

**TRADITIONAL  
AND ORGANIC  
VEGETABLES  
2008  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2007-08**

**December 2007**



## **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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# 2008 Planning Budgets

## Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for vegetable crops 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 vegetable planning budgets due to the volatile nature of prices in the fresh produce market. Budgets reflect the cost of production per acre planted. The budgets allow the producer to determine the breakeven price needed for the vegetable grown. A sensitivity table reflecting different yields per acre compared to different market prices received for vegetables allows producers to estimate potential net returns.

## 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 2007. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre. Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, 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 two labor categories: operator labor and hand labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment.

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 Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Fresh vegetable prices are volatile and change daily. Because of this, no estimates of expected returns are provided. Budget Table C shows breakeven price above total expenses and net returns for price/yield combinations on a per-acre basis.

### Estimates of Irrigation Costs

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

A non-irrigated vegetable budget can be converted to an irrigated budget by adding the desired irrigation system costs to the non-irrigated vegetable budget. 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.

## MALTAG State Coordinators

MALTAG is a multistate and multidisciplinary group formed in 2003. Its purpose is to jointly coordinate the development and dissemination of vegetable enterprise budgets to meet the needs of the vegetable industry in the Southeast.

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## Enterprise Budgets

Table 1.A Estimated resource use and costs for field operations, per acre  
 Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			1.00	Sep							0.3300	40.00	13.20	13.20
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Sep	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Oct	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Oct	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Fert 13-13-13	cwt											9.0000	12.00	108.00	108.00
Disk Bed	4 Row	2WD 75 hp	0.140	2.00	Oct	2.79	1.87	0.41	1.34	0.28	2.88				9.29
BS, L,T,Fung BPepper	6ftctr	2WD 75 hp	1.078	1.00	Oct	10.66	7.15	3.23	11.97	4.31	37.80				70.81
Plastic Mulch	roll											1.8000	162.00	291.60	291.60
Mythl Bromide 67/33	lb											200.0000	3.65	730.00	730.00
Drip Tape	roll											1.2000	156.00	187.20	187.20
Spray (Broadcast)	27'	2WD 75 hp	0.062	0.50	Nov	0.32	0.28	0.08	0.12	0.04	0.45				1.25
Goal 2XL	pt											1.2500	10.54	13.18	13.18
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.64	0.57	0.15	0.23	0.09	0.90				2.49
Gramoxone Max	pt											2.0000	5.09	10.18	10.18
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Mar	6.12	5.43	0.08	0.37	0.60	6.13				18.13
Pepper Plants	100plt											170.0000	7.98	1356.60	1356.60
Contract Plt BPepper	1000pl											17.0000	13.75	233.75	233.75
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigate CAN03/KN03				2.00	Mar										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Calcium Nitrate	lb											100.0000	0.20	20.00	20.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.64	0.57	0.15	0.23	0.09	0.90				2.49
Orthene 90 WSP	lb											0.6700	8.85	5.93	5.93
Kocide DF	lb											2.0000	3.42	6.84	6.84
Manzate 75 DF	lb											1.0000	2.61	2.61	2.61
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Calcium Nitrate	lb											100.0000	0.20	20.00	20.00
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Apr	6.12	5.43	0.08	0.37	0.60	6.13				18.13
HAND LABOR	hour									15.00	124.20				124.20
Wood Stakes	100											36.0000	15.00	540.00	540.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	2.00	Apr	1.28	1.13	0.31	0.46	0.18	1.80				4.98
Manzate 75 DF	lb											2.0000	2.61	5.22	5.22
Kocide DF	lb											4.0000	3.42	13.68	13.68
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Calcium Nitrate	lb											100.0000	0.20	20.00	20.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	2.00	May	1.28	1.13	0.31	0.46	0.18	1.80				4.98
Manzate 75 DF	lb											2.0000	2.61	5.22	5.22
Kocide DF	lb											4.0000	3.42	13.68	13.68
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Gramoxone Max	pt											1.5000	5.09	7.64	7.64

(continued)

Table 1.A Estimated resource use and costs for field operations, per acre  
 Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008 (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-----			
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Calcium Nitrate	lb											100.0000	0.20	20.00	20.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.64	0.57	0.15	0.23	0.09	0.90				2.49
Ridomil Gold EC	oz											16.0000	6.11	97.76	97.76
1st Tiewing DB String				1.00	May										
HAND LABOR	hour									8.00	66.24				66.24
Plastic string	6000ft											7.0000	8.00	56.00	56.00
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Calcium Nitrate	lb											100.0000	0.20	20.00	20.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.64	0.57	0.15	0.23	0.09	0.90				2.49
Lannate LV	pt											1.0000	7.10	7.10	7.10
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.64	0.57	0.15	0.23	0.09	0.90				2.49
Ambush 25WP	lb											1.0000	9.20	9.20	9.20
2nd Tiewing DB String				1.00	Jun										
HAND LABOR	hour									5.00	41.40				41.40
Plastic string	6000ft											5.0000	8.00	40.00	40.00
Cultivate	4 Row	2WD 75 hp	0.193	1.00	Jun	1.91	1.29	0.35	1.17	0.19	1.98				6.70
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Jun	6.12	5.43	0.08	0.37	0.60	6.13				18.13
HAND LABOR	hour									8.00	66.24				66.24
Harvest Labor Pepper	bu											1800.0000	0.70	1260.00	1260.00
15g tub Bell Pepper	each											30.0000	7.50	225.00	225.00
Bin Vegetable	each											8.0000	75.00	600.00	600.00
Pack Line B. Peppers				1.00	Jun										
GRADE & PACK LABOR	hour									80.00	662.40				662.40
Boxes-Waxed	each											1800.0000	1.32	2376.00	2376.00
Rotary Cutter	7 ft	2WD 75 hp	0.169	1.00	Jul	1.67	1.12	0.50	0.44	0.16	1.73				5.46
Take Up Reel (Mulch)	1 Row	2WD 75 hp	0.588	1.00	Jul	5.81	3.90	0.42	1.99	0.58	6.01				18.13
HAND LABOR	hour									12.00	99.36				99.36
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Jul	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Southern Peas - OP	lb											33.0000	3.00	99.00	99.00
Irrigation Setup	acre				Mar							1.0000			467.23
TOTALS						55.90	42.82	8.73	26.15	162.21	1353.88			8864.65	10819.36
INTEREST ON OPERATING CAPITAL															292.92
UNALLOCATED LABOR															11.42
TOTAL SPECIFIED COST															11123.70

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 1.B Estimated costs per acre

Bell pepper, fresh market (wholesale), irrigated

6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Contract Plt BPepper	1000pl	13.75	17.0000	233.75	_____
FERTILIZER					
Lime (Spread)	ton	40.00	0.3300	13.20	_____
Fert 13-13-13	cwt	12.00	9.0000	108.00	_____
Calcium Nitrate	lb	0.20	500.0000	100.00	_____
FUNGICIDE					
Kocide DF	lb	3.42	10.0000	34.20	_____
Manzate 75 DF	lb	2.61	5.0000	13.05	_____
Ridomil Gold EC	oz	6.11	16.0000	97.76	_____
HERBICIDE					
Goal 2XL	pt	10.54	1.2500	13.18	_____
Gramoxone Max	pt	5.09	3.5000	17.81	_____
INSECTICIDE					
Orthene 90 WSP	lb	8.85	0.6700	5.93	_____
Lannate LV	pt	7.10	1.0000	7.10	_____
Ambush 25WP	lb	9.20	1.0000	9.20	_____
SEED/PLANTS					
Pepper Plants	100plt	7.98	170.0000	1356.60	_____
Southern Peas - OP	lb	3.00	33.0000	99.00	_____
OTHER					
Plastic Mulch	roll	162.00	1.8000	291.60	_____
Mythl Bromide 67/33	lb	3.65	200.0000	730.00	_____
Wood Stakes	100	15.00	36.0000	540.00	_____
Plastic string	6000ft	8.00	12.0000	96.00	_____
Harvest Labor Pepper	bu	0.70	1800.0000	1260.00	_____
15g tub Bell Pepper	each	7.50	30.0000	225.00	_____
Bin Vegetable	each	75.00	8.0000	600.00	_____
Boxes-Waxed	each	1.32	1800.0000	2376.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.2000	187.20	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	5.5802	56.98	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	80.0000	662.40	_____
HAND LABOR					
Special Labor	hour	8.28	48.0000	397.44	_____
Implements	hour	8.28	3.6299	30.06	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	25.0000	207.00	_____
UNALLOCATED LABOR	hour	10.23	1.1160	11.42	_____
DIESEL FUEL					
Tractors	gal	2.33	21.5419	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	8.73	1.0000	8.73	_____
Tractors	acre	5.73	1.0000	5.73	_____
INTEREST ON OP. CAP.	acre	292.92	1.0000	292.92	_____
TOTAL DIRECT EXPENSES				10587.50	_____
FIXED EXPENSES					
Implements	acre	26.15	1.0000	26.15	_____
Tractors	acre	42.82	1.0000	42.82	_____
Irrigation Setup	acre	467.23	1.0000	467.23	_____
TOTAL FIXED EXPENSES				536.20	_____
TOTAL SPECIFIED EXPENSES				11123.70	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 1.C Estimated monthly income and expense flows per acre  
 Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	0.00	233.75	0.00	0.00	0.00	0.00	0.00
FERTILIZER	13.20	108.00	0.00	0.00	0.00	0.00	20.00	40.00	40.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.35	116.66	0.00	0.00	0.00
HERBICIDE	0.00	0.00	13.18	0.00	0.00	0.00	10.18	0.00	7.64	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.93	16.30	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	1356.60	0.00	0.00	0.00	99.00	0.00
OTHER	0.00	1021.60	0.00	0.00	0.00	0.00	0.00	540.00	56.00	4501.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	187.20	0.00	0.00	0.00	0.00	450.06	0.00	0.00	0.00	0.00	0.00
LABOR	2.42	46.91	0.51	0.00	0.00	0.00	49.79	217.45	157.37	779.78	111.07	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.78	14.78	0.28	0.00	0.00	0.00	5.96	7.09	4.55	7.14	8.59	0.00
REPAIR & MAINTENANCE	0.76	5.73	0.12	0.00	0.00	0.00	1.03	1.49	1.66	1.32	2.35	0.00
INTEREST ON OP. CAP.	1.46	100.94	0.92	0.00	0.00	0.00	77.56	24.51	8.78	77.14	1.61	0.00
TOTAL DIRECT EXPENSES	19.62	1485.16	15.01	0.00	0.00	0.00	2204.93	864.82	408.96	5366.38	222.62	0.00
NET INCOME	-19.62	-1485.16	-15.01	0.00	0.00	0.00	-2204.93	-864.82	-408.96	-5366.38	-222.62	0.00
NET INCOME TO DATE	-19.62	-1504.78	-1519.79	-1519.79	-1519.79	-1519.79	-3724.72	-4589.54	-4998.50	-10364.88	-10587.50	-10587.50

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 1.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Bell Pepper			4.56	4.79	5.06	5.37	5.73	6.17	6.71	7.38	8.25	9.40	11.02
PERCENT	YIELD	UNIT	-----dollars-----										
50	900.00	Bu	-5272	-5065	-4825	-4546	-4216	-3820	-3336	-2731	-1953	-915	536
			-5808	-5601	-5361	-5082	-4752	-4356	-3872	-3267	-2489	-1452	0
60	1080.00	Bu	-4691	-4442	-4155	-3820	-3424	-2949	-2368	-1642	-708	536	2278
			-5227	-4978	-4691	-4356	-3960	-3485	-2904	-2178	-1244	0	1742
70	1260.00	Bu	-4110	-3820	-3485	-3094	-2632	-2077	-1400	-552	536	1988	4021
			-4646	-4356	-4021	-3630	-3168	-2613	-1936	-1089	0	1452	3485
80	1440.00	Bu	-3529	-3197	-2814	-2368	-1840	-1206	-431	536	1780	3440	5764
			-4066	-3734	-3351	-2904	-2376	-1742	-968	0	1244	2904	5227
90	1620.00	Bu	-2949	-2575	-2144	-1642	-1047	-335	536	1625	3025	4892	7506
			-3485	-3111	-2680	-2178	-1584	-871	0	1089	2489	4356	6970
100	1800.00	Bu	-2368	-1953	-1474	-915	-255	536	1504	2714	4270	6344	9249
			-2904	-2489	-2010	-1452	-792	0	968	2178	3734	5808	8713
110	1980.00	Bu	-1787	-1330	-804	-189	536	1407	2472	3803	5515	7797	10991
			-2323	-1867	-1340	-726	0	871	1936	3267	4978	7260	10455
120	2160.00	Bu	-1206	-708	-134	536	1328	2278	3440	4892	6759	9249	12734
			-1742	-1244	-670	0	792	1742	2904	4356	6223	8713	12198
130	2340.00	Bu	-625	-86	536	1262	2120	3150	4408	5981	8004	10701	14477
			-1161	-622	0	726	1584	2613	3872	5445	7468	10165	13940
140	2520.00	Bu	-44	536	1206	1988	2912	4021	5376	7070	9249	12153	16219
			-580	0	670	1452	2376	3485	4840	6534	8713	11617	15683
150	2700.00	Bu	536	1158	1876	2714	3704	4892	6344	8160	10493	13605	17962
			0	622	1340	2178	3168	4356	5808	7623	9957	13069	17426

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.



