

**BLUEBERRY**

**2010**

**FRUIT AND NUT**

**PLANNING BUDGETS**

**Mississippi State University**  
**Department of Agricultural Economics**  
**Budget Report 2010-02**

**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.

### **Blueberry Production**

The user should consider the following assumptions when using the blueberry production enterprise budgets. These assumptions are based on the growing conditions and environment which best represent current production systems. To reduce site preparation costs, the field is established on previously cleared land. The life of an average blueberry bush is estimated at 12 years. The planting rate is 720 bushes per acre. Various rabbiteye (*Vaccinium ashei*) cultivars may be selected, including Tifblue, Climax, Vernon and Alapaha. This budget does not estimate costs of irrigation water.



## Enterprise Budgets

Table 1.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 1, site prep and plant  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----			
Site Preparation					1.00	Mar									
Site Prep w/Dozer	acre											1.0000	213.00	213.00	213.00
Disk Harrow	6ft	MFWD 50 hp	0.330	5.00	Mar	10.75	8.69	1.02	2.39	1.65	18.56				41.41
Pickup Limbs/Roots				1.00	Mar										
Trailer Utility Limb	10 ft	2WD 50 hp	4.000			25.52	17.72	0.58	2.19	4.00	44.92				90.93
Hand Labor	hour									4.00	35.68				35.68
Hand Labor	hour			1.00	Mar					0.60	5.35				5.35
Soil Test	each											1.0000	6.00	6.00	6.00
Soil Test Probe	each											1.0000	75.00	75.00	75.00
Mark of Rows				1.00	Mar										
Hand Labor	hour									2.00	17.84				17.84
Spray (Broadcast)				1.00	Mar										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Sub-Soiler	2 Shank	2WD 50 hp	0.404	1.00	Mar	2.58	1.79	0.97	2.66	0.40	4.54				12.54
Disk Bed (Hipper)	2-row	2WD 50 hp	0.284	2.00	Mar	3.63	2.52	0.40	1.72	0.56	6.38				14.65
Front End Loader	.5yd	2WD 75 hp	0.600	1.00	Mar	5.71	3.79	1.05	4.60	0.60	6.74				21.89
Incorporate Bark				1.00	Mar										
Trailer Utility	10 ft	2WD 50 hp	0.600			3.83	2.66	0.09	0.33	0.60	6.74				13.65
Hand Labor	hour									16.00	142.72				142.72
Mulch - MS,AL,LA.	cu yd											271.0000	10.00	2710.00	2710.00
Rotary Tiller	5 ft	2WD 50 hp	0.970	2.00	Mar	12.38	8.60	5.08	6.55	1.94	21.80				54.41
Bd Shaper (Blue B.)	Bed 8ftctr	2WD 50 hp	0.808	1.00	Mar	5.16	3.58	1.42	4.56	0.80	9.08				23.80
Seed between Rows				1.00	Apr										
Chain Harrow	6 ft	2WD 50 hp	0.343			2.19	1.52	0.01	1.56	0.34	3.86				9.14
Hand Labor	hour									1.00	8.92				8.92
Grass Seed BB	lb											19.0000	4.70	89.30	89.30
Spot Spray				2.00	Jul										
Sprayer - Utility	4 ft	4 x 4	0.250			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Roundup Weathermax	pt											4.0000	8.98	35.92	35.92
Spot Spray				2.00	Aug										
Sprayer - Utility	4 ft	4 x 4	0.250			1.22	3.25	0.06	0.35	0.50	5.62				10.50
Roundup Weathermax	pt											4.0000	8.98	35.92	35.92
Planting				1.00	Nov										
Trailer BB Plants	10ft	2WD 50 hp	2.000			12.76	8.86	0.29	1.10	2.00	22.46				45.47
Hand Labor	hour									24.00	214.08				214.08
Blueberry Plts M,A,L	each											720.0000	2.00	1440.00	1440.00
Pruner (Hand)	each											1.0000	45.00	45.00	45.00
Front End Loader	.5yd	2WD 75 hp	0.600	1.00	Nov	5.71	3.79	1.05	4.60	0.60	6.74				21.89
Mulching				1.00	Nov										
Trailer Utility	10 ft	2WD 50 hp	0.600			3.83	2.66	0.09	0.33	0.60	6.74				13.65
Hand Labor	hour									16.00	142.72				142.72
Mulch - MS,AL,LA.	cu yd											271.0000	10.00	2710.00	2710.00
TOTALS						97.10	74.30	12.20	33.46	78.96	739.92			7378.10	8335.08
INTEREST ON OPERATING CAPITAL															138.40
UNALLOCATED LABOR															34.52
TOTAL SPECIFIED COST															8508.00

