FIXED EXPENSES					
Implements	acre	22.34	1.0000	22.34	_____
Tractors	acre	83.98	1.0000	83.98	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
Prorated Establish.	acre	700.72	1.0000	700.72	_____
Irrigation	acre	181.36	1.0000	181.36	_____
TOTAL FIXED EXPENSES				991.62	_____
TOTAL SPECIFIED EXPENSES				3544.41	_____

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 4.A Estimated resource use and costs for field operations, per acre
Muscadine, year 4, 6,335 lb yield
Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Pruning & Training				1.00	Jan											
Hand Labor	hour									91.00	811.72					811.72
Mow between Rows				1.00	Jan											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Trellis repair Grape				1.00	Jan											
Hand Labor	hour									2.00	17.84					17.84
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81					5.03
Hand Labor	hour									1.00	8.92					8.92
Amm Nitrate (34%)	cwt											2.0000	28.00	56.00		56.00
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									2.00	17.84					17.84
1/2 of water needed	100gal											8.0000	0.28	2.24		2.24
Spot Spray				1.00	Apr											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Glyphosate 3lb a.e.	pt											2.0000	3.49	6.98		6.98
Mow between Rows				1.00	Apr											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50					30.58
Amm Nitrate (34%)	cwt											2.5000	28.00	70.00		70.00
Train Vines				1.00	Apr											
Hand Labor	hour									10.00	89.20					89.20
Weed and Clean				1.00	Apr											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				3.00	May											
Irrigation Labor	hour									4.50	40.14					40.14
1/2 of water needed	100gal											12.0000	0.28	3.36		3.36
Mow between Rows				1.00	May											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Train Vines				1.00	May											
Hand Labor	hour									10.00	89.20					89.20
Utility Vehicle	4 x 4		0.249	1.00	May	0.61	1.61			0.25	2.81					5.03
Hand Labor	hour									1.00	8.92					8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00		28.00
Weed and Clean				1.00	May											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				4.00	Jun											
Irrigation Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											16.0000	0.28	4.48		4.48
Mow between Rows				1.00	Jun											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Train Vines				1.00	Jun											
Hand Labor	hour									10.00	89.20					89.20
Weed and Clean				1.00	Jun											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56		18.56

(continued)

Table 4.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 4, 6,335 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Irrigate & Check				4.00	Jul											
Irrigation Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											16.0000	0.28	4.48		4.48
Mow between Rows				1.00	Jul											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56		18.56
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Danitol 2.4EC	oz											10.0000	1.35	13.50		13.50
Weed and Clean				1.00	Jul											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				4.00	Aug											
Hand Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											6.0000	0.28	1.68		1.68
Mow between Rows				1.00	Aug											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Aug											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Harvest Muscadines				1.00	Aug											
Harvest Labor	hour									616.00	5494.72					5494.72
Muscadine (lug)	12lb											528.0000	4.25	2244.00		2244.00
Fruit to Field Edge				13.00	Aug											
Trailer Fruit 4'x6'	trip	4 x 4	1.000			31.76	84.38	1.73	3.25	13.00	145.99					267.11
Irrigate & Check				2.00	Sep											
Irrigation Labor	hour									3.00	26.76					26.76
1/2 of water needed	100gal											3.0000	0.28	0.84		0.84
Mow between Rows				1.00	Sep											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Sep											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Spot Spray				1.00	Oct											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Glyphosate 3lb a.e.	pt											2.0000	3.49	6.98		6.98
Early Weed Control				1.00	Nov											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Solicam DF	lb											2.0000	23.41	46.82		46.82
Prorated Establish.	acre				Jan							1.0000				700.72
Irrigation	acre				Jan							1.0000				181.36
TOTALS						79.16	152.12	15.90	25.29	798.85	7182.10			2574.48		10911.13
INTEREST ON OPERATING CAPITAL																142.07
UNALLOCATED LABOR																54.69
TOTAL SPECIFIED COST																11107.89

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 4.B Estimated costs per acre
 Muscadine, year 4, 6,335 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Amm Nitrate (34%)	cwt	28.00	5.5000	154.00	_____
HERBICIDE					
Glyphosate 3lb a.e.	pt	3.49	4.0000	13.96	_____
Gramoxone Inteon	pt	4.00	12.0000	48.00	_____
Solicam DF	lb	23.41	2.0000	46.82	_____
INSECTICIDE					
Imidan 70 WSB	lb	9.28	4.0000	37.12	_____
Danitol 2.4EC	oz	1.35	10.0000	13.50	_____
SEED/PLANTS					
Muscadine (lug)	12lb	4.25	528.0000	2244.00	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	61.0000	17.08	_____
Operator Labor					
Tractors	hour	11.23	23.8565	267.94	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Harvest Labor					
Special Labor	hour	8.92	616.0000	5494.72	_____
Hand Labor					
Special Labor	hour	8.92	133.0000	1186.36	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.22	4.8713	54.69	_____
DIESEL FUEL					
Tractors	gal	2.22	12.4989	27.72	_____
GASOLINE					
Tractors	gal	2.47	11.4000	28.15	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	15.90	1.0000	15.90	_____
Tractors	acre	22.07	1.0000	22.07	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	142.07	1.0000	142.07	_____
TOTAL DIRECT EXPENSES				10048.40	_____
FIXED EXPENSES					
Implements	acre	25.29	1.0000	25.29	_____
Tractors	acre	148.90	1.0000	148.90	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
Prorated Establish.	acre	700.72	1.0000	700.72	_____
Irrigation	acre	181.36	1.0000	181.36	_____
TOTAL FIXED EXPENSES				1059.49	_____
TOTAL SPECIFIED EXPENSES				11107.89	_____

Note: Cost of production estimates are based on 2009 input prices.
Fertilization decisions should be based on soil tests.