Table 2.A Estimated resource use and costs for field operations, per acre  
 Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jul							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Aug	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Aug	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Aug	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Fert 13-13-13	cwt											8.0000	12.00	96.00	96.00
Disk + Incorporate	10 Ft	2WD 75 hp	0.206	1.00	Aug	2.04	1.37	0.98	2.15	0.30	2.96				9.50
Treflan HFP	pt											1.5000	2.35	3.53	3.53
Plntr/H2O Wheel	2 Row	2WD 75 hp	1.473	1.00	Aug	14.55	9.77	4.62	9.94	8.83	76.03				114.91
PLANTING LABOR	hour									30.00	248.40				248.40
Broccoli - Hybrid	thous											18.0000	34.65	623.70	623.70
Cult + Apply Ins	4 Row	2WD 75 hp	0.193	1.00	Aug	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Bravo Weather Stick	pt											1.5000	5.57	8.36	8.36
Diazion AG500	pt											1.0000	4.96	4.96	4.96
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Bravo Weather Stick	pt											1.5000	5.57	8.36	8.36
Dipel ES	pt											1.0000	4.04	4.04	4.04
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	Sep	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											2.3000	16.00	36.80	36.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Diazion AG500	pt											1.0000	4.96	4.96	4.96
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	Sep	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Bravo Weather Stick	pt											6.0000	5.57	33.42	33.42
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Nov	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Nov					125.00	1035.00				1035.00
Boxes-Waxed	each											300.0000	1.32	396.00	396.00
Ice + Cooling	box											300.0000	0.75	225.00	225.00
TOTALS						45.22	30.37	77.44	178.34	167.33	1394.34			1468.97	3194.68
INTEREST ON OPERATING CAPITAL															49.59
UNALLOCATED LABOR															9.35
TOTAL SPECIFIED COST															3253.62

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

Table 2.B Estimated costs per acre  
 Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	8.0000	96.00	_____
Amm Nitrate (34%)	cwt	16.00	2.3000	36.80	_____
FUNGICIDE					
Bravo Weather Stick	pt	5.57	9.0000	50.13	_____
HERBICIDE					
Treflan HFP	pt	2.35	1.5000	3.53	_____
INSECTICIDE					
Diazion AG500	pt	4.96	2.0000	9.92	_____
Dipel ES	pt	4.04	2.0000	8.08	_____
SEED/PLANTS					
Broccoli - Hybrid	thous	34.65	18.0000	623.70	_____
OTHER					
Boxes-Waxed	each	1.32	300.0000	396.00	_____
Ice + Cooling	box	0.75	300.0000	225.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.5770	46.75	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	7.7530	64.19	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	125.0000	1035.00	_____
UNALLOCATED LABOR	hour	10.21	0.9154	9.35	_____
DIESEL FUEL					
Tractors	gal	2.33	17.6692	41.17	_____
REPAIR & MAINTENANCE					
Implements	acre	77.44	1.0000	77.44	_____
Tractors	acre	4.05	1.0000	4.05	_____
INTEREST ON OP. CAP.	acre	49.59	1.0000	49.59	_____
TOTAL DIRECT EXPENSES				3044.91	_____
FIXED EXPENSES					
Implements	acre	178.34	1.0000	178.34	_____
Tractors	acre	30.37	1.0000	30.37	_____
TOTAL FIXED EXPENSES				208.71	_____
TOTAL SPECIFIED EXPENSES				3253.62	_____

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

Table 2.C Estimated monthly income and expense flows per acre  
 Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	96.00	36.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	8.36	41.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	4.96	9.00	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	623.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	342.59	21.24	3.01	1036.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	23.16	14.99	2.21	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	9.95	61.37	10.05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	32.44	4.05	0.28	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	1144.69	189.23	19.59	1670.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-1144.69	-189.23	-19.59	-1670.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-1165.21	-1354.44	-1374.03	-3044.91	-3044.91	-3044.91	-3044.91	-3044.91	-3044.91	-3044.91	-3044.91

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

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

\* Lease costs are based on hourly usage costs.

Table 2.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

Broccoli			-----BREAKEVEN PRICE-----										
			7.67	8.12	8.64	9.25	9.98	10.84	11.90	13.22	14.92	17.18	20.36
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	211b	-1694	-1626	-1548	-1456	-1348	-1218	-1060	-861	-606	-267	208
			-1903	-1835	-1756	-1665	-1557	-1427	-1268	-1070	-815	-475	0
60	180.00	211b	-1504	-1422	-1328	-1218	-1088	-933	-742	-504	-199	208	779
			-1712	-1631	-1537	-1427	-1297	-1141	-951	-713	-407	0	570
70	210.00	211b	-1313	-1218	-1108	-980	-829	-647	-425	-148	208	684	1350
			-1522	-1427	-1317	-1189	-1038	-856	-634	-356	0	475	1141
80	240.00	211b	-1123	-1014	-889	-742	-569	-362	-108	208	616	1160	1921
			-1332	-1223	-1097	-951	-778	-570	-317	0	407	951	1712
90	270.00	211b	-933	-810	-669	-504	-310	-76	208	565	1024	1636	2492
			-1141	-1019	-878	-713	-519	-285	0	356	815	1427	2283
100	300.00	211b	-742	-606	-450	-267	-50	208	525	922	1432	2111	3063
			-951	-815	-658	-475	-259	0	317	713	1223	1903	2854
110	330.00	211b	-552	-403	-230	-29	208	494	843	1279	1839	2587	3634
			-761	-611	-439	-237	0	285	634	1070	1631	2378	3425
120	360.00	211b	-362	-199	-10	208	468	779	1160	1636	2247	3063	4205
			-570	-407	-219	0	259	570	951	1427	2039	2854	3996
130	390.00	211b	-171	4	208	446	727	1065	1477	1992	2655	3539	4776
			-380	-203	0	237	519	856	1268	1784	2446	3330	4567
140	420.00	211b	18	208	428	684	987	1350	1794	2349	3063	4015	5347
			-190	0	219	475	778	1141	1585	2141	2854	3806	5138
150	450.00	211b	208	412	647	922	1246	1636	2111	2706	3471	4490	5918
			0	203	439	713	1038	1427	1903	2497	3262	4282	5709

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 3.A Estimated resource use and costs for field operations, per acre  
 Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Feb	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Fert 13-13-13	cwt											8.0000	12.00	96.00	96.00
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Feb	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Feb	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Feb	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											2.0000	2.35	4.70	4.70
Plntr/H2O Wheel	2 Row	2WD 75 hp	1.473	1.00	Feb	14.55	9.77	4.62	9.94	8.83	76.03				114.91
PLANTING LABOR	hour									30.00	248.40				248.40
Cabbage - Hybrid	thous											13.2000	31.27	412.76	412.76
Cultivate	4 Row	2WD 75 hp	0.193	3.00	Mar	5.75	3.86	1.06	3.50	0.58	5.94				20.11
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	5.00	Mar	12.13	8.14	49.16	110.62	1.22	12.53				192.58
Bravo Weather Stick	pt											7.5000	5.57	41.78	41.78
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	Mar	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Endosulfan 3E	pt											1.3300	3.06	4.07	4.07
Dipel ES	pt											1.0000	4.04	4.04	4.04
Side Dresser	2R 6ft	2WD 75 hp	0.423	1.00	Apr			2.34	11.08						13.42
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Endosulfan 3E	pt											1.3300	3.06	4.07	4.07
Dipel ES	pt											1.0000	4.04	4.04	4.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26
Dipel ES	pt											1.0000	4.04	4.04	4.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Confirm 2F	oz											24.0000	1.48	35.52	35.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29
Harv.Labor S.Cabbage	box			1.00	Jun							600.0000	1.35	810.00	810.00
Grd & Pack S.Cabbage	box			1.00	Jun							600.0000	1.40	840.00	840.00
Box Cabbage	each											600.0000	2.10	1260.00	1260.00
Marketing Fee	box			1.00	Jun							600.0000	1.00	600.00	600.00
CoolingBox S.Cabbage	box			1.00	Jun							600.0000	0.25	150.00	150.00
TOTALS						54.64	36.69	99.13	234.37	43.17	368.20			4331.12	5124.15
INTEREST ON OPERATING CAPITAL															66.73
UNALLOCATED LABOR															11.29
TOTAL SPECIFIED COST															5202.17

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

Table 3.B Estimated costs per acre  
Cabbage - spring, hand harvest  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	8.0000	96.00	_____
Amm Nitrate (34%)	cwt	16.00	2.0000	32.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	5.57	7.5000	41.78	_____
HERBICIDE					
Treflan HFP	pt	2.35	2.0000	4.70	_____
INSECTICIDE					
Endosulfan 3E	pt	3.06	2.6600	8.14	_____
Dipel ES	pt	4.04	4.0000	16.16	_____
Asana XL	oz	0.71	6.0000	4.26	_____
Confirm 2F	oz	1.48	24.0000	35.52	_____
SEED/PLANTS					
Cabbage - Hybrid	thous	31.27	13.2000	412.76	_____
OTHER					
Harv.Labor S.Cabbage	box	1.35	600.0000	810.00	_____
Grd & Pack S.Cabbage	box	1.40	600.0000	840.00	_____
Box Cabbage	each	2.10	600.0000	1260.00	_____
Marketing Fee	box	1.00	600.0000	600.00	_____
CoolingBox S.Cabbage	box	0.25	600.0000	150.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	5.5291	56.46	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	7.6498	63.34	_____
UNALLOCATED LABOR	hour	10.20	1.1058	11.29	_____
DIESEL FUEL					
Tractors	gal	2.33	21.3447	49.73	_____
REPAIR & MAINTENANCE					
Implements	acre	99.13	1.0000	99.13	_____
Tractors	acre	4.91	1.0000	4.91	_____
INTEREST ON OP. CAP.	acre	66.73	1.0000	66.73	_____
TOTAL DIRECT EXPENSES				4931.11	_____
FIXED EXPENSES					
Implements	acre	234.37	1.0000	234.37	_____
Tractors	acre	36.69	1.0000	36.69	_____
TOTAL FIXED EXPENSES				271.06	_____
TOTAL SPECIFIED EXPENSES				5202.17	_____

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

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

Table 3.C Estimated monthly income and expense flows per acre  
 Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	96.00	16.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	41.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	8.11	55.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	412.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	3660.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	340.25	25.35	3.01	9.03	1.85	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	22.07	18.01	2.21	6.63	0.81	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	8.48	52.90	12.39	30.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	32.25	4.50	0.91	1.48	26.72	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	916.51	158.54	42.63	103.26	3689.50	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-916.51	-158.54	-42.63	-103.26	-3689.50	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-937.18	-1095.72	-1138.35	-1241.61	-4931.11	-4931.11	-4931.11	-4931.11	-4931.11	-4931.11	-4931.11

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

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

\* Lease costs are based on hourly usage costs.

Table 3.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Cabbage			6.48	6.79	7.15	7.57	8.07	8.67	9.39	10.30	11.47	13.04	15.22
PERCENT	YIELD	UNIT	-----dollars-----										
50	300.00	50lb	-2350	-2257	-2149	-2023	-1874	-1695	-1476	-1203	-852	-384	271
			-2621	-2528	-2420	-2294	-2145	-1966	-1747	-1474	-1123	-655	0
60	360.00	50lb	-2088	-1976	-1846	-1695	-1516	-1302	-1039	-712	-290	271	1057
			-2359	-2247	-2117	-1966	-1787	-1573	-1310	-983	-561	0	786
70	420.00	50lb	-1826	-1695	-1544	-1367	-1159	-908	-602	-220	271	926	1844
			-2097	-1966	-1815	-1638	-1430	-1179	-873	-491	0	655	1573
80	480.00	50lb	-1564	-1414	-1241	-1039	-801	-515	-165	271	832	1582	2630
			-1835	-1685	-1512	-1310	-1072	-786	-436	0	561	1310	2359
90	540.00	50lb	-1302	-1133	-939	-712	-444	-122	271	762	1394	2237	3417
			-1573	-1404	-1210	-983	-715	-393	0	491	1123	1966	3146
100	600.00	50lb	-1039	-852	-636	-384	-86	271	708	1254	1956	2893	4204
			-1310	-1123	-907	-655	-357	0	436	983	1685	2621	3932
110	660.00	50lb	-777	-571	-334	-56	271	664	1145	1745	2518	3548	4990
			-1048	-842	-605	-327	0	393	873	1474	2247	3277	4719
120	720.00	50lb	-515	-290	-31	271	628	1057	1582	2237	3080	4204	5777
			-786	-561	-302	0	357	786	1310	1966	2809	3932	5506
130	780.00	50lb	-253	-9	271	598	986	1450	2019	2729	3642	4859	6563
			-524	-280	0	327	715	1179	1747	2458	3371	4588	6292
140	840.00	50lb	8	271	573	926	1343	1844	2456	3220	4204	5515	7350
			-262	0	302	655	1072	1573	2184	2949	3932	5243	7079
150	900.00	50lb	271	551	876	1254	1701	2237	2893	3712	4765	6170	8137
			0	280	605	983	1430	1966	2621	3441	4494	5899	7865

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.