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

Table 1.B Estimated costs per acre  
 Blueberry, year 1, site prep and plant  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Site Prep w/Dozer	acre	213.00	1.0000	213.00	_____
HERBICIDE					
Roundup Weathermax	pt	8.98	10.0000	89.80	_____
SEED/PLANTS					
Grass Seed BB	lb	4.70	19.0000	89.30	_____
Blueberry Plts M,A,L	each	2.00	720.0000	1440.00	_____
OTHER					
Soil Test	each	6.00	1.0000	6.00	_____
Soil Test Probe	each	75.00	1.0000	75.00	_____
Mulch - MS,AL,LA.	cu yd	10.00	542.0000	5420.00	_____
Pruner (Hand)	each	45.00	1.0000	45.00	_____
Operator Labor					
Tractors	hour	11.23	15.3690	172.61	_____
Hand Labor					
Special Labor	hour	8.92	63.6000	567.31	_____
UNALLOCATED LABOR	hour	11.23	3.0738	34.52	_____
DIESEL FUEL					
Tractors	gal	2.22	37.8808	84.09	_____
GASOLINE					
Tractors	gal	2.47	0.7500	1.85	_____
REPAIR & MAINTENANCE					
Implements	acre	12.20	1.0000	12.20	_____
Tractors	acre	11.16	1.0000	11.16	_____
INTEREST ON OP. CAP.	acre	138.40	1.0000	138.40	_____
TOTAL DIRECT EXPENSES				8400.24	_____
FIXED EXPENSES					
Implements	acre	33.46	1.0000	33.46	_____
Tractors	acre	74.30	1.0000	74.30	_____
TOTAL FIXED EXPENSES				107.76	_____
TOTAL SPECIFIED EXPENSES				8508.00	_____

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  
 Blueberry, year 2  
 Irrigated, 12 ft spacing, 10gpm, 3630 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 HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.39	3.75	2.11	9.02	0.84	9.50				29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60	3.60
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Apr										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray				1.00	Apr										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Spot Spray				1.00	May										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				3.00	May										
Irrigation Labor	hour									1.50	13.38				13.38
Mow between Rows				2.00	May										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray				1.00	Jun										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				4.00	Jun										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jun										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50				29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60	3.60
Spot Spray				1.00	Jul										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Pruning Blueberries				1.00	Jul										
Hand Labor	hour									2.00	17.84				17.84
Irrigate & Check				4.00	Jul										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jul										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray				1.00	Aug										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				4.00	Aug										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Aug										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45

(continued)

Table 2.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 2  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spot Spray				1.00	Sep											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	Sep											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	Sep											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spray (Broadcast)				1.00	Oct											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Dervinol 50DF	lb											4.0000	8.72	34.88		34.88
Princep 4L	gal											0.5000	25.44	12.72		12.72
Replant Blueberries				1.00	Nov											
Hand Labor	hour									2.00	17.84					17.84
Blueberry Plts M,A,L each												15.0000	2.00	30.00		30.00
Prorated Establish.	acre				Jan							1.0000				904.85
Irrigation Setup	acre				Jan							1.0000				222.86
TOTALS						28.07	27.84	11.09	24.45	20.47	195.27				192.56	1606.99
INTEREST ON OPERATING CAPITAL																7.84
UNALLOCATED LABOR																12.28
TOTAL SPECIFIED COST																1627.11