Table 5.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 5, 16,290 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Pruning & Training				1.00	Jan											
Hand Labor	hour									91.00	811.72					811.72
Mow between Rows				1.00	Jan											
Sprayer (BC & Wand)	12 ft	MFWD 50 hp	0.500			3.26	2.63	0.06	0.35	0.50	5.62					11.92
Trellis repair Grape				1.00	Jan											
Hand Labor	hour									2.00	17.84					17.84
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81					5.03
Hand Labor	hour									1.00	8.92					8.92
Amm Nitrate (34%)	cwt											2.0000	28.00	56.00		56.00
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									2.00	17.84					17.84
1/2 of water needed	100gal											8.0000	0.28	2.24		2.24
Spot Spray				1.00	Apr											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Glyphosate 3lb a.e.	pt											2.0000	3.49	6.98		6.98
Mow between Rows				1.00	Apr											
Sprayer (BC & Wand)	12 ft	MFWD 50 hp	0.500			3.26	2.63	0.06	0.35	0.50	5.62					11.92
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50					30.58
Amm Nitrate (34%)	cwt											2.5000	28.00	70.00		70.00
Train Vines				1.00	Apr											
Hand Labor	hour									10.00	89.20					89.20
Weed and Clean				1.00	Apr											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				3.00	May											
Irrigation Labor	hour									4.50	40.14					40.14
1/2 of water needed	100gal											12.0000	0.28	3.36		3.36
Mow between Rows				1.00	May											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Train Vines				1.00	May											
Hand Labor	hour									10.00	89.20					89.20
Utility Vehicle	4 x 4		0.249	1.00	May	0.61	1.61			0.25	2.81					5.03
Hand Labor	hour									1.00	8.92					8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00		28.00
Weed and Clean				1.00	May											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Irrigate & Check				4.00	Jun											
Irrigation Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal											16.0000	0.28	4.48		4.48
Mow between Rows				1.00	Jun											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Train Vines				1.00	Jun											
Hand Labor	hour									10.00	89.20					89.20
Weed and Clean				1.00	Jun											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00		8.00
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56		18.56

(continued)

Table 5.A Estimated resource use and costs for field operations, per acre
Muscadine, year 5, 16,290 lb yield
Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Irrigate & Check				4.00	Jul										
Irrigation Labor	hour									8.00	71.36				71.36
1/2 of water needed	100gal											16.0000	0.28	4.48	4.48
Mow between Rows				1.00	Jul										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62				10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56	18.56
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62				10.50
Danitol 2.4EC	oz											10.0000	1.35	13.50	13.50
Weed and Clean				1.00	Jul										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				4.00	Aug										
Hand Labor	hour									8.00	71.36				71.36
1/2 of water needed	100gal											6.0000	0.28	1.68	1.68
Mow between Rows				1.00	Aug										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Weed and Clean				1.00	Aug										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Harvest Muscadines				1.00	Aug										
Harvest Labor	hour									4073.0036331.16					36331.16
Muscadine (lug)	12lb											1358.0000	4.25	5771.50	5771.50
Fruit to Field Edge				34.00	Aug										
Trailer Fruit 4'x6'	trip	4 x 4	1.000			83.04	220.68	4.53	8.51	34.00	381.82				698.58
Irrigate & Check				2.00	Sep										
Irrigation Labor	hour									3.00	26.76				26.76
1/2 of water needed	100gal											3.0000	0.28	0.84	0.84
Mow between Rows				1.00	Sep										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Weed and Clean				1.00	Sep										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Spot Spray				1.00	Oct										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Glyphosate 3lb a.e.	pt											2.0000	3.49	6.98	6.98
Early Weed Control				1.00	Nov										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Solicam DF	lb											2.0000	23.41	46.82	46.82
Prorated Establish.	acre				Jan							1.0000			700.72
Irrigation	acre				Jan							1.0000			181.36
TOTALS						129.52	287.66	15.58	28.734276.7138252.75					6101.98	45698.30
INTEREST ON OPERATING CAPITAL															532.27
UNALLOCATED LABOR															101.51
TOTAL SPECIFIED COST															46332.08

Note: Cost of production estimates are based on 2009 input prices.
Fertilization decisions should be based on soil tests.

Table 5.B Estimated costs per acre
 Muscadine, year 5, 16,290 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Amm Nitrate (34%)	cwt	28.00	5.5000	154.00	_____
HERBICIDE					
Glyphosate 3lb a.e.	pt	3.49	4.0000	13.96	_____
Gramoxone Inteon	pt	4.00	12.0000	48.00	_____
Solicam DF	lb	23.41	2.0000	46.82	_____
INSECTICIDE					
Imidan 70 WSB	lb	9.28	4.0000	37.12	_____
Danitol 2.4EC	oz	1.35	10.0000	13.50	_____
SEED/PLANTS					
Muscadine (lug)	12lb	4.25	1358.0000	5771.50	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	61.0000	17.08	_____
Operator Labor					
Tractors	hour	11.23	44.7107	502.15	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Harvest Labor					
Special Labor	hour	8.92	4073.0000	36331.16	_____
Hand Labor					
Special Labor	hour	8.92	133.0000	1186.36	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.22	9.0421	101.51	_____
DIESEL FUEL					
Tractors	gal	2.22	12.1235	26.90	_____
GASOLINE					
Tractors	gal	2.47	24.0000	59.27	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	15.58	1.0000	15.58	_____
Tractors	acre	42.13	1.0000	42.13	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	532.27	1.0000	532.27	_____
TOTAL DIRECT EXPENSES				45133.61	_____
FIXED EXPENSES					
Implements	acre	28.73	1.0000	28.73	_____
Tractors	acre	284.44	1.0000	284.44	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
Prorated Establish.	acre	700.72	1.0000	700.72	_____
Irrigation	acre	181.36	1.0000	181.36	_____
TOTAL FIXED EXPENSES				1198.47	_____
TOTAL SPECIFIED EXPENSES				46332.08	_____