Table 4.A Estimated resource use and costs for field operations, per acre  
 Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Mar							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Mar	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Mar	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Fert 13-13-13	cwt											6.0000	12.00	72.00	72.00
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk + Incorporate	10 Ft	2WD 75 hp	0.206	1.00	Apr	2.04	1.37	0.98	2.15	0.30	2.96				9.50
Diazion AG500	pt											6.0000	4.96	29.76	29.76
BS.lay/tape/Cucumber	4ftctr	2WD 75 hp	1.617	1.00	Apr	15.98	10.73	2.03	7.53	1.61	16.52				52.79
Plastic Mulch	roll											2.2000	162.00	356.40	356.40
Drip Tape	roll											1.5000	156.00	234.00	234.00
Plntr/H2O Cucumber	1R 4ftctr	2WD 75 hp	2.578	1.00	Apr	25.47	17.10	2.09	4.51	10.31	90.36				139.53
Cucumber - Hybrid	lb											3.0000	126.00	378.00	378.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Calcium Nitrate	lbs											50.0000	0.20	10.00	10.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.62	0.42	0.15	0.23	0.09	0.90				2.32
Sandea	oz											0.5000	40.03	20.02	20.02
Select 2EC	oz											6.0000	1.35	8.10	8.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Bravo Weather Stick	pt											6.0000	5.57	33.42	33.42
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Quadris	oz											15.4000	1.97	30.34	30.34
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Calcium Nitrate	lbs											50.0000	0.20	10.00	10.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Bravo Weather Stick	pt											3.0000	5.57	16.71	16.71
Asana XL	oz											6.0000	0.71	4.26	4.26
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Calcium Nitrate	lbs											50.0000	0.20	10.00	10.00
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00

(continued)

Table 4.A Estimated resource use and costs for field operations, per acre  
 Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008 (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-----			
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Bravo Weather Stick	pt											3.0000	5.57	16.71	16.71
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST LABOR	hour			1.00	Jun					120.00	993.60				993.60
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
Labor(Packing)	each											300.0000	0.75	225.00	225.00
Boxes-Waxed	each											300.0000	1.32	396.00	396.00
Plastic Clean Up				1.00	Jun										
Mulch Lifter	1 Row	2WD 75 hp	0.589			5.82	3.91	0.11	3.03	0.58	6.02				18.89
Labor Clean up	acre											1.0000	100.00	100.00	100.00
Irrigation Setup	acre				Apr							1.0000			471.30
TOTALS						72.79	48.88	75.38	175.33	143.32	1200.96			3039.10	5083.74
INTEREST ON OPERATING CAPITAL															60.99
UNALLOCATED LABOR															15.01
TOTAL SPECIFIED COST															5159.74

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 4.B Estimated costs per acre  
 Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	6.0000	72.00	_____
Calcium Nitrate	lbs	0.20	200.0000	40.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	5.57	12.0000	66.84	_____
Quadris	oz	1.97	15.4000	30.34	_____
HERBICIDE					
Sandea	oz	40.03	0.5000	20.02	_____
Select 2EC	oz	1.35	6.0000	8.10	_____
INSECTICIDE					
Diazion AG500	pt	4.96	6.0000	29.76	_____
Asana XL	oz	0.71	18.0000	12.78	_____
SEED/PLANTS					
Cucumber - Hybrid	lb	126.00	3.0000	378.00	_____
OTHER					
Plastic Mulch	roll	162.00	2.2000	356.40	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Labor(Packing)	each	0.75	300.0000	225.00	_____
Boxes-Waxed	each	1.32	300.0000	396.00	_____
Labor Clean up	acre	100.00	1.0000	100.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.5000	234.00	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.3655	75.22	_____
HARVEST LABOR					
Special Labor	hour	8.28	120.0000	993.60	_____
HAND LABOR					
Implements	hour	8.28	7.9588	65.90	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	8.0000	66.24	_____
UNALLOCATED LABOR	hour	10.18	1.4731	15.01	_____
DIESEL FUEL					
Tractors	gal	2.33	28.4341	66.26	_____
REPAIR & MAINTENANCE					
Implements	acre	75.38	1.0000	75.38	_____
Tractors	acre	6.53	1.0000	6.53	_____
INTEREST ON OP. CAP.	acre	60.99	1.0000	60.99	_____
TOTAL DIRECT EXPENSES				4464.23	_____
FIXED EXPENSES					
Implements	acre	175.33	1.0000	175.33	_____
Tractors	acre	48.88	1.0000	48.88	_____
Irrigation Setup	acre	471.30	1.0000	471.30	_____
TOTAL FIXED EXPENSES				695.51	_____
TOTAL SPECIFIED EXPENSES				5159.74	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 4.C Estimated monthly income and expense flows per acre  
 Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	91.80	10.00	20.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	33.42	47.05	16.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	28.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	34.02	4.26	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	378.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	356.40	0.00	1321.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	684.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.15	145.43	39.14	1025.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.52	46.79	4.42	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.61	39.35	20.10	20.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	3.04	38.41	1.96	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	107.12	1794.00	136.93	2426.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-107.12	-1794.00	-136.93	-2426.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-107.12	-1901.12	-2038.05	-4464.23	-4464.23	-4464.23	-4464.23	-4464.23	-4464.23	-4464.23	-4464.23	-4464.23

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 4.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Cucumbers			12.16	12.88	13.71	14.68	15.82	17.19	18.87	20.97	23.67	27.27	32.31
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	551b	-2327	-2219	-2094	-1949	-1777	-1571	-1319	-1004	-599	-60	695
			-3022	-2914	-2790	-2644	-2473	-2267	-2015	-1700	-1295	-755	0
60	180.00	551b	-2025	-1895	-1745	-1571	-1365	-1118	-815	-438	47	695	1602
			-2720	-2590	-2441	-2267	-2061	-1813	-1511	-1133	-647	0	906
70	210.00	551b	-1722	-1571	-1397	-1193	-953	-664	-312	128	695	1451	2509
			-2418	-2267	-2092	-1889	-1648	-1360	-1007	-566	0	755	1813
80	240.00	551b	-1420	-1247	-1048	-815	-541	-211	191	695	1343	2206	3416
			-2115	-1943	-1743	-1511	-1236	-906	-503	0	647	1511	2720
90	270.00	551b	-1118	-923	-699	-438	-128	242	695	1262	1990	2962	4322
			-1813	-1619	-1395	-1133	-824	-453	0	566	1295	2267	3627
100	300.00	551b	-815	-599	-350	-60	283	695	1199	1829	2638	3718	5229
			-1511	-1295	-1046	-755	-412	0	503	1133	1943	3022	4534
110	330.00	551b	-513	-276	-2	317	695	1148	1703	2395	3286	4474	6136
			-1209	-971	-697	-377	0	453	1007	1700	2590	3778	5441
120	360.00	551b	-211	47	346	695	1107	1602	2206	2962	3934	5229	7043
			-906	-647	-348	0	412	906	1511	2267	3238	4534	6347
130	390.00	551b	90	371	695	1073	1519	2055	2710	3529	4581	5985	7950
			-604	-323	0	377	824	1360	2015	2833	3886	5289	7254
140	420.00	551b	393	695	1044	1451	1932	2509	3214	4096	5229	6741	8857
			-302	0	348	755	1236	1813	2519	3400	4534	6045	8161
150	450.00	551b	695	1019	1393	1829	2344	2962	3718	4662	5877	7496	9763
			0	323	697	1133	1648	2267	3022	3967	5181	6801	9068

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 5.A Estimated resource use and costs for field operations, per acre  
Greens (turnip, mustard, collards), fresh market  
Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Aug	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Aug	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Aug	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Fert 13-13-13	cwt											6.0000	12.00	72.00	72.00
Disk + Incorporate	10 Ft	2WD 75 hp	0.206	1.00	Aug	2.04	1.37	0.98	2.15	0.30	2.96				9.50
Treflan HFP	pt											1.5000	2.35	3.53	3.53
Cultipacker	12 Ft	2WD 75 hp	0.124	1.00	Aug	1.23	0.83	0.10	0.17	0.12	1.27				3.60
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Sep	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Greens - Hybrid	lb											3.3000	73.00	240.90	240.90
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Sep	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Sep	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Kocide DF	lb											6.0000	3.42	20.52	20.52
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Sep	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Malathion 5E	pt											4.0000	3.18	12.72	12.72
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Stacking Bins	each			1.00	Oct							20.0000	2.00	40.00	40.00
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Oct	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Oct					175.00	1449.00				1449.00
Boxes-Waxed	each			1.00	Oct							500.0000	1.32	660.00	660.00
Cooling Box - Greens box												500.0000	0.25	125.00	125.00
TOTALS						30.40	20.41	68.17	153.14	178.26	1482.01			1214.51	2968.64
INTEREST ON OPERATING CAPITAL															26.02
UNALLOCATED LABOR															6.26
TOTAL SPECIFIED COST															3000.92

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

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

Table 5.B Estimated costs per acre  
Greens (turnip, mustard, collards), fresh market  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	6.0000	72.00	_____
Amm Nitrate (34%)	cwt	16.00	1.0000	16.00	_____
FUNGICIDE					
Kocide DF	lb	3.42	6.0000	20.52	_____
HERBICIDE					
Treflan HFP	pt	2.35	1.5000	3.53	_____
INSECTICIDE					
Malathion 5E	pt	3.18	4.0000	12.72	_____
Dipel ES	pt	4.04	1.0000	4.04	_____
SEED/PLANTS					
Greens - Hybrid	lb	73.00	3.3000	240.90	_____
OTHER					
Stacking Bins	each	2.00	20.0000	40.00	_____
Boxes-Waxed	each	1.32	500.0000	660.00	_____
Cooling Box - Greens	box	0.25	500.0000	125.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	3.0758	31.41	_____
HAND LABOR					
Implements	hour	8.28	0.1931	1.60	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	175.0000	1449.00	_____
UNALLOCATED LABOR	hour	10.17	0.6151	6.26	_____
DIESEL FUEL					
Tractors	gal	2.33	11.8740	27.69	_____
REPAIR & MAINTENANCE					
Implements	acre	68.17	1.0000	68.17	_____
Tractors	acre	2.71	1.0000	2.71	_____
INTEREST ON OP. CAP.	acre	26.02	1.0000	26.02	_____
TOTAL DIRECT EXPENSES				2827.37	_____
FIXED EXPENSES					
Implements	acre	153.14	1.0000	153.14	_____
Tractors	acre	20.41	1.0000	20.41	_____
TOTAL FIXED EXPENSES				173.55	_____
TOTAL SPECIFIED EXPENSES				3000.92	_____

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

Table 5.C Estimated monthly income and expense flows per acre  
Greens (turnip, mustard, collards), fresh market  
Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	0.00	0.00	0.00	0.00	0.00	72.00	16.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.52	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.53	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.72	4.04	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.90	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	825.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.49	20.92	1453.86	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.29	15.38	3.02	0.00	0.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	56.98	10.17	0.00	0.00
INTEREST ON OP. CAP.	1.44	0.00	0.00	0.00	0.00	0.00	0.00	2.24	5.60	16.74	0.00	0.00
TOTAL DIRECT EXPENSES	21.24	0.00	0.00	0.00	0.00	0.00	0.00	104.28	389.02	2312.83	0.00	0.00
NET INCOME	-21.24	0.00	0.00	0.00	0.00	0.00	0.00	-104.28	-389.02	-2312.83	0.00	0.00
NET INCOME TO DATE	-21.24	-21.24	-21.24	-21.24	-21.24	-21.24	-21.24	-125.52	-514.54	-2827.37	-2827.37	-2827.37

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

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

\* Lease costs are based on hourly usage costs.



Table 5.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Greens (turnip, mustard, collards), fresh market  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Greens (25lb)			4.44	4.66	4.92	5.22	5.57	6.00	6.52	7.16	8.00	9.11	10.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	250.00	2doz	-1383	-1328	-1264	-1189	-1100	-994	-864	-702	-493	-215	173
			-1557	-1501	-1437	-1362	-1274	-1168	-1038	-876	-667	-389	0
60	300.00	2doz	-1228	-1161	-1084	-994	-888	-760	-605	-410	-160	173	640
			-1401	-1334	-1257	-1168	-1061	-934	-778	-584	-333	0	467
70	350.00	2doz	-1072	-994	-904	-799	-675	-527	-345	-118	173	562	1107
			-1245	-1168	-1078	-973	-849	-700	-519	-292	0	389	934
80	400.00	2doz	-916	-827	-724	-605	-463	-293	-86	173	507	952	1575
			-1090	-1001	-898	-778	-637	-467	-259	0	333	778	1401
90	450.00	2doz	-760	-660	-545	-410	-251	-60	173	465	841	1341	2042
			-934	-834	-718	-584	-424	-233	0	292	667	1168	1868
100	500.00	2doz	-605	-493	-365	-215	-38	173	433	757	1174	1730	2509
			-778	-667	-539	-389	-212	0	259	584	1001	1557	2336
110	550.00	2doz	-449	-327	-185	-21	173	407	692	1049	1508	2120	2976
			-622	-500	-359	-194	0	233	519	876	1334	1946	2803
120	600.00	2doz	-293	-160	-6	173	385	640	952	1341	1842	2509	3444
			-467	-333	-179	0	212	467	778	1168	1668	2336	3270
130	650.00	2doz	-137	6	173	368	598	874	1211	1633	2175	2899	3911
			-311	-166	0	194	424	700	1038	1460	2002	2725	3737
140	700.00	2doz	17	173	353	562	810	1107	1471	1925	2509	3288	4378
			-155	0	179	389	637	934	1297	1752	2336	3114	4204
150	750.00	2doz	173	340	532	757	1023	1341	1730	2217	2843	3677	4845
			0	166	359	584	849	1168	1557	2044	2669	3504	4672

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 6.A Estimated resource use and costs for field operations, per acre  
 Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Jan	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Mar	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Amm Nitrate (34%)	cwt											1.5000	16.00	24.00	24.00
Phosphorus(46% P205)	cwt											1.5600	14.00	21.84	21.84
Potash (60% K20)	cwt											1.2000	13.00	15.60	15.60
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											1.5000	2.35	3.53	3.53
Diazion AG500	pt											1.0000	4.96	4.96	4.96
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Lima Bean - Hybrid	lb											30.0000	33.00	990.00	990.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Sevin XLR Plus	qt											1.0000	8.14	8.14	8.14
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	May	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Kocide DF	lb											8.8000	3.42	30.10	30.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Sevin XLR Plus	qt											2.0000	8.14	16.28	16.28
HARVEST LABOR	hour			1.00	Jun					136.00	1126.08				1126.08
5-Gal Bucket	each											40.0000	3.00	120.00	120.00
Sheller Lima Beans	each			1.00	Jun				8.42			0.0200			8.42
107/10 lb bg L/BBean	acre							0.24		9.00	74.52	1.0000			74.76
R.B.Convey LimaBeans	each			1.00	Jun				3.86			0.0200			3.86
Rot.PakTable L-Beans	each			1.00	Jun				3.41			0.0200			3.41
Application 1	acre							0.13		5.00	41.40	1.0000			41.53
Bag Sealer LimaBeans	each			1.00	Jun				1.11			0.0200			1.11
Application 1	acre							0.61		0.12	0.99	1.0000			1.60
TOTALS						27.83	18.70	68.78	173.02	153.20	1273.94			1270.25	2832.52
INTEREST ON OPERATING CAPITAL															37.85
UNALLOCATED LABOR															5.76
TOTAL SPECIFIED COST															2876.13