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  
 Blueberry, year 2  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft, drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
HERBICIDE					
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
Dervinol 50DF	lb	8.72	4.0000	34.88	_____
Princep 4L	gal	25.44	0.5000	12.72	_____
SEED/PLANTS					
Blueberry Plts M,A,L	each	2.00	15.0000	30.00	_____
Operator Labor					
Tractors	hour	11.23	5.4743	61.47	_____
Hand Labor					
Special Labor	hour	8.92	4.0000	35.68	_____
Irrigation Labor					
Special Labor	hour	8.92	11.0000	98.12	_____
UNALLOCATED LABOR	hour	11.21	1.0948	12.28	_____
DIESEL FUEL					
Tractors	gal	2.22	9.5850	21.30	_____
GASOLINE					
Tractors	gal	2.47	1.0500	2.59	_____
REPAIR & MAINTENANCE					
Implements	acre	11.09	1.0000	11.09	_____
Tractors	acre	4.18	1.0000	4.18	_____
INTEREST ON OP. CAP.	acre	7.84	1.0000	7.84	_____
TOTAL DIRECT EXPENSES				447.11	_____
FIXED EXPENSES					
Implements	acre	24.45	1.0000	24.45	_____
Tractors	acre	27.84	1.0000	27.84	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
TOTAL FIXED EXPENSES				1180.00	_____
TOTAL SPECIFIED EXPENSES				1627.11	_____

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  
 Blueberry, year 3  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spray (Broadcast)				1.00	Mar											
Sprayer - Utility Princep 4L	4 ft gal	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.39	3.75	2.11	9.02	0.84	9.50	1.0000	25.44	25.44		25.44
Fert 13-13-13	cwt											0.3000	12.00	3.60		3.60
Front End Loader	.5yd	2WD 75 hp	0.600	1.00	Mar	5.71	3.79	1.05	4.60	0.60	6.74					21.89
Mulching				1.00	Mar											
Trailer Utility	10 ft	2WD 50 hp	0.600			3.83	2.66	0.09	0.33	0.60	6.74					13.65
Hand Labor	hour									8.00	71.36					71.36
Mulch - MS,AL,LA.	cu yd											90.0000	10.00	900.00		900.00
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									1.00	8.92					8.92
Mow between Rows				2.00	Apr											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Apr											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Spot Spray				1.00	May											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	May											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	May											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Jun											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Jun											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Jun											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50					29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60		3.60
Spot Spray				1.00	Jul											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Pruning Blueberries				1.00	Jul											
Hand Labor	hour									2.00	17.84					17.84
Irrigate & Check				4.00	Jul											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Jul											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45

(continued)

Table 3.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 3  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spot Spray				1.00	Aug											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Aug											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Aug											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Sep											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	Sep											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	Sep											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spray (Broadcast)				1.00	Oct											
Sprayer (BC & Wand)	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Dervinol 50DF	lb											4.0000	8.72	34.88		34.88
Princep 4L	gal											0.5000	25.44	12.72		12.72
Prorated Establish.	acre				Jan							1.0000				904.85
Irrigation Setup	acre				Jan							1.0000				222.86
TOTALS						38.22	35.91	12.26	29.55	26.92	256.16			1088.00		2587.81
INTEREST ON OPERATING CAPITAL																36.78
UNALLOCATED LABOR																15.54
TOTAL SPECIFIED COST																2640.13

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  
 Blueberry, year 3  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft,drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
HERBICIDE					
Princep 4L	gal	25.44	1.5000	38.16	_____
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
Dervinol 50DF	lb	8.72	4.0000	34.88	_____
OTHER					
Mulch - MS,AL,LA.	cu yd	10.00	90.0000	900.00	_____
Operator Labor					
Tractors	hour	11.23	6.9243	77.76	_____
Hand Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
Irrigation Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
UNALLOCATED LABOR	hour	11.22	1.3848	15.54	_____
DIESEL FUEL					
Tractors	gal	2.22	13.4454	29.87	_____
GASOLINE					
Tractors	gal	2.47	1.2000	2.96	_____
REPAIR & MAINTENANCE					
Implements	acre	12.26	1.0000	12.26	_____
Tractors	acre	5.39	1.0000	5.39	_____
INTEREST ON OP. CAP.	acre	36.78	1.0000	36.78	_____
TOTAL DIRECT EXPENSES				1446.96	_____
FIXED EXPENSES					
Implements	acre	29.55	1.0000	29.55	_____
Tractors	acre	35.91	1.0000	35.91	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
TOTAL FIXED EXPENSES				1193.17	_____
TOTAL SPECIFIED EXPENSES				2640.13	_____