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 6.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 6, 21,720 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Pruning & Training				1.00	Jan										
Hand Labor	hour									91.00	811.72				811.72
Mow between Rows				1.00	Jan										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Trellis repair Grape				1.00	Jan										
Hand Labor	hour									2.00	17.84				17.84
Utility Vehicle	4 x 4		0.249	1.00	Mar	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											2.0000	28.00	56.00	56.00
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									2.00	17.84				17.84
1/2 of water needed	100gal											8.0000	0.28	2.24	2.24
Spot Spray				1.00	Apr										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Glyphosate 3lb a.e.	pt											2.0000	3.49	6.98	6.98
Mow between Rows				1.00	Apr										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Side Dresser	1R 3ft	MFWD 50 hp	0.846	1.00	Apr	5.50	4.45	2.11	9.02	0.84	9.50				30.58
Amm Nitrate (34%)	cwt											2.5000	28.00	70.00	70.00
Train Vines				1.00	Apr										
Hand Labor	hour									10.00	89.20				89.20
Weed and Clean				1.00	Apr										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				3.00	May										
Irrigation Labor	hour									4.50	40.14				40.14
1/2 of water needed	100gal											12.0000	0.28	3.36	3.36
Mow between Rows				1.00	May										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Train Vines				1.00	May										
Hand Labor	hour									10.00	89.20				89.20
Utility Vehicle	4 x 4		0.249	1.00	May	0.61	1.61			0.25	2.81				5.03
Hand Labor	hour									1.00	8.92				8.92
Amm Nitrate (34%)	cwt											1.0000	28.00	28.00	28.00
Weed and Clean				1.00	May										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Irrigate & Check				4.00	Jun										
Irrigation Labor	hour									8.00	71.36				71.36
1/2 of water needed	100gal											16.0000	0.28	4.48	4.48
Mow between Rows				1.00	Jun										
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43				16.04
Train Vines				1.00	Jun										
Hand Labor	hour									10.00	89.20				89.20
Weed and Clean				1.00	Jun										
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Gramoxone Inteon	pt											2.0000	4.00	8.00	8.00
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jun	1.22	3.25	0.06	0.35	0.50	5.62				10.50
Imidan 70 WSB	lb											2.0000	9.28	18.56	18.56

(continued)

Table 6.A Estimated resource use and costs for field operations, per acre
 Muscadine, year 6, 21,720 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010, continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Irrigate & Check				4.00	Jul											
Irrigation Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal												16.0000	0.28	4.48	4.48
Mow between Rows				1.00	Jul											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Imidan 70 WSB	lb												2.0000	9.28	18.56	18.56
Sprayer (BC & Wand)	12 ft	4 x 4	0.500	1.00	Jul	1.22	3.25	0.06	0.35	0.50	5.62					10.50
Danitol 2.4EC	oz												10.0000	1.35	13.50	13.50
Weed and Clean				1.00	Jul											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt												2.0000	4.00	8.00	8.00
Irrigate & Check				4.00	Aug											
Hand Labor	hour									8.00	71.36					71.36
1/2 of water needed	100gal												6.0000	0.28	1.68	1.68
Mow between Rows				1.00	Aug											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Aug											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt												2.0000	4.00	8.00	8.00
Harvest Muscadines				1.00	Aug											
Harvest Labor	hour									7240.00	64580.80					64580.80
Muscadine (lug)	12lb												1810.0000	4.25	7692.50	7692.50
Fruit to Field Edge				45.00	Aug											
Trailer Fruit 4'x6'	trip	4 x 4	1.000			109.91	292.08	6.00	11.27	45.00	505.35					924.61
Irrigate & Check				2.00	Sep											
Irrigation Labor	hour									3.00	26.76					26.76
1/2 of water needed	100gal												3.0000	0.28	0.84	0.84
Mow between Rows				1.00	Sep											
Rotary Cutter	6ft	MFWD 50 hp	0.572			3.72	3.01	1.62	1.26	0.57	6.43					16.04
Weed and Clean				1.00	Sep											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Gramoxone Inteon	pt												2.0000	4.00	8.00	8.00
Spot Spray				1.00	Oct											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Glyphosate 3lb a.e.	pt												2.0000	3.49	6.98	6.98
Early Weed Control				1.00	Nov											
Sprayer (BC & Wand)	12 ft	4 x 4	0.500			1.22	3.25	0.06	0.35	0.50	5.62					10.50
Solicam DF	lb												2.0000	23.41	46.82	46.82
Prorated Establish.	acre				Jan								1.0000			700.72
Irrigation Setup	acre				Jan								1.0000			181.36
TOTALS						157.31	359.82	20.17	33.31	7454.85	6627.54				8022.98	76103.21
INTEREST ON OPERATING CAPITAL																873.86
UNALLOCATED LABOR																126.56
TOTAL SPECIFIED COST																77103.63

Note: Cost of production estimates are based on 2009 input prices.

Fertilization decisions should be based on soil tests.

Table 6.B Estimated costs per acre
 Muscadine, year 6, 21,720 lb yield
 Irrigated, 20 ft spacing, 10gpm, 2178 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Amm Nitrate (34%)	cwt	28.00	5.5000	154.00	_____
HERBICIDE					
Glyphosate 3lb a.e.	pt	3.49	4.0000	13.96	_____
Gramoxone Inteon	pt	4.00	12.0000	48.00	_____
Solicam DF	lb	23.41	2.0000	46.82	_____
INSECTICIDE					
Imidan 70 WSB	lb	9.28	4.0000	37.12	_____
Danitol 2.4EC	oz	1.35	10.0000	13.50	_____
SEED/PLANTS					
Muscadine (lug)	12lb	4.25	1810.0000	7692.50	_____
IRRIGATION SUPPLIES					
1/2 of water needed	100gal	0.28	61.0000	17.08	_____
Operator Labor					
Tractors	hour	11.23	55.8565	627.30	_____
Self-Propelled	hour	11.23	0.4999	5.62	_____
Harvest Labor					
Special Labor	hour	8.92	7240.0000	64580.80	_____
Hand Labor					
Special Labor	hour	8.92	133.0000	1186.36	_____
Irrigation Labor					
Special Labor	hour	8.92	25.5000	227.46	_____
UNALLOCATED LABOR	hour	11.22	11.2713	126.56	_____
DIESEL FUEL					
Tractors	gal	2.22	12.4989	27.72	_____
GASOLINE					
Tractors	gal	2.47	30.6000	75.57	_____
Self-Propelled	gal	2.47	0.2999	0.74	_____
REPAIR & MAINTENANCE					
Implements	acre	20.17	1.0000	20.17	_____
Tractors	acre	52.80	1.0000	52.80	_____
Self-Propelled	acre	0.48	1.0000	0.48	_____
INTEREST ON OP. CAP.	acre	873.86	1.0000	873.86	_____
TOTAL DIRECT EXPENSES				75828.42	_____
FIXED EXPENSES					
Implements	acre	33.31	1.0000	33.31	_____
Tractors	acre	356.60	1.0000	356.60	_____
Self-Propelled	acre	3.22	1.0000	3.22	_____
Prorated Establish.	acre	700.72	1.0000	700.72	_____
Irrigation Setup	acre	181.36	1.0000	181.36	_____
TOTAL FIXED EXPENSES				1275.21	_____
TOTAL SPECIFIED EXPENSES				77103.63	_____