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

Table 6.B Estimated costs per acre  
 Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Amm Nitrate (34%)	cwt	16.00	2.5000	40.00	_____
Phosphorus(46% P205)	cwt	14.00	1.5600	21.84	_____
Potash (60% K20)	cwt	13.00	1.2000	15.60	_____
FUNGICIDE					
Kocide DF	lb	3.42	8.8000	30.10	_____
HERBICIDE					
Treflan HFP	pt	2.35	1.5000	3.53	_____
INSECTICIDE					
Diazion AG500	pt	4.96	1.0000	4.96	_____
Sevin XLR Plus	qt	8.14	3.0000	24.42	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	33.00	30.0000	990.00	_____
OTHER					
5-Gal Bucket	each	3.00	40.0000	120.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	2.8171	28.77	_____
HARVEST LABOR					
Special Labor	hour	8.28	136.0000	1126.08	_____
HAND LABOR					
Implements	hour	8.28	0.2643	2.18	_____
GRD LABOR LIMA BEANS					
Bag Sealer LimaBeans	hour	8.28	0.1200	0.99	_____
Rot.PakTable L-Beans	hour	8.28	5.0000	41.40	_____
Sheller Lima Beans	hour	8.28	9.0000	74.52	_____
UNALLOCATED LABOR	hour	10.22	0.5634	5.76	_____
DIESEL FUEL					
Tractors	gal	2.33	10.8754	25.33	_____
REPAIR & MAINTENANCE					
Implements	acre	67.80	1.0000	67.80	_____
Tractors	acre	2.50	1.0000	2.50	_____
Bag Sealer LimaBeans	acre	0.60	1.0000	0.61	_____
Rot.PakTable L-Beans	acre	0.12	1.0000	0.13	_____
Sheller Lima Beans	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	37.85	1.0000	37.85	_____
TOTAL DIRECT EXPENSES				2684.41	_____
FIXED EXPENSES					
Implements	acre	156.22	1.0000	156.22	_____
Tractors	acre	18.70	1.0000	18.70	_____
Bag Sealer LimaBeans	each	55.67	0.0200	1.11	_____
R.B.Convey LimaBeans	each	192.96	0.0200	3.86	_____
Rot.PakTable L-Beans	each	170.48	0.0200	3.41	_____
Sheller Lima Beans	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				191.72	_____
TOTAL SPECIFIED EXPENSES				2876.13	_____

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

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

Table 6.C Estimated monthly income and expense flows per acre  
 Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	61.44	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.96	24.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	0.00	4.73	8.04	21.24	1242.99	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	0.00	3.05	5.31	14.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	0.00	1.08	7.12	61.37	0.98	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.11	0.00	2.04	22.30	2.45	9.95	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	26.32	0.00	72.34	1041.26	170.57	1373.92	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-26.32	0.00	-72.34	-1041.26	-170.57	-1373.92	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-26.32	-26.32	-98.66	-1139.92	-1310.49	-2684.41	-2684.41	-2684.41	-2684.41	-2684.41	-2684.41	-2684.41

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

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

\* Lease costs are based on hourly usage costs.

Table 6.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			17.91	19.19	20.67	22.39	24.43	26.87	29.86	33.59	38.39	44.79	53.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	53.50	10lb	-1725	-1657	-1578	-1486	-1377	-1246	-1086	-886	-630	-287	191
			-1917	-1848	-1769	-1677	-1568	-1438	-1278	-1078	-821	-479	0
60	64.20	10lb	-1533	-1451	-1356	-1246	-1115	-958	-766	-527	-219	191	766
			-1725	-1643	-1548	-1438	-1307	-1150	-958	-719	-410	0	575
70	74.90	10lb	-1342	-1246	-1135	-1006	-854	-671	-447	-167	191	671	1342
			-1533	-1438	-1327	-1198	-1045	-862	-639	-359	0	479	1150
80	85.60	10lb	-1150	-1040	-914	-766	-592	-383	-127	191	602	1150	1917
			-1342	-1232	-1106	-958	-784	-575	-319	0	410	958	1725
90	96.30	10lb	-958	-835	-693	-527	-331	-95	191	551	1013	1629	2492
			-1150	-1027	-884	-719	-522	-287	0	359	821	1438	2300
100	107.00	10lb	-766	-630	-472	-287	-69	191	511	910	1424	2109	3067
			-958	-821	-663	-479	-261	0	319	719	1232	1917	2876
110	117.70	10lb	-575	-424	-250	-47	191	479	830	1270	1835	2588	3643
			-766	-616	-442	-239	0	287	639	1078	1643	2396	3451
120	128.40	10lb	-383	-219	-29	191	453	766	1150	1629	2246	3067	4218
			-575	-410	-221	0	261	575	958	1438	2054	2876	4026
130	139.10	10lb	-191	-13	191	431	714	1054	1470	1989	2656	3547	4793
			-383	-205	0	239	522	862	1278	1797	2465	3355	4601
140	149.80	10lb	-0	191	412	671	976	1342	1789	2348	3067	4026	5368
			-191	0	221	479	784	1150	1597	2157	2876	3834	5177
150	160.50	10lb	191	397	634	910	1237	1629	2109	2708	3478	4505	5943
			0	205	442	719	1045	1438	1917	2516	3287	4314	5752

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 7.A Estimated resource use and costs for field operations, per acre  
 Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Jan	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Mar	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Amm Nitrate (34%)	cwt											1.5000	16.00	24.00	24.00
Phosphorus(46% P205)	cwt											1.5600	14.00	21.84	21.84
Potash (60% K20)	cwt											1.2000	13.00	15.60	15.60
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											1.5000	2.35	3.53	3.53
Diazion AG500	pt											1.0000	4.96	4.96	4.96
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Lima Bean - Hybrid	lb											30.0000	33.00	990.00	990.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Sevin XLR Plus	qt											1.0000	8.14	8.14	8.14
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	May	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Kocide DF	lb											8.8000	3.42	30.10	30.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Sevin XLR Plus	qt											2.0000	8.14	16.28	16.28
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	Jun	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Trailer-Lima/B. Bean	16 ft	2WD 75 hp	3.571	1.00	Jun	35.28	23.68	1.86	4.01	7.14	66.03				130.86
LABOR BEAN TRAILER	hour														29.64
Sheller Lima Beans	each			1.00	Jun				8.42			0.0200			8.42
65/10 lb bg L/BBean	acre							0.24		9.00	74.52	1.0000			74.76
R.B.Convey LimaBeans	each			1.00	Jun				3.86			0.0200			3.86
Rot.PakTable L-Beans	each			1.00	Jun				3.41			0.0200			3.41
Application 1	acre							0.13		5.00	41.40	1.0000			41.53
Bag Sealer LimaBeans	each			1.00	Jun				1.11			0.0200			1.11
Application 1	acre							0.61		0.12	0.99	1.0000			1.60
TOTALS						98.39	66.06	110.86	225.87	38.63	339.13			1150.25	1990.56
INTEREST ON OPERATING CAPITAL															31.09
UNALLOCATED LABOR															20.34
TOTAL SPECIFIED COST															2041.99

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

Table 7.B Estimated costs per acre  
 Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Amm Nitrate (34%)	cwt	16.00	2.5000	40.00	_____
Phosphorus(46% P205)	cwt	14.00	1.5600	21.84	_____
Potash (60% K20)	cwt	13.00	1.2000	15.60	_____
FUNGICIDE					
Kocide DF	lb	3.42	8.8000	30.10	_____
HERBICIDE					
Treflan HFP	pt	2.35	1.5000	3.53	_____
INSECTICIDE					
Diazion AG500	pt	4.96	1.0000	4.96	_____
Sevin XLR Plus	qt	8.14	3.0000	24.42	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	33.00	30.0000	990.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	9.9600	101.69	_____
HAND LABOR					
Implements	hour	8.28	10.9786	90.89	_____
LABOR BEAN TRAILER					
Special Labor	hour	8.28	3.5800	29.64	_____
GRD LABOR LIMA BEANS					
Bag Sealer LimaBeans	hour	8.28	0.1200	0.99	_____
Rot.PakTable L-Beans	hour	8.28	5.0000	41.40	_____
Sheller Lima Beans	hour	8.28	9.0000	74.52	_____
UNALLOCATED LABOR	hour	10.21	1.9920	20.34	_____
DIESEL FUEL					
Tractors	gal	2.33	38.4497	89.57	_____
REPAIR & MAINTENANCE					
Implements	acre	109.88	1.0000	109.88	_____
Tractors	acre	8.82	1.0000	8.82	_____
Bag Sealer LimaBeans	acre	0.60	1.0000	0.61	_____
Rot.PakTable L-Beans	acre	0.12	1.0000	0.13	_____
Sheller Lima Beans	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	31.09	1.0000	31.09	_____
TOTAL DIRECT EXPENSES				1750.06	_____
FIXED EXPENSES					
Implements	acre	209.07	1.0000	209.07	_____
Tractors	acre	66.06	1.0000	66.06	_____
Bag Sealer LimaBeans	each	55.67	0.0200	1.11	_____
R.B.Convey LimaBeans	each	192.96	0.0200	3.86	_____
Rot.PakTable L-Beans	each	170.48	0.0200	3.41	_____
Sheller Lima Beans	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				291.93	_____
TOTAL SPECIFIED EXPENSES				2041.99	_____

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

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

Table 7.C Estimated monthly income and expense flows per acre  
 Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	61.44	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.96	24.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	0.00	4.73	8.04	21.24	322.76	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	0.00	3.05	5.31	14.99	64.24	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	0.00	1.08	7.12	61.37	49.38	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.11	0.00	2.04	22.30	2.45	3.19	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	26.32	0.00	72.34	1041.26	170.57	439.57	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-26.32	0.00	-72.34	-1041.26	-170.57	-439.57	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-26.32	-26.32	-98.66	-1139.92	-1310.49	-1750.06	-1750.06	-1750.06	-1750.06	-1750.06	-1750.06	-1750.06

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

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

\* Lease costs are based on hourly usage costs.



Table 7.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			20.94	22.43	24.16	26.17	28.55	31.41	34.90	39.26	44.87	52.35	62.83
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	101b	-1069	-1020	-964	-899	-821	-729	-615	-473	-291	-48	291
			-1361	-1312	-1256	-1191	-1113	-1020	-907	-765	-583	-340	0
60	39.00	101b	-933	-874	-807	-729	-636	-524	-388	-218	0	291	700
			-1225	-1166	-1099	-1020	-928	-816	-680	-510	-291	0	408
70	45.50	101b	-797	-729	-650	-558	-450	-320	-161	36	291	632	1108
			-1089	-1020	-942	-850	-742	-612	-453	-255	0	340	816
80	52.00	101b	-660	-583	-493	-388	-264	-116	65	291	583	972	1517
			-952	-875	-785	-680	-556	-408	-226	0	291	680	1225
90	58.50	101b	-524	-437	-336	-218	-79	87	291	547	875	1312	1925
			-816	-729	-628	-510	-371	-204	0	255	583	1020	1633
100	65.00	101b	-388	-291	-179	-48	106	291	518	802	1167	1653	2333
			-680	-583	-471	-340	-185	0	226	510	875	1361	2041
110	71.50	101b	-252	-145	-22	121	291	496	745	1057	1458	1993	2742
			-544	-437	-314	-170	0	204	453	765	1166	1701	2450
120	78.00	101b	-116	0	134	291	477	700	972	1312	1750	2333	3150
			-408	-291	-157	0	185	408	680	1020	1458	2041	2858
130	84.50	101b	19	146	291	462	663	904	1199	1568	2042	2674	3559
			-272	-145	0	170	371	612	907	1276	1750	2382	3267
140	91.00	101b	155	291	449	632	848	1108	1426	1823	2333	3014	3967
			-136	0	157	340	556	816	1134	1531	2041	2722	3675
150	97.50	101b	291	437	606	802	1034	1312	1653	2078	2625	3354	4375
			0	145	314	510	742	1020	1361	1786	2333	3062	4083

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 8.A Estimated resource use and costs for field operations, per acre  
Okra, fresh market  
Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Mar							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Mar	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Apr	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Amm Nitrate (34%)	cwt											0.7000	16.00	11.20	11.20
Phosphorus(46% P205)	cwt											1.5600	14.00	21.84	21.84
Potash (60% K20)	cwt											1.2000	13.00	15.60	15.60
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											1.5000	2.35	3.53	3.53
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Okra - Hybrid	lb											8.8000	150.00	1320.00	1320.00
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Cultivate	4 Row	2WD 75 hp	0.193	2.00	May	3.83	2.57	0.71	2.33	0.38	3.96				13.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Sevin XLR Plus	qt											4.0000	8.14	32.56	32.56
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											1.0000	16.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Sevin XLR Plus	qt											6.0000	8.14	48.84	48.84
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	12.00	Jun	10.67	7.16	0.50	1.09	2.16	19.97				39.39
HARVEST LABOR	hour			1.00	Jun					300.00	2484.00				2484.00
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
GRADE & PACK LABOR	hour			1.00	Jun					30.00	248.40				248.40
Boxes-Waxed	each											400.0000	1.32	528.00	528.00
TOTALS						43.77	29.40	60.67	144.76	335.87	2789.57			2633.37	5701.54
INTEREST ON OPERATING CAPITAL															62.54
UNALLOCATED LABOR															9.06
TOTAL SPECIFIED COST															5773.14

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

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

Table 8.B Estimated costs per acre  
Okra, fresh market  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Amm Nitrate (34%)	cwt	16.00	2.7000	43.20	_____
Phosphorus(46% P205)	cwt	14.00	1.5600	21.84	_____
Potash (60% K20)	cwt	13.00	1.2000	15.60	_____
HERBICIDE					
Treflan HFP	pt	2.35	1.5000	3.53	_____
INSECTICIDE					
Sevin XLR Plus	qt	8.14	10.0000	81.40	_____
SEED/PLANTS					
Okra - Hybrid	lb	150.00	8.8000	1320.00	_____
OTHER					
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Boxes-Waxed	each	1.32	400.0000	528.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.4314	45.25	_____
HARVEST LABOR					
Special Labor	hour	8.28	300.0000	2484.00	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	1.4412	11.92	_____
UNALLOCATED LABOR	hour	10.22	0.8862	9.06	_____
DIESEL FUEL					
Tractors	gal	2.33	17.1073	39.86	_____
REPAIR & MAINTENANCE					
Implements	acre	60.67	1.0000	60.67	_____
Tractors	acre	3.91	1.0000	3.91	_____
INTEREST ON OP. CAP.	acre	62.54	1.0000	62.54	_____
TOTAL DIRECT EXPENSES				5598.98	_____
FIXED EXPENSES					
Implements	acre	144.76	1.0000	144.76	_____
Tractors	acre	29.40	1.0000	29.40	_____
TOTAL FIXED EXPENSES				174.16	_____
TOTAL SPECIFIED EXPENSES				5773.14	_____

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

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

Table 8.C Estimated monthly income and expense flows per acre  
Okra, fresh market  
Mississippi, MALTAG, 2008

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	64.64	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	32.56	48.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	1320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	1128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.56	13.53	13.94	2763.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.55	8.32	9.65	16.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.24	8.51	22.22	31.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.03	31.05	1.38	29.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	36.18	1449.58	95.75	4017.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-36.18	-1449.58	-95.75	-4017.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-36.18	-1485.76	-1581.51	-5598.98	-5598.98	-5598.98	-5598.98	-5598.98	-5598.98	-5598.98	-5598.98	-5598.98

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

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

\* Lease costs are based on hourly usage costs.