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  
 Blueberry, year 4, 1,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----			
Spray (Broadcast)				1.00	Mar										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Princep 4L	gal											1.0000	25.44	25.44	25.44
Indar 2F	oz											6.0000	1.80	10.80	10.80
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.39	3.75	2.11	9.02	0.84	9.50				29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60	3.60
Indar 2F	oz											6.0000	1.80	10.80	10.80
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									1.00	8.92				8.92
Mow between Rows				2.00	Apr										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray				1.00	Apr										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Spot Spray				1.00	May										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				3.00	May										
Irrigation Labor	hour									1.50	13.38				13.38
Harvest Blueberries				1.00	May										
Hand Labor	hour									72.00	642.24				642.24
Refrigeration-chill	month											1.0000	375.00	375.00	375.00
BBMktingFee MS,AL,La	lb											1800.0000	0.23	414.00	414.00
Spot Spray				1.00	Jun										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				4.00	Jun										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jun										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50				29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60	3.60
Spot Spray				1.00	Jul										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Pruning Blueberries				1.00	Jul										
Hand Labor	hour									2.00	17.84				17.84
Irrigate & Check				4.00	Jul										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jul										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45

(continued)

Table 4.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 4, 1,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spot Spray				1.00	Aug											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Aug											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Aug											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Sep											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	Sep											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	Sep											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spray (Broadcast)				1.00	Oct											
Sprayer (BC & Wand)	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Dervinol 50DF	lb											4.0000	8.72	34.88		34.88
Princep 4L	gal											0.5000	25.44	12.72		12.72
Prorated Establish.	acre				Jan							1.0000				904.85
Irrigation Setup	acre				Jan							1.0000				222.86
TOTALS						26.51	27.96	10.01	23.75	89.38	809.76			998.60		3024.30
INTEREST ON OPERATING CAPITAL																39.50
UNALLOCATED LABOR																12.08
TOTAL SPECIFIED COST																3075.88

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  
 Blueberry, year 4, 1,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft,drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
FUNGICIDE					
Indar 2F	oz	1.80	12.0000	21.60	_____
HERBICIDE					
Princep 4L	gal	25.44	1.5000	38.16	_____
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
Dervinol 50DF	lb	8.72	4.0000	34.88	_____
OTHER					
Refrigeration-chill	month	375.00	1.0000	375.00	_____
BBMktingFee MS,AL,La	lb	0.23	1800.0000	414.00	_____
Operator Labor					
Tractors	hour	11.23	5.3857	60.48	_____
Hand Labor					
Special Labor	hour	8.92	74.0000	660.08	_____
Irrigation Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
UNALLOCATED LABOR	hour	11.21	1.0771	12.08	_____
DIESEL FUEL					
Tractors	gal	2.22	8.7134	19.36	_____
GASOLINE					
Tractors	gal	2.47	1.2000	2.96	_____
REPAIR & MAINTENANCE					
Implements	acre	10.01	1.0000	10.01	_____
Tractors	acre	4.19	1.0000	4.19	_____
INTEREST ON OP. CAP.	acre	39.50	1.0000	39.50	_____
TOTAL DIRECT EXPENSES				1896.46	_____
FIXED EXPENSES					
Implements	acre	23.75	1.0000	23.75	_____
Tractors	acre	27.96	1.0000	27.96	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
TOTAL FIXED EXPENSES				1179.42	_____
TOTAL SPECIFIED EXPENSES				3075.88	_____

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  
 Blueberry, year 5, 4,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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 HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Spray (Broadcast)				1.00	Mar											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Princep 4L	gal											1.0000	25.44	25.44		25.44
Indar 2F	oz											6.0000	1.80	10.80		10.80
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.39	3.75	2.11	9.02	0.84	9.50					29.77
+Sprayer - Utility	4 ft		0.846					0.10	0.59							0.69
Fert 13-13-13	4 ft											0.3000	12.00	3.60		3.60
Indar 2F	cwt											6.0000	1.80	10.80		10.80
Indar 2F	oz															10.80
Front End Loader	.5yd	2WD 75 hp	0.600	1.00	Mar	5.71	3.79	1.05	4.60	0.60	6.74					21.89
Mulching				1.00	Mar											
Trailer Utility	10 ft	2WD 50 hp	0.600			3.83	2.66	0.09	0.33	0.60	6.74					13.65
Hand Labor	hour									8.00	71.36					71.36
Mulch - MS,AL,LA.	cu yd											90.0000	10.00	900.00		900.00
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									1.00	8.92					8.92
Mow between Rows				2.00	Apr											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Apr											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Spot Spray				1.00	May											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	May											
Irrigation Labor	hour									1.50	13.38					13.38
Harvest Blueberries				1.00	May											
Hand Labor	hour									192.00	1712.64					1712.64
Refrigeration-chill	month											1.0000	375.00	375.00		375.00
BBMktingFee MS,AL,La	lb											4800.0000	0.23	1104.00		1104.00
Spot Spray				1.00	Jun											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Jun											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Jun											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50					29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60		3.60
Spot Spray				1.00	Jul											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Pruning Blueberrys				1.00	Jul											
Hand Labor	hour									2.00	17.84					17.84