Note: Cost of production estimates are based on 2009 input prices.
 Fertilization decisions should be based on soil tests.

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour Mississippi, 2010

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-----					
Tractor (40-59hp)Cab	2WD 50 hp	27,323	600	8	2.57	11.23	5.71	0.85	17.79	5.67	23.46
Tractor (40-59hp)Cab	MFWD 50 hp	31,011	600	8	2.57	11.23	5.71	0.96	17.91	6.43	24.34
Tractor (40-59hp)RB	2WD 50 hp	21,340	600	8	2.57	11.23	5.71	0.66	17.61	4.42	22.03
Tractor (40-59hp)RB	MFWD 50 hp	25,324	600	8	2.57	11.23	5.71	0.79	17.73	5.25	22.99
Tractor (60-89hp)CAB	2WD 75 hp	37,648	600	8	3.86	11.23	8.57	1.17	20.97	7.81	28.79
Tractor (60-89hp)CAB	MFWD 75 hp	41,918	600	8	3.86	11.23	8.57	1.30	21.11	8.70	29.81
Tractor (60-89hp)RB	2WD 75 hp	30,393	600	8	3.86	11.23	8.57	0.94	20.74	6.30	27.05
Tractor (60-89hp)RB	MFWD 75 hp	34,785	600	8	3.86	11.23	8.57	1.08	20.88	7.22	28.10
Tractor (120-139hp)CB	MFWD 130	91,323	600	8	6.69	11.23	14.85	2.85	28.93	18.95	47.89
Tractor (160-179hp)CB	MFWD 170	123,668	600	8	8.75	11.23	19.42	3.86	34.52	26.69	61.21
Utility Vehicle	4 x 4	12,485	200	13	0.60	11.23	1.48	0.96	13.67	6.49	20.16

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, 2010

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-----					
Riding Mower	42" cut	2,799	12	10	2.00	0.708	7.96	3.50	4.96	16.42	19.32	35.74
Utility Vehicle	4 x 4	12,485	200	13	0.60	0.249	2.80	0.37	0.24	3.41	1.61	5.03

Notes:

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

Direct: Does not include interest on operating capital.

Appendix Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre Mississippi, 2010