Table 8.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Okra, fresh market  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Okra (US Fancy)			10.06	10.68	11.40	12.24	13.24	14.43	15.88	17.70	20.04	23.16	27.53
PERCENT	YIELD	UNIT	-----dollars-----										
50	200.00	30lb	-3320	-3195	-3051	-2883	-2684	-2446	-2155	-1791	-1323	-699	174
			-3494	-3369	-3225	-3057	-2858	-2620	-2329	-1965	-1497	-873	0
60	240.00	30lb	-2970	-2820	-2648	-2446	-2208	-1922	-1572	-1136	-574	174	1222
			-3144	-2995	-2822	-2620	-2382	-2096	-1747	-1310	-748	0	1048
70	280.00	30lb	-2621	-2446	-2244	-2009	-1731	-1398	-990	-481	174	1047	2270
			-2795	-2620	-2419	-2183	-1905	-1572	-1164	-655	0	873	2096
80	320.00	30lb	-2271	-2072	-1841	-1572	-1255	-874	-408	174	922	1921	3318
			-2445	-2246	-2015	-1747	-1429	-1048	-582	0	748	1747	3144
90	360.00	30lb	-1922	-1697	-1438	-1136	-778	-349	174	829	1671	2794	4367
			-2096	-1871	-1612	-1310	-952	-524	0	655	1497	2620	4193
100	400.00	30lb	-1572	-1323	-1035	-699	-302	174	756	1484	2420	3668	5415
			-1747	-1497	-1209	-873	-476	0	582	1310	2246	3494	5241
110	440.00	30lb	-1223	-948	-632	-262	174	698	1338	2139	3169	4541	6463
			-1397	-1123	-806	-436	0	524	1164	1965	2995	4367	6289
120	480.00	30lb	-874	-574	-229	174	650	1222	1921	2794	3917	5415	7511
			-1048	-748	-403	0	476	1048	1747	2620	3743	5241	7337
130	520.00	30lb	-524	-200	174	610	1127	1746	2503	3449	4666	6288	8560
			-698	-374	0	436	952	1572	2329	3275	4492	6114	8386
140	560.00	30lb	-175	174	577	1047	1603	2270	3085	4105	5415	7162	9608
			-349	0	403	873	1429	2096	2911	3930	5241	6988	9434
150	600.00	30lb	174	548	980	1484	2080	2794	3668	4760	6164	8036	10656
			0	374	806	1310	1905	2620	3494	4586	5990	7861	10482

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 9.A Estimated resource use and costs for field operations, per acre  
 Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	May							0.1633	40.00	6.53	6.53
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	May	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Jun	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Jun	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											9.0000	12.00	108.00	108.00
BS. lay/tape/Pumpkin	8ftctr	2WD 75 hp	0.080	1.00	Jun	0.80	0.54	0.21	0.76	0.08	0.83				3.14
Plastic Mulch	roll											1.4000	162.00	226.80	226.80
Drip Tape	roll											0.9000	156.00	140.40	140.40
Plntr/H20/pnch/seed	1 Row	2WD 75 hp	2.578	1.00	Jul	25.47	17.10	3.73	8.02	5.15	47.67				101.99
Pumpkin Seed Hybrid	lb											1.5000	159.00	238.50	238.50
Irrigation				1.00	Jul										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26
Disk Harrow-Hvy Duty	5'	2WD 75 hp	0.412	0.50	Jul	2.04	1.37	0.13	0.34	0.20	2.11				5.99
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Endosulfan 3EC	pt											2.6600	3.06	8.14	8.14
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Quadris	oz											11.0000	1.97	21.67	21.67
Bravo Weather Stick	pt											2.0000	5.57	11.14	11.14
Fertigate CAN03/KN03				3.00	Aug										
FERTIGATION LABOR	hour									3.00	24.84				24.84
Calcium Nitrate	lbs											75.0000	0.20	15.00	15.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Bravo Weather Stick	pt											2.0000	5.57	11.14	11.14
Fertigate CAN03/KN03				1.00	Sep										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											12.0000	0.71	8.52	8.52
Endosulfan 3EC	pt											2.6600	3.06	8.14	8.14
Fertigate CAN03/KN03				3.00	Sep										
FERTIGATION LABOR	hour									3.00	24.84				24.84
Calcium Nitrate	lbs											75.0000	0.20	15.00	15.00

(continued)

Table 9.A Estimated resource use and costs for field operations, per acre  
Pumpkin, wholesale/freshmarket, irrigated  
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51					38.52
Asana XL	oz											12.0000	0.71	8.52		8.52
Quadris	oz											11.0000	1.97	21.67		21.67
Fertigate CAN03/KN03				1.00	Oct											
FERTIGATION LABOR	hour									1.00	8.28					8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00		5.00
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	3.00	Oct	2.67	1.79	0.13	0.27	0.54	5.00					9.86
HARVEST LABOR	hour									90.00	745.20					745.20
Pallet Crates-1000lb each												123.0000	12.00	1476.00		1476.00
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Nov	5.82	3.91	0.11	3.03	0.58	6.02					18.89
LABOR MULCH CLEANUP	hour									15.00	124.20					124.20
Irrigation Setup	acre				Jul							1.0000				459.10
TOTALS						58.87	39.52	65.18	150.06	124.87	1045.49			2804.49		4622.71
INTEREST ON OPERATING CAPITAL																93.28
UNALLOCATED LABOR																12.15
TOTAL SPECIFIED COST																4728.14

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 9.B Estimated costs per acre  
 Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.1633	6.53	_____
Fert 13-13-13	cwt	12.00	9.0000	108.00	_____
Calcium Nitrate	lbs	0.20	275.0000	55.00	_____
FUNGICIDE					
Quadris	oz	1.97	22.0000	43.34	_____
Bravo Weather Stick	pt	5.57	4.0000	22.28	_____
INSECTICIDE					
Asana XL	oz	0.71	30.0000	21.30	_____
Endosulfan 3EC	pt	3.06	5.3200	16.28	_____
SEED/PLANTS					
Pumpkin Seed Hybrid	lb	159.00	1.5000	238.50	_____
OTHER					
Plastic Mulch	roll	162.00	1.4000	226.80	_____
Pallet Crates-1000lb	each	12.00	123.0000	1476.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	0.9000	140.40	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	5.9557	60.84	_____
HARVEST LABOR					
Special Labor	hour	8.28	90.0000	745.20	_____
HAND LABOR					
Implements	hour	8.28	2.9186	24.17	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	11.0000	91.08	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR					
	hour	10.20	1.1911	12.15	_____
DIESEL FUEL					
Tractors	gal	2.33	22.9915	53.59	_____
REPAIR & MAINTENANCE					
Implements	acre	65.18	1.0000	65.18	_____
Tractors	acre	5.28	1.0000	5.28	_____
INTEREST ON OP. CAP.	acre	93.28	1.0000	93.28	_____
				-----	
TOTAL DIRECT EXPENSES				4079.46	_____
FIXED EXPENSES					
Implements	acre	150.06	1.0000	150.06	_____
Tractors	acre	39.52	1.0000	39.52	_____
Irrigation Setup	acre	459.10	1.0000	459.10	_____
				-----	
TOTAL FIXED EXPENSES				648.68	_____
				-----	
TOTAL SPECIFIED EXPENSES				4728.14	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.



Table 9.C Estimated monthly income and expense flows per acre  
Pumpkin, wholesale/freshmarket, irrigated  
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	6.53	108.00	15.00	15.00	20.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	43.95	21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	12.40	0.00	25.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	238.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	226.80	0.00	0.00	0.00	1476.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	140.40	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	8.17	86.32	30.86	39.14	759.03	131.42	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	5.57	29.47	4.42	4.42	2.43	5.30	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	2.11	26.42	20.10	20.10	0.37	0.63	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.61	21.48	31.29	3.33	2.85	32.71	1.01	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	12.55	512.53	889.46	117.66	133.36	2275.54	138.36	0.00	0.00	0.00	0.00	0.00
NET INCOME	-12.55	-512.53	-889.46	-117.66	-133.36	-2275.54	-138.36	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-12.55	-525.08	-1414.54	-1532.20	-1665.56	-3941.10	-4079.46	-4079.46	-4079.46	-4079.46	-4079.46	-4079.46

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 9.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
Pumpkin, wholesale/freshmarket, irrigated  
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Pumpkin			0.07	0.08	0.08	0.09	0.10	0.11	0.12	0.14	0.16	0.19	0.23
PERCENT	YIELD	UNIT	-----dollars-----										
50	20500.00	lb	-2503	-2390	-2260	-2109	-1930	-1715	-1452	-1124	-702	-139	648
			-3152	-3039	-2909	-2758	-2578	-2364	-2101	-1773	-1350	-788	0
60	24600.00	lb	-2188	-2053	-1897	-1715	-1500	-1242	-927	-533	-26	648	1594
			-2836	-2701	-2545	-2364	-2149	-1891	-1576	-1182	-675	0	945
70	28700.00	lb	-1872	-1715	-1533	-1321	-1070	-769	-402	57	648	1436	2539
			-2521	-2364	-2182	-1970	-1719	-1418	-1050	-591	0	788	1891
80	32800.00	lb	-1557	-1377	-1169	-927	-640	-296	123	648	1324	2224	3485
			-2206	-2026	-1818	-1576	-1289	-945	-525	0	675	1576	2836
90	36900.00	lb	-1242	-1039	-806	-533	-210	175	648	1239	1999	3012	4431
			-1891	-1688	-1454	-1182	-859	-472	0	591	1350	2364	3782
100	41000.00	lb	-927	-702	-442	-139	218	648	1174	1830	2675	3800	5376
			-1576	-1350	-1091	-788	-429	0	525	1182	2026	3152	4728
110	45100.00	lb	-612	-364	-78	254	648	1121	1699	2421	3350	4588	6322
			-1260	-1013	-727	-394	0	472	1050	1773	2701	3940	5673
120	49200.00	lb	-296	-26	284	648	1078	1594	2224	3012	4025	5376	7268
			-945	-675	-363	0	429	945	1576	2364	3377	4728	6619
130	53300.00	lb	18	310	648	1042	1508	2067	2750	3603	4701	6164	8213
			-630	-337	0	394	859	1418	2101	2955	4052	5516	7565
140	57400.00	lb	333	648	1012	1436	1938	2539	3275	4194	5376	6952	9159
			-315	0	363	788	1289	1891	2626	3546	4728	6304	8510
150	61500.00	lb	648	986	1376	1830	2368	3012	3800	4785	6052	7740	10104
			0	337	727	1182	1719	2364	3152	4137	5403	7092	9456

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 10.A Estimated resource use and costs for field operations, per acre  
 Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Feb	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											6.0000	12.00	72.00	72.00
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Feb	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											2.0000	2.35	4.70	4.70
Terrachlor 75 WP	lb											2.0000	6.77	13.54	13.54
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Snap Beans - Hybrid	lb											70.0000	5.00	350.00	350.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Diazion AG500	pt											2.5000	4.96	12.40	12.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Basic Copper Sulfate	lb											6.0000	1.50	9.00	9.00
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.90	5.70	0.29	2.78				12.58
Amm Nitrate (34%)	cwt											0.7500	16.00	12.00	12.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Sevin XLR Plus	qt											2.0000	8.14	16.28	16.28
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	May	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST LABOR	hour			1.00	May					150.00	1242.00				1242.00
Bushel Box	each			1.00	May							200.0000	1.20	240.00	240.00
Load Conveyor S Bean				1.00	May										
GRD LABOR S. BEANS	hour									20.00	165.60				165.60
Cooling Snap Beans	bu box			1.00	May							200.0000	0.75	150.00	150.00
R.B.ConveySnapBeans	each			1.00	May				3.86			0.0200			3.86
Application 1	bu							79.68		40.00	331.20	200.0000			410.88
Rot.Pk Table S Beans	each			1.00	May				3.41			0.0200			3.41
Application 1	bu							6.38		2.00	16.56	200.0000			22.94
TOTALS						30.67	20.62	154.50	165.13	215.45	1789.99			899.72	3060.63
INTEREST ON OPERATING CAPITAL															30.70
UNALLOCATED LABOR															6.34
TOTAL SPECIFIED COST															3097.67

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

Table 10.B Estimated costs per acre  
 Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	6.0000	72.00	_____
Amm Nitrate (34%)	cwt	16.00	0.7500	12.00	_____
FUNGICIDE					
Terrachlor 75 WP	lb	6.77	2.0000	13.54	_____
Basic Copper Sulfate	lb	1.50	6.0000	9.00	_____
HERBICIDE					
Treflan HFP	pt	2.35	2.0000	4.70	_____
INSECTICIDE					
Diazion AG500	pt	4.96	2.5000	12.40	_____
Sevin XLR Plus	qt	8.14	2.0000	16.28	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	5.00	70.0000	350.00	_____
OTHER					
Bushel Box	each	1.20	200.0000	240.00	_____
Cooling Snap Beans	bu box	0.75	200.0000	150.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	3.1055	31.70	_____
HARVEST LABOR					
Special Labor	hour	8.28	150.0000	1242.00	_____
HAND LABOR					
Implements	hour	8.28	0.3543	2.93	_____
GRD LABOR S. BEANS					
Special Labor	hour	8.28	20.0000	165.60	_____
R.B.ConveySnapBeans	hour	8.28	40.0000	331.20	_____
Rot.Pk Table S Beans	hour	8.28	2.0000	16.56	_____
UNALLOCATED LABOR	hour	10.20	0.6211	6.34	_____
DIESEL FUEL					
Tractors	gal	2.33	11.9885	27.94	_____
REPAIR & MAINTENANCE					
Implements	acre	68.44	1.0000	68.44	_____
Tractors	acre	2.73	1.0000	2.73	_____
R.B.ConveySnapBeans	bu	0.39	200.0000	79.68	_____
Rot.Pk Table S Beans	bu	0.03	200.0000	6.38	_____
INTEREST ON OP. CAP.	acre	30.70	1.0000	30.70	_____
TOTAL DIRECT EXPENSES				2911.92	_____
FIXED EXPENSES					
Implements	acre	157.86	1.0000	157.86	_____
Tractors	acre	20.62	1.0000	20.62	_____
R.B.ConveySnapBeans	each	192.96	0.0200	3.86	_____
Rot.Pk Table S Beans	each	170.48	0.0200	3.41	_____
TOTAL FIXED EXPENSES				185.75	_____
TOTAL SPECIFIED EXPENSES				3097.67	_____

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

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

Table 10.C Estimated monthly income and expense flows per acre  
 Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	91.80	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	13.54	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	12.40	16.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	13.05	10.87	15.20	1757.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	8.56	7.99	10.58	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.07	26.71	41.27	86.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	3.93	8.93	1.54	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	138.65	416.90	105.87	2250.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-138.65	-416.90	-105.87	-2250.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-138.65	-555.55	-661.42	-2911.92	-2911.92	-2911.92	-2911.92	-2911.92	-2911.92	-2911.92	-2911.92	-2911.92

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

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

\* Lease costs are based on hourly usage costs.