(continued)

Table 5.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 5, 4,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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 Irrigation Labor	hour			4.00	Jul					2.00	17.84				17.84
Mow between Rows Rotary Cutter	7 ft	2WD 50 hp	0.169	2.00	Jul										
Spot Spray Sprayer - Utility	4 ft	4 x 4	0.250	1.00	Aug	2.17	1.50	1.11	0.87	0.33	3.80				9.45
Roundup Weathermax	pt					0.61	1.62	0.03	0.17	0.25	2.81	2.0000	8.98	17.96	17.96
Irrigate & Check Irrigation Labor	hour			4.00	Aug					2.00	17.84				17.84
Mow between Rows Rotary Cutter	7 ft	2WD 50 hp	0.169	2.00	Aug	2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray Sprayer - Utility	4 ft	4 x 4	0.250	1.00	Sep	0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check Irrigation Labor	hour			3.00	Sep					1.50	13.38				13.38
Mow between Rows Rotary Cutter	7 ft	2WD 50 hp	0.169	2.00	Sep	2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spray (Broadcast) Sprayer (BC & Wand)	4 ft	4 x 4	0.250	1.00	Oct	0.61	1.62	0.03	0.17	0.25	2.81				5.24
Dervinol 50DF	lb											4.0000	8.72	34.88	34.88
Princep 4L	gal											0.5000	25.44	12.72	12.72
Prorated Establish.	acre				Jan							1.0000			904.85
Irrigation Setup	acre				Jan							1.0000			222.86
TOTALS						36.05	34.41	11.25	29.27	218.58	1965.00			2588.60	5792.29
INTEREST ON OPERATING CAPITAL															109.05
UNALLOCATED LABOR															14.78
TOTAL SPECIFIED COST															5916.12

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  
 Blueberry, year 5, 4,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft,drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
FUNGICIDE					
Indar 2F	oz	1.80	12.0000	21.60	_____
HERBICIDE					
Princep 4L	gal	25.44	1.5000	38.16	_____
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
Dervinol 50DF	lb	8.72	4.0000	34.88	_____
OTHER					
Mulch - MS,AL,LA.	cu yd	10.00	90.0000	900.00	_____
Refrigeration-chill	month	375.00	1.0000	375.00	_____
BBMktingFee MS,AL,La	lb	0.23	4800.0000	1104.00	_____
Operator Labor					
Tractors	hour	11.23	6.5857	73.96	_____
Hand Labor					
Special Labor	hour	8.92	202.0000	1801.84	_____
Irrigation Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
UNALLOCATED LABOR	hour	11.22	1.3171	14.78	_____
DIESEL FUEL					
Tractors	gal	2.22	12.5738	27.93	_____
GASOLINE					
Tractors	gal	2.47	1.2000	2.96	_____
REPAIR & MAINTENANCE					
Implements	acre	11.25	1.0000	11.25	_____
Tractors	acre	5.16	1.0000	5.16	_____
INTEREST ON OP. CAP.	acre	109.05	1.0000	109.05	_____
TOTAL DIRECT EXPENSES				4724.73	_____
FIXED EXPENSES					
Implements	acre	29.27	1.0000	29.27	_____
Tractors	acre	34.41	1.0000	34.41	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
TOTAL FIXED EXPENSES				1191.39	_____
TOTAL SPECIFIED EXPENSES				5916.12	_____