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Auger	18"	2WD 50 hp	1,877	500	20	2.000	22.46	11.42	0.00	1.70	35.59	0.68	11.34	47.62
Auger	24"	2WD 50 hp	1,877	80	20	2.000	22.46	11.42	1.99	1.70	37.58	4.13	11.34	53.06
Bd Shaper (Blue B.)	Bed 8ftctr	2WD 75 hp	2,349	40	16	0.808	9.08	6.93	1.42	0.76	18.20	4.56	5.10	27.87
Blade-Scraper	6-7'	2WD 50 hp	1,583	200	20	2.500	28.07	14.28	1.87	2.13	46.37	1.71	14.17	62.27
Brush Blade	7ft	MFWD 50 hp	1,250	50	30	0.500	5.61	2.85	0.00	0.39	8.87	0.94	2.62	12.44
BS,L,T,Fung S Berry	6ftctr	2WD 75 hp	6,290	54	16	1.078	40.96	9.24	3.76	1.02	55.00	12.06	6.80	73.87
Chain Harrow	6 ft	4 x 4	430	100	1	0.343	3.86	0.50	0.01	0.33	4.71	1.55	2.23	8.50
Chisel Plow	8 Ft	2WD 75 hp	7,463	150	12	0.220	2.47	1.88	0.59	0.20	5.16	1.15	1.39	7.71
Chisel Plow	5 ft	MFWD 50 hp	2,800	150	12	0.220	2.47	1.25	0.22	0.17	4.12	0.43	1.15	5.71
Cultipacker	12 Ft	2WD 75 hp	5,583	300	12	0.124	1.39	1.06	0.16	0.11	2.74	0.25	0.78	3.78
Cultivate	2-Row	2WD 75 hp	4,160	59	27	0.312	3.50	2.67	0.32	0.29	6.81	1.69	1.97	10.48
Cyclone Spin	825 Lb	2WD 75 hp	899	50	8	0.084	0.94	0.72	0.05	0.07	1.80	0.22	0.53	2.56
Disk Bed (Hipper)	1-row	2WD 50 hp	3,167	160	10	0.750	8.42	4.28	0.44	0.64	13.79	1.90	4.25	19.94
Disk Bed (Hipper)	2-row	2WD 75 hp	3,785	160	10	0.284	3.19	2.43	0.20	0.26	6.09	0.86	1.79	8.74
Disk Harrow	6ft	MFWD 50 hp	2,224	180	10	0.330	3.71	1.88	0.20	0.26	6.06	0.47	1.73	8.28
Disk Harrow	10 Ft	2WD 75 hp	7,889	180	10	0.198	2.22	1.69	0.43	0.18	4.54	1.01	1.25	6.81
Fert Appl (Liquid)	4R-6'	MFWD 50 hp	15,003	150	8	1.309	20.54	7.48	13.09	1.03	42.16	16.31	6.88	65.35
Fert Sprd Pull Type	10 ft	2WD 75 hp	4,020	12	10	0.235	2.64	2.02	2.36	0.22	7.25	10.10	1.48	18.85
Front End Loader	.5yd	2WD 75 hp	5,822	100	10	0.600	6.73	5.14	1.04	0.56	13.49	4.60	3.78	21.88
Harvester Pecan	61"	2WD 50 hp	19,652	100	15	0.500	5.61	2.85	4.91	0.42	13.81	10.04	2.83	26.69
Mulch Lifter	1 Row	2WD 75 hp	1,900	29	30	0.589	6.61	5.05	0.12	0.55	12.35	2.77	3.71	18.85
Planter/Transplanter	1 Row	2WD 75 hp	2,380	31	19	1.586	60.27	13.59	0.12	1.50	75.50	10.76	10.00	96.27
Rotary Cutter	6ft	MFWD 50 hp	3,484	185	10	0.572	6.43	3.27	1.61	0.45	11.77	1.26	3.01	16.05
Rotary Cutter	7 ft	2WD 75 hp	4,057	185	10	0.169	1.90	1.45	0.55	0.16	4.07	0.43	1.06	5.57
Rotary Tiller	5 ft	2WD 75 hp	1,831	49	18	0.970	10.89	8.31	2.53	0.92	22.67	3.27	6.12	32.07
Shaker Pecan PTO	up to 38"	2WD 50 hp	9,323	50	15	0.500	5.61	2.85	3.10	0.42	12.00	9.52	2.83	24.37
Side Dresser	1R 3ft	2WD 75 hp	3,498	42	10	0.846	9.50	7.25	2.11	0.80	19.67	9.01	5.33	34.02
Spray (Broadcast)	27'	2WD 50 hp	5,022	200	8	0.062	0.98	0.35	0.14	0.04	1.53	0.19	0.27	2.00
Sprayer (Band)	12'	MFWD 50 hp	597	200	5	0.352	3.95	2.01	0.04	0.27	6.29	0.24	1.85	8.39
Sprayer (BC & Wand)	12 ft	4 x 4	597	200	5	0.500	5.61	0.74	0.05	0.48	6.89	0.34	3.24	10.48
Sprayer (BC & Wand)	4 ft	4 x 4	597	200	5	0.250	2.80	0.37	0.02	0.24	3.44	0.17	1.62	5.24
Sprayer (Broadcast)	12 ft	4 x 4	597	200	5	0.500	5.61	0.74	0.05	0.48	6.89	0.34	3.24	10.48
Sprayer - Utility	4 ft	4 x 4	597	200	5	0.250	2.80	0.37	0.02	0.24	3.44	0.17	1.62	5.24
Sprayer A-B Orchard	16' 300gal	MFWD 50 hp	14,636	200	16	0.286	3.21	1.63	1.04	0.22	6.12	2.04	1.50	9.67
Sprayer Air Blast	16' 100gal	2WD 75 hp	7,376	12	16	0.245	2.75	2.10	7.54	0.23	12.64	14.71	1.54	28.90
Sprayer- Pull Type	12'	4 x 4	640	1	1	0.500	5.61	0.74	3.20	0.48	10.03337	6.60	3.24	350.88
Sub-Soiler	1 shank	2WD 75 hp	558	54	23	1.078	12.11	9.24	0.33	1.02	22.71	0.91	6.80	30.43
Sub-Soiler	2 Shank	2WD 75 hp	1,599	20	23	0.404	4.54	3.46	0.96	0.38	9.36	2.65	2.55	14.56
Take up Reel (Mulch)	1 Row	2WD 75 hp	995	42	10	0.588	6.60	5.04	0.41	0.55	12.62	1.79	3.71	18.12
Trailer BB Plants	10ft	2WD 75 hp	1,095	200	15	2.000	22.46	17.14	0.29	1.89	41.79	1.09	12.61	55.50
Trailer Fruit 4'x6'	trip	4 x 4	500	200	15	1.000	11.23	1.48	0.13	0.96	13.80	0.25	6.49	20.54
Trailer Utility	10 ft	2WD 50 hp	1,095	200	15	0.600	6.73	3.42	0.08	0.40	10.65	0.32	2.65	13.64
Trailer Utility Limb	10 ft	2WD 75 hp	1,095	200	15	4.000	44.92	34.28	0.58	3.79	83.58	2.19	25.23	111.01
Trailer water	10 ft	2WD 50 hp	1,691	150	10	0.600	6.73	3.42	0.27	0.40	10.83	0.86	2.65	14.36
Wagon (dump) Pecan	12 ft	2WD 50 hp	10,000	50	15	0.333	3.73	1.90	3.72	0.28	9.65	6.80	1.88	18.35