Table 10.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Snap Beans			10.72	11.40	12.19	13.10	14.19	15.48	17.07	19.05	21.60	25.00	29.76
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	30lb	-1718	-1650	-1571	-1480	-1372	-1242	-1083	-885	-630	-290	185
			-1903	-1835	-1757	-1665	-1557	-1427	-1269	-1070	-815	-475	0
60	120.00	30lb	-1527	-1446	-1352	-1242	-1112	-956	-766	-528	-222	185	756
			-1713	-1631	-1537	-1427	-1298	-1142	-951	-713	-407	0	571
70	140.00	30lb	-1337	-1242	-1132	-1004	-852	-671	-448	-171	185	661	1328
			-1523	-1427	-1318	-1189	-1038	-856	-634	-356	0	475	1142
80	160.00	30lb	-1147	-1038	-912	-766	-593	-385	-131	185	593	1137	1899
			-1332	-1223	-1098	-951	-778	-571	-317	0	407	951	1713
90	180.00	30lb	-956	-834	-692	-528	-333	-99	185	542	1001	1613	2470
			-1142	-1019	-878	-713	-519	-285	0	356	815	1427	2284
100	200.00	30lb	-766	-630	-473	-290	-73	185	503	899	1409	2089	3041
			-951	-815	-659	-475	-259	0	317	713	1223	1903	2855
110	220.00	30lb	-575	-426	-253	-52	185	471	820	1256	1817	2565	3612
			-761	-611	-439	-237	0	285	634	1070	1631	2379	3427
120	240.00	30lb	-385	-222	-33	185	445	756	1137	1613	2225	3041	4184
			-571	-407	-219	0	259	571	951	1427	2039	2855	3998
130	260.00	30lb	-195	-18	185	423	705	1042	1455	1970	2633	3517	4755
			-380	-203	0	237	519	856	1269	1784	2447	3331	4569
140	280.00	30lb	-4	185	405	661	964	1328	1772	2327	3041	3993	5326
			-190	0	219	475	778	1142	1586	2141	2855	3807	5140
150	300.00	30lb	185	389	625	899	1224	1613	2089	2684	3449	4469	5897
			0	203	439	713	1038	1427	1903	2498	3263	4283	5711

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 11.A Estimated resource use and costs for field operations, per acre  
 Snap beans, fresh market - mechanical harvest  
 Mississippi, MALTAG, 2008

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-----			
Custom Apply Fert	acre			0.33	Feb							0.4950	9.00	4.46	4.46
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Feb	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											6.0000	12.00	72.00	72.00
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Feb	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											2.0000	2.35	4.70	4.70
Terrachlor 75 WP	lb											2.0000	6.77	13.54	13.54
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Snap Beans - Hybrid	lb											70.0000	5.00	350.00	350.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Diazion AG500	pt											2.5000	4.96	12.40	12.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Basic Copper Sulfate	lb											6.0000	1.50	9.00	9.00
Cultivate+Sidedress	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.76	4.82	0.58	5.61				17.64
Amm Nitrate (34%)	cwt											0.7500	16.00	12.00	12.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Sevin XLR Plus	qt											2.0000	8.14	16.28	16.28
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	May	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Bushel Box	each											150.0000	1.20	180.00	180.00
Trailer - Snap Bean	16 ft	2WD 75 hp	3.571	1.00	May	35.28	23.68	1.86	4.01	7.14	66.03				130.86
Load Conveyor S Bean				1.00	May										
GRD LABOR S. BEANS	hour									20.00	165.60				165.60
Cooling Snap Beans	bu box			1.00	May							150.0000	0.75	112.50	112.50
R.B.ConveySnapBeans	each			1.00	May				3.86			0.0200			3.86
Application 1	bu							59.76		30.00	248.40	150.0000			308.16
Rot.Pk Table S Beans	each			1.00	May				3.41			0.0200			3.41
Application 1	bu							4.79		1.50	12.42	150.0000			17.21
TOTALS						102.29	68.68	174.89	217.01	72.93	623.84			786.88	1973.59
INTEREST ON OPERATING CAPITAL															21.85
UNALLOCATED LABOR															21.14
TOTAL SPECIFIED COST															2016.58

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

Table 11.B Estimated costs per acre  
 Snap beans, fresh market - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Custom Apply Fert	acre	9.00	0.4950	4.46	_____
FERTILIZER					
Fert 13-13-13	cwt	12.00	6.0000	72.00	_____
Amm Nitrate (34%)	cwt	16.00	0.7500	12.00	_____
FUNGICIDE					
Terrachlor 75 WP	lb	6.77	2.0000	13.54	_____
Basic Copper Sulfate	lb	1.50	6.0000	9.00	_____
HERBICIDE					
Treflan HFP	pt	2.35	2.0000	4.70	_____
INSECTICIDE					
Diazion AG500	pt	4.96	2.5000	12.40	_____
Sevin XLR Plus	qt	8.14	2.0000	16.28	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	5.00	70.0000	350.00	_____
OTHER					
Bushel Box	each	1.20	150.0000	180.00	_____
Cooling Snap Beans	bu box	0.75	150.0000	112.50	_____
OPERATOR LABOR					
Tractors	hour	10.21	10.3551	105.71	_____
HAND LABOR					
Implements	hour	8.28	11.0770	91.71	_____
GRD LABOR S. BEANS					
Special Labor	hour	8.28	20.0000	165.60	_____
R.B.ConveySnapBeans	hour	8.28	30.0000	248.40	_____
Rot.Pk Table S Beans	hour	8.28	1.5000	12.42	_____
UNALLOCATED LABOR	hour	10.20	2.0710	21.14	_____
DIESEL FUEL					
Tractors	gal	2.33	39.9750	93.14	_____
REPAIR & MAINTENANCE					
Implements	acre	110.34	1.0000	110.34	_____
Tractors	acre	9.15	1.0000	9.15	_____
R.B.ConveySnapBeans	bu	0.39	150.0000	59.76	_____
Rot.Pk Table S Beans	bu	0.03	150.0000	4.79	_____
INTEREST ON OP. CAP.	acre	21.85	1.0000	21.85	_____
TOTAL DIRECT EXPENSES				1730.89	_____
FIXED EXPENSES					
Implements	acre	209.74	1.0000	209.74	_____
Tractors	acre	68.68	1.0000	68.68	_____
R.B.ConveySnapBeans	each	192.96	0.0200	3.86	_____
Rot.Pk Table S Beans	each	170.48	0.0200	3.41	_____
TOTAL FIXED EXPENSES				285.69	_____
TOTAL SPECIFIED EXPENSES				2016.58	_____

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



Table 11.C Estimated monthly income and expense flows per acre  
 Snap beans, fresh market - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	72.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	13.54	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	12.40	16.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	292.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	13.05	10.87	18.43	602.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	8.56	7.99	12.35	64.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.07	26.71	41.31	112.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	3.48	8.93	1.61	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	122.86	416.90	110.98	1080.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-122.86	-416.90	-110.98	-1080.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-122.86	-539.76	-650.74	-1730.89	-1730.89	-1730.89	-1730.89	-1730.89	-1730.89	-1730.89	-1730.89	-1730.89

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

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

\* Lease costs are based on hourly usage costs.

Table 11.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Snap beans, fresh market - mechanical harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Snap Beans			9.36	9.94	10.62	11.40	12.33	13.44	14.80	16.50	18.68	21.60	25.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	30lb	-937	-894	-843	-784	-715	-631	-529	-402	-238	-20	285
			-1223	-1179	-1129	-1070	-1001	-917	-815	-688	-524	-305	0
60	90.00	30lb	-815	-763	-702	-631	-548	-448	-326	-173	23	285	652
			-1101	-1048	-988	-917	-834	-734	-611	-458	-262	0	367
70	105.00	30lb	-693	-631	-561	-479	-381	-264	-122	56	285	591	1019
			-978	-917	-847	-764	-667	-550	-407	-229	0	305	734
80	120.00	30lb	-570	-500	-420	-326	-214	-81	81	285	547	897	1386
			-856	-786	-705	-611	-500	-367	-203	0	262	611	1101
90	135.00	30lb	-448	-369	-279	-173	-47	102	285	515	810	1203	1753
			-734	-655	-564	-458	-333	-183	0	229	524	917	1468
100	150.00	30lb	-326	-238	-137	-20	118	285	489	744	1072	1509	2120
			-611	-524	-423	-305	-166	0	203	458	786	1223	1835
110	165.00	30lb	-203	-107	3	132	285	469	693	973	1334	1815	2488
			-489	-393	-282	-152	0	183	407	688	1048	1529	2202
120	180.00	30lb	-81	23	144	285	452	652	897	1203	1596	2120	2855
			-367	-262	-141	0	166	367	611	917	1310	1835	2569
130	195.00	30lb	40	154	285	438	619	836	1101	1432	1858	2426	3222
			-244	-131	0	152	333	550	815	1147	1573	2141	2936
140	210.00	30lb	163	285	426	591	786	1019	1305	1662	2120	2732	3589
			-122	0	141	305	500	734	1019	1376	1835	2447	3303
150	225.00	30lb	285	416	568	744	953	1203	1509	1891	2383	3038	3956
			0	131	282	458	667	917	1223	1605	2097	2752	3670

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 12.A Estimated resource use and costs for field operations, per acre  
 Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Sub-Soiler	2 Shank	2WD 75 hp	0.404	1.00	Feb	4.00	2.68	0.91	2.97	0.40	4.13				14.69
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Feb	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Amm Nitrate (34%)	cwt											0.5000	16.00	8.00	8.00
Phosphorus(46% P205)	cwt											1.5600	14.00	21.84	21.84
Potash (60% K20)	cwt											1.2000	13.00	15.60	15.60
Disk Harrow	14 Ft	2WD 75 hp	0.141	2.00	Mar	2.80	1.88	1.22	3.22	0.28	2.89				12.01
Disk Bed	4 Row	2WD 75 hp	0.140	1.00	Mar	1.39	0.93	0.20	0.67	0.14	1.44				4.63
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											0.5000	2.35	1.18	1.18
Plntr - Vacuum	4 Row	2WD 75 hp	0.226	1.00	Apr	2.24	1.50	11.75	24.93	0.22	2.31				42.73
Southern Peas - OP	lb											10.0000	3.00	30.00	30.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Diazion AG500	pt											1.2500	4.96	6.20	6.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	May	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Endosulfan 3E	pt											15.9480	3.06	48.80	48.80
Cultivate	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.35	1.17	0.19	1.98				6.70
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	3.00	May	2.67	1.79	0.13	0.27	0.54	5.00				9.86
HARVEST LABOR	hour			1.00	May					75.00	621.00				621.00
5-Gal Bucket	each											20.0000	3.00	60.00	60.00
Sheller S. Peas	each			1.00	May				8.42			0.0200			8.42
100/10 lb bg S. Peas	acre							0.24		6.00	49.68	1.0000			49.92
R.B.Convey S. Peas	each			1.00	May				3.86			0.0200			3.86
Rot.Pk.Table S Peas	each			1.00	May				3.41			0.0200			3.41
Application 1	acre							0.13		3.00	24.84	1.0000			24.97
Bag Sealer S. Peas	each			1.00	May				1.11			0.0200			1.11
Application 1	acre							0.61		0.10	0.83	1.0000			1.44
TOTALS						27.46	18.43	55.26	139.87	87.24	727.77			211.42	1180.21
INTEREST ON OPERATING CAPITAL															10.01
UNALLOCATED LABOR															5.68
TOTAL SPECIFIED COST															1195.90