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  
 Blueberry -, year 6, 6,600 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spray (Broadcast)				1.00	Mar											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Princep 4L	gal											1.0000	25.44	25.44		25.44
Indar 2F	oz											6.0000	1.80	10.80		10.80
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.55	4.80	2.11	9.02	0.84	9.50					30.98
+Sprayer - Utility	4 ft		0.846					0.10	0.59							0.69
Fert 13-13-13	cwt											0.3000	12.00	3.60		3.60
Indar 2F	oz											6.0000	1.80	10.80		10.80
Irrigate & Check				2.00	Apr											
Irrigation Labor	hour									1.00	8.92					8.92
Mow between Rows				2.00	Apr											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Apr											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Spot Spray				1.00	May											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	May											
Irrigation Labor	hour									1.50	13.38					13.38
Harvest Blueberries				1.00	May											
Hand Labor	hour									264.00	2354.88					2354.88
Refrigeration-chill	month											1.0000	375.00	375.00		375.00
BBMktingFee MS,AL,La	lb											6600.0000	0.23	1518.00		1518.00
Spot Spray				1.00	Jun											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Jun											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Jun											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50					29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60		3.60
Spot Spray				1.00	Jul											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Pruning Blueberries				1.00	Jul											
Hand Labor	hour									2.00	17.84					17.84
Irrigate & Check				4.00	Jul											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Jul											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Aug											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Aug											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Aug											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45

(continued)

Table 6.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 6, 6,600 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spot Spray				1.00	Sep											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	Sep											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	Sep											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spray (Broadcast)				1.00	Oct											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Dervinol 50DF	lb											4.0000	8.72	34.88		34.88
Princep 4L	gal											0.5000	25.44	12.72		12.72
Prorated Establish.	acre				Jan							1.0000				904.85
Irrigation Setup	acre				Jan							1.0000				222.86
TOTALS						26.67	29.01	10.11	24.34	281.38	2522.40			2102.60		5842.84
INTEREST ON OPERATING CAPITAL																102.87
UNALLOCATED LABOR																12.08
TOTAL SPECIFIED COST																5957.79

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  
 Blueberry, year 6, 6,600 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft,drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
FUNGICIDE					
Indar 2F	oz	1.80	12.0000	21.60	_____
HERBICIDE					
Princep 4L	gal	25.44	1.5000	38.16	_____
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
Dervinol 50DF	lb	8.72	4.0000	34.88	_____
OTHER					
Refrigeration-chill	month	375.00	1.0000	375.00	_____
BEMktingFee MS,AL,La	lb	0.23	6600.0000	1518.00	_____
Operator Labor					
Tractors	hour	11.23	5.3857	60.48	_____
Hand Labor					
Special Labor	hour	8.92	266.0000	2372.72	_____
Irrigation Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
UNALLOCATED LABOR	hour	11.21	1.0771	12.08	_____
DIESEL FUEL					
Tractors	gal	2.22	8.7134	19.36	_____
GASOLINE					
Tractors	gal	2.47	1.2000	2.96	_____
REPAIR & MAINTENANCE					
Implements	acre	10.11	1.0000	10.11	_____
Tractors	acre	4.35	1.0000	4.35	_____
INTEREST ON OP. CAP.	acre	102.87	1.0000	102.87	_____
				-----	
TOTAL DIRECT EXPENSES				4776.73	_____
FIXED EXPENSES					
Implements	acre	24.34	1.0000	24.34	_____
Tractors	acre	29.01	1.0000	29.01	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
				-----	
TOTAL FIXED EXPENSES				1181.06	_____
				-----	
TOTAL SPECIFIED EXPENSES				5957.79	_____