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, 2010

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANT			Simazine 4L	qt	5.80
Dormant Oil	gal	40.00	Solicam DF	lb	23.41
CUSTOM			Surflan AS	qt	16.00
Broker Fee S-Berries	flat	1.00	INSECTICIDE		
Custom Apply Fert	acre	8.50	Agri-Mek	oz	3.59
Labor rebar post mfg	hour	8.26	Asana XL	oz	0.71
Labor rebar posts	hour	0.00	Baythroid XL	oz	2.15
Pick Strawberries	flat	1.70	Brigade WSB	lb	20.73
Site Prep w/Dozer	acre	213.00	Capture 2EC	oz	1.50
FERTILIZER			Confirm 2F	oz	1.62
32% Liquid Nitrogen	qt	12.99	Danitol 2.4EC	oz	1.35
Amm Nitrate (34%)	cwt	28.00	Imidan 70 WSB	lb	9.28
Amm Nitrate (34%)	lb	0.28	Kelthane MF	pt	5.60
Amm. Sulfate (21%N)	lb	0.22	Lorsban 4E	pt	6.42
Boron (20% Sol)	lb	0.40	Malathion 57EC	pt	4.23
Calcium Nitrate	lb	0.20	Malathion 5E	pt	3.81
Elemental Sulfur	lbs	0.35	Sevin XLR Plus	qt	9.85
Fert 0-24-24	cwt	13.00	Warrior ZT	oz	2.54
Fert 10-10-10	lb	0.29	IRRIGATION SUPPLIES		
Fert 10-10-10	cwt	29.00	1/2 of water needed	100gal	0.28
Fert 13-13-13	cwt	12.00	12 Model R	each	65.47
Lime (Spread)	ton	38.00	24 Model R	each	70.65
Liquid Lime Sulfur	gal	11.41	3/4PVCIns Male Adapt	each	1.42
Phosphorus(46% P205)	cwt	46.00	Adapter 7mm & 16mm	each	0.54
Potash (60% K20)	cwt	44.00	Adapter(Reg to Head)	1 1/2"	1.56
Potassium Nitrate	lb	0.36	Barb Lock Sleeve	1/4"	0.50
Potassium Sulfate	lb	0.27	Connector(barbxbarb)	each	0.10
Sul-Po-Mag	lb	0.21	Coupler	5/8"	0.75
Sulfur - wetable	lb	0.18	Coupler 16mm	each	0.50
Triple Superphosphat	lb	0.46	Drip Tape	roll	156.00
Zinc Sulfate 31%	lb	0.60	Dual Goof Plug	each	0.06
FUNGICIDE			End Plug for Header	1 1/2"	1.55
Abound	oz	2.60	Feeder Tube	ft	0.07
Bravo Weather Stick	pt	7.74	Fertigation System	each	215.00
Captan 50 WP	lb	5.53	Figure 8	each	0.50
Captan 80WDG	lb	6.01	Flush Valve	each	1.09
Dithane F-45	qt	7.15	GD SS clamp	each	0.57
Dithane Rainshield	lb	2.54	Header Line 1 1/2"	ft	0.38
Elast 400F	gal	50.81	Hole Punch	1/4"	3.00
Elevate 50 WDG	lb	35.55	Hose 26mm	ft	0.20
Elite 45DF	lb	48.12	Hose Clamp	1 1/2"	0.57
Elite 50WP	oz	3.27	LE Autoflush end	each	1.50
Enable 2F	oz	1.64	Micro Sprinkler	each	0.76
Ferbam	lb	11.32	Micro Tubing	ft	0.06
Indar 2F	oz	1.80	MPT Flow Meter	each	67.50
Kocide 101	lb	2.60	MPT M Adptr	each	1.37
Nova 40W	oz	4.00	MPT Tagline Filter	each	17.00
Pristine	oz	2.65	MPT Tank Valve	each	2.00
Prophyt	pt	4.40	Oval Hose 1" 21PSI	ft	0.15
Rally	oz	3.59	Pocket Pressure Gage	each	5.00
Ridomil Gold EC	oz	5.95	Pr-Pmr 20 PSI	each	12.00
Rovral 4F	pt	17.83	PR-PMR 30 PSI	each	12.00
Super-Tin 80WP	oz	2.22	Pressure Regulator	12 PSI	35.00
Switch	oz	4.16	PVC Female Adaptor	1 1/2"	3.65
Telone II	gal	14.96	PVC Fitting (adpt)	1 1/2"	0.85
HERBICIDE			PVC Fitting (bush)	1 1/2"	1.38
Casaron 4G	lb	2.11	PVC Ins Male Adapt	each	0.55
Chateau WDG	oz	6.38	PVC insert plug	each	1.12
Dervinol 50DF	lb	8.72	PVC insert Tee	each	1.34
Fusilade DX	pt	22.88	Quick Punch	each	3.00
Glyphosate 3lb a.e.	pt	3.49	Rural Water	ac-in	118.28
Gramoxone Inteon	pt	4.00	Service Unit	each	45.00
Gramoxone Max	pt	4.97	Shrader Vlv Cap	each	3.00
Poast Plus	pt	8.49	Signature 18mm.42gph	ft	0.18
Princep 4L	gal	25.44	Signiture 18mm.55gph	ft	0.18
Propimax EC	oz	2.36	Stake, Micro-Spray	each	0.50
Prowl 3.3 EC	qt	8.38	Transfer Barb	1/4"	0.25
Roundup Weathermax	gal	71.84	Venturi Kit	each	85.00
Roundup Weathermax	pt	8.98			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2010

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Venturi Kit20'x10gph	each	70.00			
Y Filter	1"	17.00			
OTHER					
1 gal bucket	each	1.50	Strawberry Flat	each	0.64
Anchors	each	6.65	Strawberry Pint	each	0.03
Bag-secure row cover	each	0.10	Surfactant Non Ionic	pt	1.55
Bamboo Stakes	each	0.30	Tighteners	each	2.50
BB Mkting fee TN-Ark	lb	0.23	Tissue Sample SBerry	each	4.50
BBMktingFee MS,AL,La	lb	0.23	Wire - Blackberry	ft	0.02
Bee Hive	each	52.00	Wire - Wine Grape	ft	0.01
Brace Post 2.5" x 7'	each	2.50	Wire Links - W.Grape	each	2.15
Burlap bag	each	0.60	Wire Vises - W.Grape	each	1.65
Clamshell Package	each	0.27	Wood Post 2.5" x 7'	each	2.50
Crop oil Conc. (Veg)	pt	2.51	Wood Post 3" x 7'	each	3.00
Drip Tape (6000Ft)	Roll	156.00	SEED/PLANTS		
End Post Anchors	each	6.90	Blackberry Plants	each	3.00
End Post Wine Grapes	each	22.00	Blueberry Plants T-A	each	2.85
Fabricate rebar post	post	5.00	Blueberry Plts M,A,L	each	2.00
Grow Tubes	each	0.85	Fescue Seed	lb	1.40
Line Posts Metal	each	6.25	Fig Trees	each	4.50
Mulch - MS,AL,LA.	cu yd	10.00	Grass Seed BB	lb	4.70
Mulch - TN & ARK	cu yd	22.00	Lugs (grapes)	each	4.00
Mythl Bromide 67/33	lb	4.50	Millet	lb	0.50
Plastic Mulch 5ft	4000ft	162.00	Muscadine (lug)	12lb	4.25
Pruner (Hand)	each	45.00	Muscadine Vine	each	7.75
Refrigeration-chill	month	375.00	Peach Trees	each	6.64
Row Covers	roll	147.00	Pecan Seedlings	each	16.00
Soil Test	each	6.00	Soybeans (RR)	lb	0.74
Soil Test Probe	each	75.00	Strawberry Plants	100	8.00
			Wine Grape Vines	each	1.75

Appendix Table 5. Estimated fuel prices
and interest rates Mississippi, 2010

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.22
Gasoline	gal	2.47
LP Gas	gal	2.64
INTEREST RATES		
Short-term	%	4.50
Intermediate-term	%	6.50

Appendix Table 6. Labor names, units and wage rates,
Mississippi, 2010.