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

Table 12.B Estimated costs per acre  
 Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Amm Nitrate (34%)	cwt	16.00	0.5000	8.00	_____
Phosphorus(46% P205)	cwt	14.00	1.5600	21.84	_____
Potash (60% K20)	cwt	13.00	1.2000	15.60	_____
HERBICIDE					
Treflan HFP	pt	2.35	0.5000	1.18	_____
INSECTICIDE					
Diazion AG500	pt	4.96	1.2500	6.20	_____
Endosulfan 3E	pt	3.06	15.9480	48.80	_____
SEED/PLANTS					
Southern Peas - OP	lb	3.00	10.0000	30.00	_____
OTHER					
5-Gal Bucket	each	3.00	20.0000	60.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	2.7793	28.38	_____
HARVEST LABOR					
Special Labor	hour	8.28	75.0000	621.00	_____
HAND LABOR					
Implements	hour	8.28	0.3669	3.04	_____
GRD LABOR S. PEAS					
Rot.Pk.Table S Peas	hour	8.28	3.0000	24.84	_____
Bag Sealer S. Peas	hour	8.28	0.1000	0.83	_____
Sheller S. Peas	hour	8.28	6.0000	49.68	_____
UNALLOCATED LABOR	hour	10.21	0.5558	5.68	_____
DIESEL FUEL					
Tractors	gal	2.33	10.7294	25.01	_____
REPAIR & MAINTENANCE					
Implements	acre	54.28	1.0000	54.28	_____
Tractors	acre	2.45	1.0000	2.45	_____
Rot.Pk.Table S Peas	acre	0.12	1.0000	0.13	_____
Bag Sealer S. Peas	acre	0.60	1.0000	0.61	_____
Sheller S. Peas	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	10.01	1.0000	10.01	_____
TOTAL DIRECT EXPENSES				1037.60	_____
FIXED EXPENSES					
Implements	acre	123.07	1.0000	123.07	_____
Tractors	acre	18.43	1.0000	18.43	_____
R.B.Convey S. Peas	each	192.96	0.0200	3.86	_____
Rot.Pk.Table S Peas	each	170.48	0.0200	3.41	_____
Bag Sealer S. Peas	each	55.67	0.0200	1.11	_____
Sheller S. Peas	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				158.30	_____
TOTAL SPECIFIED EXPENSES				1195.90	_____

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

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

Table 12.C Estimated monthly income and expense flows per acre  
 Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	45.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	6.20	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	5.99	5.20	8.96	713.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.40	3.82	5.99	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.39	1.79	22.51	32.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	1.67	0.23	1.09	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	58.89	11.04	75.93	871.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-58.89	-11.04	-75.93	-871.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-79.41	-90.45	-166.38	-1037.60	-1037.60	-1037.60	-1037.60	-1037.60	-1037.60	-1037.60	-1037.60

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

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

\* Lease costs are based on hourly usage costs.

Table 12.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

Southern Peas			-----BREAKEVEN PRICE-----										
			7.97	8.54	9.19	9.96	10.87	11.95	13.28	14.94	17.08	19.93	23.91
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	101b	-638	-610	-577	-539	-494	-439	-373	-290	-183	-41	158
			-797	-768	-735	-697	-652	-597	-531	-448	-341	-199	0
60	60.00	101b	-559	-525	-485	-439	-385	-320	-240	-140	-12	158	397
			-717	-683	-643	-597	-543	-478	-398	-298	-170	0	239
70	70.00	101b	-479	-439	-393	-339	-276	-200	-107	8	158	357	636
			-637	-597	-551	-498	-434	-358	-265	-149	0	199	478
80	80.00	101b	-399	-354	-301	-240	-167	-80	25	158	329	556	875
			-558	-512	-459	-398	-326	-239	-132	0	170	398	717
90	90.00	101b	-320	-268	-209	-140	-59	38	158	307	499	756	1115
			-478	-427	-367	-298	-217	-119	0	149	341	597	956
100	100.00	101b	-240	-183	-117	-41	49	158	291	457	670	955	1354
			-398	-341	-275	-199	-108	0	132	298	512	797	1195
110	110.00	101b	-160	-97	-25	58	158	277	424	606	841	1154	1593
			-318	-256	-183	-99	0	119	265	448	683	996	1435
120	120.00	101b	-80	-12	66	158	267	397	556	756	1012	1354	1832
			-239	-170	-91	0	108	239	398	597	854	1195	1674
130	130.00	101b	-1	72	158	257	375	517	689	905	1183	1553	2071
			-159	-85	0	99	217	358	531	747	1025	1395	1913
140	140.00	101b	78	158	250	357	484	636	822	1055	1354	1752	2310
			-79	0	91	199	326	478	664	896	1195	1594	2152
150	150.00	101b	158	243	342	457	593	756	955	1204	1525	1952	2550
			0	85	183	298	434	597	797	1046	1366	1793	2391

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 13.A Estimated resource use and costs for field operations, per acre  
 Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Sub-Soiler	2 Shank	2WD 75 hp	0.404	1.00	Feb	4.00	2.68	0.91	2.97	0.40	4.13				14.69
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Feb	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Amm Nitrate (34%)	cwt											0.5000	16.00	8.00	8.00
Phosphorus(46% P205)	cwt											1.5600	14.00	21.84	21.84
Potash (60% K20)	cwt											1.2000	13.00	15.60	15.60
Disk Harrow	14 Ft	2WD 75 hp	0.141	2.00	Mar	2.80	1.88	1.22	3.22	0.28	2.89				12.01
Disk Bed	4 Row	2WD 75 hp	0.140	1.00	Mar	1.39	0.93	0.20	0.67	0.14	1.44				4.63
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Apr	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Treflan HFP	pt											0.5000	2.35	1.18	1.18
Plntr - Vacuum	4 Row	2WD 75 hp	0.226	1.00	Apr	2.24	1.50	11.75	24.93	0.22	2.31				42.73
Southern Peas - OP	lb											10.0000	3.00	30.00	30.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Diazion AG500	pt											1.2500	4.96	6.20	6.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	May	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Endosulfan 3E	pt											15.9480	3.06	48.80	48.80
Cultivate	4 Row	2WD 75 hp	0.193	1.00	May	1.91	1.29	0.35	1.17	0.19	1.98				6.70
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	May	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Sacks - S Peas	each											75.0000	0.65	48.75	48.75
Trailer-Southern Pea	16 ft	2WD 75 hp	3.571	1.00	May	35.28	23.68	1.86	4.01	7.14	66.03				130.86
Sheller S. Peas	each			1.00	May				8.42			0.0200			8.42
64/10 lb bg S. Peas	acre							0.24		6.00	49.68	1.0000			49.92
R.B.Convey S. Peas	each			1.00	May				3.86			0.0200			3.86
Rot.Pk.Table S Peas	each			1.00	May				3.41			0.0200			3.41
Application 1	acre							0.13		3.00	24.84	1.0000			24.97
Bag Sealer S. Peas	each			1.00	May				1.11			0.0200			1.11
Application 1	acre							0.61		0.10	0.83	1.0000			1.44
TOTALS						95.35	64.00	97.21	192.45	29.56	263.40			200.17	912.58
INTEREST ON OPERATING CAPITAL															7.45
UNALLOCATED LABOR															19.71
TOTAL SPECIFIED COST															939.74

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

Table 13.B Estimated costs per acre  
 Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Amm Nitrate (34%)	cwt	16.00	0.5000	8.00	_____
Phosphorus(46% P205)	cwt	14.00	1.5600	21.84	_____
Potash (60% K20)	cwt	13.00	1.2000	15.60	_____
HERBICIDE					
Treflan HFP	pt	2.35	0.5000	1.18	_____
INSECTICIDE					
Diazion AG500	pt	4.96	1.2500	6.20	_____
Endosulfan 3E	pt	3.06	15.9480	48.80	_____
SEED/PLANTS					
Southern Peas - OP	lb	3.00	10.0000	30.00	_____
OTHER					
Sacks - S Peas	each	0.65	75.0000	48.75	_____
OPERATOR LABOR					
Tractors	hour	10.21	9.6522	98.54	_____
HAND LABOR					
Implements	hour	8.28	10.8112	89.51	_____
GRD LABOR S. PEAS					
Rot.Pk.Table S Peas	hour	8.28	3.0000	24.84	_____
Bag Sealer S. Peas	hour	8.28	0.1000	0.83	_____
Sheller S. Peas	hour	8.28	6.0000	49.68	_____
UNALLOCATED LABOR	hour	10.21	1.9304	19.71	_____
DIESEL FUEL					
Tractors	gal	2.33	37.2614	86.82	_____
REPAIR & MAINTENANCE					
Implements	acre	96.23	1.0000	96.23	_____
Tractors	acre	8.53	1.0000	8.53	_____
Rot.Pk.Table S Peas	acre	0.12	1.0000	0.13	_____
Bag Sealer S. Peas	acre	0.60	1.0000	0.61	_____
Sheller S. Peas	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	7.45	1.0000	7.45	_____
TOTAL DIRECT EXPENSES				683.29	_____
FIXED EXPENSES					
Implements	acre	175.65	1.0000	175.65	_____
Tractors	acre	64.00	1.0000	64.00	_____
R.B.Convey S. Peas	each	192.96	0.0200	3.86	_____
Rot.Pk.Table S Peas	each	170.48	0.0200	3.41	_____
Bag Sealer S. Peas	each	55.67	0.0200	1.11	_____
Sheller S. Peas	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				256.45	_____
TOTAL SPECIFIED EXPENSES				939.74	_____

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



Table 13.C Estimated monthly income and expense flows per acre  
 Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	45.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	6.20	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	48.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	5.99	5.20	8.96	262.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.40	3.82	5.99	72.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.39	1.79	22.51	80.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	1.67	0.23	1.09	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	58.89	11.04	75.93	516.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-58.89	-11.04	-75.93	-516.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-79.41	-90.45	-166.38	-683.29	-683.29	-683.29	-683.29	-683.29	-683.29	-683.29	-683.29

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

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

\* Lease costs are based on hourly usage costs.

Table 13.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Southern Peas			9.78	10.48	11.29	12.23	13.34	14.68	16.31	18.35	20.97	24.47	29.36
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.00	101b	-370	-347	-321	-291	-256	-213	-161	-95	-12	99	256
			-626	-604	-578	-548	-512	-469	-417	-352	-268	-156	0
60	38.40	101b	-307	-280	-249	-213	-170	-119	-56	21	122	256	444
			-563	-536	-506	-469	-427	-375	-313	-234	-134	0	187
70	44.80	101b	-244	-213	-177	-135	-85	-25	47	138	256	413	632
			-501	-469	-433	-391	-341	-281	-208	-117	0	156	375
80	51.20	101b	-182	-146	-104	-56	0	68	152	256	390	569	820
			-438	-402	-361	-313	-256	-187	-104	0	134	313	563
90	57.60	101b	-119	-79	-32	21	85	162	256	373	524	726	1008
			-375	-335	-289	-234	-170	-93	0	117	268	469	751
100	64.00	101b	-56	-12	39	99	171	256	360	491	659	882	1196
			-313	-268	-216	-156	-85	0	104	234	402	626	939
110	70.40	101b	5	55	111	178	256	350	465	608	793	1039	1384
			-250	-201	-144	-78	0	93	208	352	536	783	1127
120	76.80	101b	68	122	184	256	341	444	569	726	927	1196	1572
			-187	-134	-72	0	85	187	313	469	671	939	1315
130	83.20	101b	131	189	256	334	427	538	674	843	1061	1352	1760
			-125	-67	0	78	170	281	417	587	805	1096	1503
140	89.60	101b	193	256	328	413	512	632	778	961	1196	1509	1947
			-62	0	72	156	256	375	522	704	939	1252	1691
150	96.00	101b	256	323	401	491	598	726	882	1078	1330	1666	2135
			0	67	144	234	341	469	626	822	1073	1409	1879

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 14.A Estimated resource use and costs for field operations, per acre  
 Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Mar	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											9.0000	12.00	108.00	108.00
BS.lay/tape/Squash	5ftctr	2WD 75 hp	1.294	1.00	Mar	12.79	8.58	2.02	7.50	1.29	13.21				44.10
Plastic Mulch	roll											2.2000	162.00	356.40	356.40
Drip Tape	roll											1.5000	156.00	234.00	234.00
Plntr/H20/pnch/seed	1 Row	2WD 75 hp	2.578	1.00	Apr	25.47	17.10	3.73	8.02	5.15	47.67				101.99
Squash - Hybrid	lb											2.0000	152.00	304.00	304.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Calcium Nitrate	lbs											50.0000	0.20	10.00	10.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Quadris	oz											11.0000	1.97	21.67	21.67
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											25.0000	0.20	5.00	5.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Asana XL	oz											12.0000	0.71	8.52	8.52
Bravo Weather Stick	pt											4.0000	5.57	22.28	22.28
Fertigate CAN03/KN03				4.00	May										
FERTIGATION LABOR	hour									4.00	33.12				33.12
Calcium Nitrate	lbs											100.0000	0.20	20.00	20.00
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	10.00	Jun	8.90	5.97	0.42	0.91	1.80	16.64				32.84
HARVEST LABOR	hour			1.00	Jun					100.00	828.00				828.00
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
Bushel Box	each											250.0000	1.20	300.00	300.00
GRADE & PACK LABOR	hour			10.00	Jun					110.00	910.80				910.80
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Jun	5.82	3.91	0.11	3.03	0.58	6.02				18.89
LABOR MULCH CLEANUP	hour									15.00	124.20				124.20
Irrigation Setup	acre				Apr							1.0000			471.30
TOTALS						70.18	47.11	47.50	112.87	243.65	2031.13			2468.99	5249.08
INTEREST ON OPERATING CAPITAL															65.85
UNALLOCATED LABOR															14.49
TOTAL SPECIFIED COST															5329.42