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

**Fertilization decisions should be based on soil tests.**

Table 7.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 7, 7,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----			
Spray (Broadcast)				1.00	Mar										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Princep 4L	gal											1.0000	25.44	25.44	25.44
Indar 2F	oz											6.0000	1.80	10.80	10.80
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Mar	5.55	4.80	2.11	9.02	0.84	9.50				30.98
+Sprayer - Utility	4 ft		0.846					0.10	0.59						0.69
Fert 13-13-13	4 ft											0.3000	12.00	3.60	3.60
Indar 2F	cwt											6.0000	1.80	10.80	10.80
Indar 2F	oz														
Irrigate & Check				2.00	Apr										
Irrigation Labor	hour									1.00	8.92				8.92
Mow between Rows				2.00	Apr										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Spot Spray				1.00	Apr										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Spot Spray				1.00	May										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				3.00	May										
Irrigation Labor	hour									1.50	13.38				13.38
Harvest Blueberries				1.00	May										
Hand Labor	hour									312.00	2783.04				2783.04
Refrigeration-chill	month											1.0000	375.00	375.00	375.00
BBMktingFee MS,AL,La	lb											7800.0000	0.23	1794.00	1794.00
Spot Spray				1.00	Jun										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Irrigate & Check				4.00	Jun										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jun										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45
Side Dresser	1R 3ft	2WD 50 hp	0.846	1.00	Jul	5.39	3.75	2.11	9.02	0.84	9.50				29.77
Fert 13-13-13	cwt											0.3000	12.00	3.60	3.60
Spot Spray				1.00	Jul										
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81				5.24
Roundup Weathermax	pt											2.0000	8.98	17.96	17.96
Pruning Blueberries				1.00	Jul										
Hand Labor	hour									2.00	17.84				17.84
Irrigate & Check				4.00	Jul										
Irrigation Labor	hour									2.00	17.84				17.84
Mow between Rows				2.00	Jul										
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80				9.45

(continued)

Table 7.A Estimated resource use and costs for field operations, per acre  
 Blueberry, year 7, 7,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 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-----				
Spot Spray				1.00	Aug											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				4.00	Aug											
Irrigation Labor	hour									2.00	17.84					17.84
Mow between Rows				2.00	Aug											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Spot Spray				1.00	Sep											
Sprayer - Utility	4 ft	4 x 4	0.250			0.61	1.62	0.03	0.17	0.25	2.81					5.24
Roundup Weathermax	pt											2.0000	8.98	17.96		17.96
Irrigate & Check				3.00	Sep											
Irrigation Labor	hour									1.50	13.38					13.38
Mow between Rows				2.00	Sep											
Rotary Cutter	7 ft	2WD 50 hp	0.169			2.17	1.50	1.11	0.87	0.33	3.80					9.45
Prorated Establish.	acre				Jan							1.0000				904.85
Irrigation Setup	acre				Jan							1.0000				222.86
TOTALS						26.06	27.39	10.08	24.17	329.13	2947.75			2331.00		6494.16
INTEREST ON OPERATING CAPITAL																118.52
UNALLOCATED LABOR																11.52
TOTAL SPECIFIED COST																6624.20

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

Table 7.B Estimated costs per acre  
 Blueberry, year 7, 7,800 lb yield  
 Irrigated, 12 ft spacing, 10gpm, 3630 row ft,drip tape, Mississippi, 2010

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Fert 13-13-13	cwt	12.00	0.6000	7.20	_____
FUNGICIDE					
Indar 2F	oz	1.80	12.0000	21.60	_____
HERBICIDE					
Princep 4L	gal	25.44	1.0000	25.44	_____
Roundup Weathermax	pt	8.98	12.0000	107.76	_____
OTHER					
Refrigeration-chill	month	375.00	1.0000	375.00	_____
BBMktingFee MS,AL,La	lb	0.23	7800.0000	1794.00	_____
Operator Labor					
Tractors	hour	11.23	5.1357	57.67	_____
Hand Labor					
Special Labor	hour	8.92	314.0000	2800.88	_____
Irrigation Labor					
Special Labor	hour	8.92	10.0000	89.20	_____
UNALLOCATED LABOR	hour	11.21	1.0271	11.52	_____
DIESEL FUEL					
Tractors	gal	2.22	8.7134	19.36	_____
GASOLINE					
Tractors	gal	2.47	1.0500	2.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.08	1.0000	10.08	_____
Tractors	acre	4.11	1.0000	4.11	_____
INTEREST ON OP. CAP.	acre	118.52	1.0000	118.52	_____
TOTAL DIRECT EXPENSES				5444.93	_____
FIXED EXPENSES					
Implements	acre	24.17	1.0000	24.17	_____
Tractors	acre	27.39	1.0000	27.39	_____
Prorated Establish.	acre	904.85	1.0000	904.85	_____
Irrigation Setup	acre	222.86	1.0000	222.86	_____
TOTAL FIXED EXPENSES				1179.27	_____
TOTAL SPECIFIED EXPENSES				6624.20	_____

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	6.0	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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