Item name	Unit	Wage Rate
Operator Labor	hour	11.23
Harvest Labor	hour	8.92
Planting Labor	hour	8.92
Hand Labor	hour	8.92
Fertigation Labor	hour	8.92
Refresh Stawberries	hour	8.92
SBerry Pallet Pkging	hour	8.92
Irrigation Labor	hour	8.92
Pruning labor	hour	8.92

Appendix Table 7. Estimated costs per acre
 Drip tape irrigation system, 5 ft row spacing
 20 gpm with 8,712 ft of drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	215.00	1.0000	215.00	_____
Barb Lock Sleeve	1/4"	0.50	45.0000	22.50	_____
Transfer Barb	1/4"	0.25	45.0000	11.25	_____
Feeder Tube	ft	0.07	50.0000	3.50	_____
Header Line 1 1/2"	ft	0.38	300.0000	114.00	_____
Adapter(Reg to Head)	1 1/2"	1.56	1.0000	1.56	_____
End Plug for Header	1 1/2"	1.55	1.0000	1.55	_____
Hose Clamp	1 1/2"	0.57	2.0000	1.14	_____
Pressure Regulator	12 PSI	35.00	1.0000	35.00	_____
PVC Female Adaptor	1 1/2"	3.65	1.0000	3.65	_____
Y Filter	1"	17.00	1.0000	17.00	_____
PVC Fitting (bush)	1 1/2"	1.38	1.0000	1.38	_____
PVC Fitting (adpt)	1 1/2"	0.85	1.0000	0.85	_____
Hole Punch	1/4"	3.00	1.0000	3.00	_____
Coupler	5/8"	0.75	4.0000	3.00	_____

TOTAL DIRECT EXPENSES				434.38	_____
TOTAL INTEREST				28.23	_____

TOTAL SPECIFIED EXPENSES				462.61	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on the last line of Table A and also as a fixed expense on Table B in an irrigated budget. A capital recovery charge of \$462.61 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 8. Estimated costs per acre
 Drip tape irrigation system, 6 ft row spacing
 16 gpm with 7,260 ft of drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	215.00	1.0000	215.00	_____
Barb Lock Sleeve	1/4"	0.50	40.0000	20.00	_____
Transfer Barb	1/4"	0.25	40.0000	10.00	_____
Feeder Tube	ft	0.07	50.0000	3.50	_____
Header Line 1 1/2"	ft	0.38	300.0000	114.00	_____
Adapter(Reg to Head)	1 1/2"	1.56	1.0000	1.56	_____
End Plug for Header	1 1/2"	1.55	1.0000	1.55	_____
Hose Clamp	1 1/2"	0.57	2.0000	1.14	_____
Pressure Regulator	12 PSI	35.00	1.0000	35.00	_____
PVC Female Adaptor	1 1/2"	3.65	1.0000	3.65	_____
Y Filter	1"	17.00	1.0000	17.00	_____
PVC Fitting (bush)	1 1/2"	1.38	1.0000	1.38	_____
PVC Fitting (adpt)	1 1/2"	0.85	1.0000	0.85	_____
Hole Punch	1/4"	3.00	1.0000	3.00	_____
Coupler	5/8"	0.75	4.0000	3.00	_____

TOTAL DIRECT EXPENSES				430.63	_____
TOTAL INTEREST				28.00	_____

TOTAL SPECIFIED EXPENSES				458.63	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on the last line of Table A and also as a fixed expense on Table B in an irrigated budget. A capital recovery charge of \$458.63 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 9. Estimated costs per acre
 Drip tape irrigation system, 8 ft row spacing
 12 gpm with 5,445 ft of drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	215.00	1.0000	215.00	_____
Barb Lock Sleeve	1/4"	0.50	30.0000	15.00	_____
Transfer Barb	1/4"	0.25	30.0000	7.50	_____
Feeder Tube	ft	0.07	50.0000	3.50	_____
Header Line 1 1/2"	ft	0.38	300.0000	114.00	_____
Adapter(Reg to Head)	1 1/2"	1.56	1.0000	1.56	_____
End Plug for Header	1 1/2"	1.55	1.0000	1.55	_____
Hose Clamp	1 1/2"	0.57	2.0000	1.14	_____
Pressure Regulator	12 PSI	35.00	1.0000	35.00	_____
PVC Female Adaptor	1 1/2"	3.65	1.0000	3.65	_____
Y Filter	1"	17.00	1.0000	17.00	_____
PVC Fitting (bush)	1 1/2"	1.38	1.0000	1.38	_____
PVC Fitting (adpt)	1 1/2"	0.85	1.0000	0.85	_____
Hole Punch	1/4"	3.00	1.0000	3.00	_____
Coupler	5/8"	0.75	4.0000	3.00	_____

TOTAL DIRECT EXPENSES				423.13	_____
TOTAL INTEREST				27.50	_____

TOTAL SPECIFIED EXPENSES				450.63	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on the last line of Table A and also as a fixed expense on Table B in an irrigated budget. A capital recovery charge of \$450.63 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 10. Estimated costs per acre
 Micro sprinkler system w/oval hose, 40'
 40 ft row spacing, approx. 10 gpm, with 1,089 row ft,
 Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Oval Hose 1" 21PSI	ft	0.15	1660.0000	249.00	_____
Micro Tubing	ft	0.06	200.0000	12.00	_____
Stake, Micro-Spray	each	0.50	28.0000	14.00	_____
Connector(barbxbarb)	each	0.10	28.0000	2.80	_____
Micro Sprinkler	each	0.76	28.0000	21.28	_____
Dual Goof Plug	each	0.06	20.0000	1.20	_____
GD SS clamp	each	0.57	20.0000	11.40	_____
PVC insert Tee	each	1.34	4.0000	5.36	_____
3/4PVCIns Male Adapt	each	1.42	4.0000	5.68	_____
Flush Valve	each	1.09	4.0000	4.36	_____
MPT Tank Valve	each	2.00	2.0000	4.00	_____
Shrader Vlv Cap	each	3.00	1.0000	3.00	_____
MPT Flow Meter	each	67.50	1.0000	67.50	_____
Quick Punch	each	3.00	1.0000	3.00	_____
Pr-Pmr 20 PSI	each	12.00	1.0000	12.00	_____
PVC insert plug	each	1.12	1.0000	1.12	_____
PVC Ins Male Adapt	each	0.55	1.0000	0.55	_____
Venturi Kit	each	85.00	1.0000	85.00	_____
Service Unit	each	45.00	1.0000	45.00	_____
12 Model R	each	65.47	1.0000	65.47	_____
24 Model R	each	70.65	1.0000	70.65	_____
MPT Tagline Filter	each	17.00	1.0000	17.00	_____
Pocket Pressure Gage	each	5.00	1.0000	5.00	_____

TOTAL DIRECT EXPENSES (EVERY 10 YEARS)				706.37	_____
TOTAL INTEREST OVER 10 YEARS				276.23	_____

TOTAL SPECIFIED EXPENSES				982.60	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on the last line of Table A and also as a fixed expense on Table B in an irrigated budget. A capital recovery charge of \$98.26 will appear in the budget to represent the annual ownership cost of these items over a 10 year period. Additional irrigation inputs(such as rural water, drip tape,and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 11. Estimated costs per acre
 Drip tape irrigation system w/intergrated emitters, 12'
 12 ft row spacing, approx. 10 gpm, with 3,630 row ft,
 Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Signature 18mm.42gph	ft	0.18	4000.0000	720.00	_____
Hose 26mm	ft	0.20	250.0000	50.00	_____
LE Autoflush end	each	1.50	20.0000	30.00	_____
Adapter 7mm & 16mm	each	0.54	20.0000	10.80	_____
Dual Goof Plug	each	0.06	20.0000	1.20	_____
Coupler 16mm	each	0.50	5.0000	2.50	_____
MPT Tank Valve	each	2.00	2.0000	4.00	_____
MPT Tagline Filter	each	17.00	1.0000	17.00	_____
PR-PMR 30 PSI	each	12.00	1.0000	12.00	_____
MPT M Adptr	each	1.37	1.0000	1.37	_____
Figure 8	each	0.50	1.0000	0.50	_____
MPT Flow Meter	each	67.50	1.0000	67.50	_____
Pocket Pressure Gage	each	5.00	1.0000	5.00	_____
Shrader Vlv Cap	each	3.00	1.0000	3.00	_____
Venturi Kit	each	85.00	1.0000	85.00	_____
Service Unit	each	45.00	1.0000	45.00	_____
12 Model R	each	65.47	1.0000	65.47	_____
24 Model R	each	70.65	1.0000	70.65	_____
INTEREST ON OP. CAP.	acre	31.27	1.0000	31.27	_____

TOTAL DIRECT EXPENSES (EVERY 7 YEARS)				1222.26	_____
TOTAL INTEREST OVER 7 YEARS				337.69	_____

TOTAL SPECIFIED EXPENSES				1559.95	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on
 the last line of Table A and also as a fixed expense on Table B in
 an irrigated budget. A capital recovery charge of \$222.85 will
 appear in the budget to represent the annual ownership cost of these
 items over a 7 year period. Additional irrigation inputs (such as rural
 water, drip tape, and plastic mulch) are not included in this table, but
 are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 12. Estimated costs per acre
 Drip tape irrigation system w/intergrated emitters, 20'
 20 ft row spacing, approx. 10 gpm, with 2,178 row ft,
 Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Signiture 18mm.55gph	ft	0.18	3000.0000	555.00	_____
Hose 26mm	ft	0.20	250.0000	50.00	_____
LE Autoflush end	each	1.50	12.0000	18.00	_____
Adapter 7mm & 16mm	each	0.54	12.0000	6.48	_____
Dual Goof Plug	each	0.06	20.0000	1.20	_____
Coupler 16mm	each	0.50	5.0000	2.50	_____
MPT Tank Valve	each	2.00	2.0000	4.00	_____
MPT Tagline Filter	each	17.00	1.0000	17.00	_____
PR-PMR 30 PSI	each	12.00	1.0000	12.00	_____
MPT M Adptr	each	1.37	1.0000	1.37	_____
Figure 8	each	0.50	1.0000	0.50	_____
MPT Flow Meter	each	67.50	1.0000	67.50	_____
Pocket Pressure Gage	each	5.00	1.0000	5.00	_____
Shrader Vlv Cap	each	3.00	1.0000	3.00	_____
Venturi Kit20'x10gph	each	70.00	1.0000	70.00	_____
Service Unit	each	45.00	1.0000	45.00	_____
12 Model R	each	65.47	1.0000	65.47	_____
24 Model R	each	70.65	1.0000	70.65	_____

TOTAL DIRECT EXPENSES (EVERY & YEARS)				994.67	_____
TOTAL INTEREST OVER 7 YEARS				274.85	_____

TOTAL SPECIFIED EXPENSES				1269.52	_____

Note: Cost of production estimates are based on 2009 input prices.
 These items are grouped together and listed as Irrigation Setup on
 the last line of Table A and also as a fixed expense on Table B in
 an irrigated budget. A capital recovery charge of \$181.36 will
 appear in the budget to represent the annual ownership cost of these
 items over a 7 year period. Additional irrigation inputs(such as rural
 water, drip tape, and plastic mulch) are not included in this table, but
 are listed as individual inputs within each irrigated enterprise budget.

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