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 14.B Estimated costs per acre  
 Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	9.0000	108.00	_____
Calcium Nitrate	lbs	0.20	200.0000	40.00	_____
FUNGICIDE					
Quadris	oz	1.97	11.0000	21.67	_____
Bravo Weather Stick	pt	5.57	4.0000	22.28	_____
INSECTICIDE					
Asana XL	oz	0.71	18.0000	12.78	_____
SEED/PLANTS					
Squash - Hybrid	lb	152.00	2.0000	304.00	_____
OTHER					
Plastic Mulch	roll	162.00	2.2000	356.40	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Bushel Box	each	1.20	250.0000	300.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.5000	234.00	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.1016	72.51	_____
HARVEST LABOR					
Special Labor	hour	8.28	100.0000	828.00	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	110.0000	910.80	_____
HAND LABOR					
Implements	hour	8.28	3.5486	29.38	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	8.0000	66.24	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR					
	hour	10.20	1.4203	14.49	_____
DIESEL FUEL					
Tractors	gal	2.33	27.4152	63.89	_____
REPAIR & MAINTENANCE					
Implements	acre	47.50	1.0000	47.50	_____
Tractors	acre	6.29	1.0000	6.29	_____
INTEREST ON OP. CAP.	acre	65.85	1.0000	65.85	_____
TOTAL DIRECT EXPENSES				4698.14	_____
FIXED EXPENSES					
Implements	acre	112.87	1.0000	112.87	_____
Tractors	acre	47.11	1.0000	47.11	_____
Irrigation Setup	acre	471.30	1.0000	471.30	_____
TOTAL FIXED EXPENSES				631.28	_____
TOTAL SPECIFIED EXPENSES				5329.42	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 14.C Estimated monthly income and expense flows per acre  
 Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	108.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	43.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	12.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	356.40	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	234.00	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	23.02	98.08	33.12	1888.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	16.48	32.03	0.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	5.00	46.21	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.92	21.67	22.03	0.77	20.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	26.13	764.57	1029.14	53.89	2824.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-26.13	-764.57	-1029.14	-53.89	-2824.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-26.13	-790.70	-1819.84	-1873.73	-4698.14	-4698.14	-4698.14	-4698.14	-4698.14	-4698.14	-4698.14	-4698.14

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 14.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Squash			14.61	15.57	16.67	17.96	19.48	21.31	23.55	26.34	29.93	34.72	41.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	125.00	421b	-2720	-2600	-2462	-2301	-2110	-1882	-1603	-1253	-805	-206	631
			-3351	-3231	-3093	-2932	-2742	-2513	-2234	-1885	-1436	-837	0
60	150.00	421b	-2385	-2241	-2075	-1882	-1653	-1379	-1044	-625	-86	631	1636
			-3016	-2872	-2706	-2513	-2285	-2010	-1675	-1256	-718	0	1005
70	175.00	421b	-2049	-1882	-1688	-1463	-1196	-876	-485	2	631	1469	2642
			-2681	-2513	-2320	-2094	-1828	-1508	-1117	-628	0	837	2010
80	200.00	421b	-1714	-1523	-1302	-1044	-739	-374	72	631	1349	2307	3647
			-2346	-2154	-1933	-1675	-1371	-1005	-558	0	718	1675	3016
90	225.00	421b	-1379	-1164	-915	-625	-282	128	631	1259	2067	3144	4653
			-2010	-1795	-1546	-1256	-914	-502	0	628	1436	2513	4021
100	250.00	421b	-1044	-805	-528	-206	174	631	1189	1888	2785	3982	5658
			-1675	-1436	-1160	-837	-457	0	558	1256	2154	3351	5027
110	275.00	421b	-709	-445	-142	212	631	1134	1748	2516	3503	4820	6663
			-1340	-1077	-773	-418	0	502	1117	1885	2872	4189	6032
120	300.00	421b	-374	-86	244	631	1088	1636	2307	3144	4222	5658	7669
			-1005	-718	-386	0	457	1005	1675	2513	3590	5027	7038
130	325.00	421b	-39	272	631	1050	1545	2139	2865	3773	4940	6496	8674
			-670	-359	0	418	914	1508	2234	3142	4309	5865	8043
140	350.00	421b	296	631	1017	1469	2002	2642	3424	4401	5658	7334	9680
			-335	0	386	837	1371	2010	2792	3770	5027	6702	9049
150	375.00	421b	631	990	1404	1888	2459	3144	3982	5030	6376	8172	10685
			0	359	773	1256	1828	2513	3351	4398	5745	7540	10054

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 15.A Estimated resource use and costs for field operations, per acre  
 Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Mar	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											7.5000	12.00	90.00	90.00
Cultivate	4 Row	2WD 75 hp	0.193	1.00	Mar	1.91	1.29	0.35	1.17	0.19	1.98				6.70
Plntr-vacuum+insect	4R30-40"	2WD 75 hp	0.226	1.00	Mar	2.24	1.50	17.16	36.41	0.22	2.31				59.62
Sweet Corn - Hybrid	lb											9.0000	12.00	108.00	108.00
Furadan 4 F	pt											2.0000	9.13	18.26	18.26
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Mar	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Bicep II Magnum	pt											4.0000	4.71	18.84	18.84
Cultivate+Sidedress	4 Row	2WD 75 hp	0.193	2.00	Apr	3.83	2.57	1.80	11.39	0.58	5.56				25.15
Amm Nitrate (34%)	cwt											4.0000	16.00	64.00	64.00
Sprayer(300-450gal)	47 ft		0.022	7.00	May	2.45	4.04			0.15	1.61				8.10
Lannate LV	pt											9.1000	7.10	64.61	64.61
Sprayer(300-450gal)	47 ft		0.022	3.00	Jun	1.05	1.73			0.06	0.69				3.47
Lannate LV	pt											3.9000	7.10	27.69	27.69
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Jun					50.00	414.00				414.00
Crates - Sweet Corn	each			1.00	Jun							200.0000	1.25	250.00	250.00
Ice + Cooling	crat											200.0000	0.70	140.00	140.00
TOTALS						21.77	18.05	21.58	55.10	52.52	438.92			801.20	1356.62
INTEREST ON OPERATING CAPITAL															18.10
UNALLOCATED LABOR															4.24
TOTAL SPECIFIED COST															1378.96

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

Table 15.B Estimated costs per acre  
 Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	7.5000	90.00	_____
Amm Nitrate (34%)	cwt	16.00	4.0000	64.00	_____
HERBICIDE					
Bicep II Magnum	pt	4.71	4.0000	18.84	_____
INSECTICIDE					
Furadan 4 F	pt	9.13	2.0000	18.26	_____
Lannate LV	pt	7.10	13.0000	92.30	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	12.00	9.0000	108.00	_____
OTHER					
Crates - Sweet Corn	each	1.25	200.0000	250.00	_____
Ice + Cooling	crat	0.70	200.0000	140.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	1.8500	18.89	_____
Self-Propelled	hour	10.21	0.2250	2.30	_____
HAND LABOR					
Implements	hour	8.28	0.4512	3.73	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	50.0000	414.00	_____
UNALLOCATED LABOR	hour	10.21	0.4150	4.24	_____
DIESEL FUEL					
Tractors	gal	2.33	7.1417	16.64	_____
Self-Propelled	gal	2.33	1.1871	2.77	_____
REPAIR & MAINTENANCE					
Implements	acre	21.58	1.0000	21.58	_____
Tractors	acre	1.63	1.0000	1.63	_____
Self-Propelled	acre	0.73	1.0000	0.73	_____
INTEREST ON OP. CAP.	acre	18.10	1.0000	18.10	_____
TOTAL DIRECT EXPENSES				1305.81	_____
FIXED EXPENSES					
Implements	acre	55.10	1.0000	55.10	_____
Tractors	acre	12.28	1.0000	12.28	_____
Self-Propelled	acre	5.77	1.0000	5.77	_____
TOTAL FIXED EXPENSES				73.15	_____
TOTAL SPECIFIED EXPENSES				1378.96	_____

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



Table 15.C Estimated monthly income and expense flows per acre  
 Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	90.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	18.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	18.26	0.00	64.61	27.69	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.56	10.64	6.35	1.93	416.68	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	5.55	6.79	3.49	1.94	1.64	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.24	18.71	2.14	0.51	0.34	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	0.56	7.92	1.66	1.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	15.91	279.16	77.64	69.99	842.44	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-15.91	-279.16	-77.64	-69.99	-842.44	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-36.58	-315.74	-393.38	-463.37	-1305.81	-1305.81	-1305.81	-1305.81	-1305.81	-1305.81	-1305.81

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

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

\* Lease costs are based on hourly usage costs.

Table 15.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Sweet Corn			5.25	5.48	5.75	6.07	6.44	6.89	7.44	8.12	9.00	10.18	11.82
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-584	-560	-533	-502	-464	-419	-365	-296	-208	-91	73
			-657	-633	-606	-575	-537	-493	-438	-369	-281	-164	0
60	120.00	5doz	-518	-490	-457	-419	-375	-321	-255	-173	-67	73	270
			-591	-563	-530	-493	-448	-394	-328	-246	-140	0	197
70	140.00	5doz	-452	-419	-381	-337	-285	-222	-145	-50	73	237	467
			-525	-493	-455	-410	-358	-295	-219	-123	0	164	394
80	160.00	5doz	-387	-349	-306	-255	-195	-124	-36	73	214	401	664
			-460	-422	-379	-328	-268	-197	-109	0	140	328	591
90	180.00	5doz	-321	-279	-230	-173	-106	-25	73	196	354	566	862
			-394	-352	-303	-246	-179	-98	0	123	281	493	788
100	200.00	5doz	-255	-208	-154	-91	-16	73	182	319	495	730	1059
			-328	-281	-227	-164	-89	0	109	246	422	657	986
110	220.00	5doz	-189	-138	-78	-9	73	171	292	442	636	894	1256
			-262	-211	-151	-82	0	98	219	369	563	821	1183
120	240.00	5doz	-124	-67	-2	73	162	270	401	566	777	1059	1453
			-197	-140	-75	0	89	197	328	493	704	986	1380
130	260.00	5doz	-58	2	73	155	252	368	511	689	918	1223	1650
			-131	-70	0	82	179	295	438	616	845	1150	1577
140	280.00	5doz	7	73	149	237	342	467	620	812	1059	1387	1848
			-65	0	75	164	268	394	547	739	986	1314	1775
150	300.00	5doz	73	143	224	319	431	566	730	936	1200	1552	2045
			0	70	151	246	358	493	657	862	1126	1479	1972

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 16.A Estimated resource use and costs for field operations, per acre  
 Sweet corn, fresh market-train harvest (shipping)  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed +App Fert	4 Row	2WD 75 hp	0.141	1.00	Mar	1.39	0.94	0.20	0.67	0.21	2.02				5.22
Fert 13-13-13	cwt											7.5000	12.00	90.00	90.00
Cultivate	4 Row	2WD 75 hp	0.193	1.00	Mar	1.91	1.29	0.35	1.17	0.19	1.98				6.70
Plntr-vacuum+insect	4R30-40"	2WD 75 hp	0.226	1.00	Mar	2.24	1.50	17.16	36.41	0.22	2.31				59.62
Sweet Corn - Hybrid	lb											9.0000	12.00	108.00	108.00
Furadan 4 F	pt											2.0000	9.13	18.26	18.26
Cult + App Herb	4 Row	2WD 75 hp	0.193	1.00	Mar	1.91	1.29	0.34	1.12	0.29	2.78				7.44
Bicep II Magnum	pt											4.0000	4.71	18.84	18.84
Cultivate+Sidedress	2 Row	2WD 75 hp	0.390	2.00	Apr	7.72	5.18	1.52	9.64	1.17	11.21				35.27
Amm Nitrate (34%)	cwt											4.0000	16.00	64.00	64.00
Sprayer(300-450gal)	47 ft		0.022	7.00	May	2.45	4.04			0.15	1.61				8.10
Lannate LV	pt											9.1000	7.10	64.61	64.61
Sprayer(300-450gal)	47 ft		0.022	3.00	Jun	1.05	1.73			0.06	0.69				3.47
Lannate LV	pt											3.9000	7.10	27.69	27.69
Mule Train (Corn)	30 ft	2WD 75 hp	0.229	1.00	Jun	2.26	1.52	10.50	97.29	7.56	63.06				174.63
Trailer(MuleTrn)Corn	16 ft	2WD 75 hp	0.229	1.00	Jun	2.26	1.52	1.78	3.84	0.68	6.14				15.54
Crates - Sweet Corn	each			1.00	Jun							200.0000	1.25	250.00	250.00
Ice + Cooling	crat											200.0000	0.70	140.00	140.00
TOTALS						29.29	23.10	33.54	154.39	11.18	98.10			801.20	1139.62
INTEREST ON OPERATING CAPITAL															15.92
UNALLOCATED LABOR															5.81
TOTAL SPECIFIED COST															1161.35

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

Table 16.B Estimated costs per acre  
 Sweet corn, fresh market-train harvest (shipping)  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Fert 13-13-13	cwt	12.00	7.5000	90.00	_____
Amm Nitrate (34%)	cwt	16.00	4.0000	64.00	_____
HERBICIDE					
Bicep II Magnum	pt	4.71	4.0000	18.84	_____
INSECTICIDE					
Furadan 4 F	pt	9.13	2.0000	18.26	_____
Lannate LV	pt	7.10	13.0000	92.30	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	12.00	9.0000	108.00	_____
OTHER					
Crates - Sweet Corn	each	1.25	200.0000	250.00	_____
Ice + Cooling	crat	0.70	200.0000	140.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	2.6119	26.67	_____
Self-Propelled	hour	10.21	0.2250	2.30	_____
HARVEST LABOR					
Implements	hour	8.28	7.7917	64.52	_____
HAND LABOR					
Implements	hour	8.28	0.5580	4.61	_____
UNALLOCATED LABOR	hour	10.23	0.5673	5.81	_____
DIESEL FUEL					
Tractors	gal	2.33	10.0830	23.49	_____
Self-Propelled	gal	2.33	1.1871	2.77	_____
REPAIR & MAINTENANCE					
Implements	acre	33.54	1.0000	33.54	_____
Tractors	acre	2.30	1.0000	2.30	_____
Self-Propelled	acre	0.73	1.0000	0.73	_____
INTEREST ON OP. CAP.	acre	15.92	1.0000	15.92	_____
TOTAL DIRECT EXPENSES				983.86	_____
FIXED EXPENSES					
Implements	acre	154.39	1.0000	154.39	_____
Tractors	acre	17.33	1.0000	17.33	_____
Self-Propelled	acre	5.77	1.0000	5.77	_____
TOTAL FIXED EXPENSES				177.49	_____
TOTAL SPECIFIED EXPENSES				1161.35	_____

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

Table 16.C Estimated monthly income and expense flows per acre  
 Sweet corn, fresh market-train harvest (shipping)  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	90.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	18.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	18.26	0.00	64.61	27.69	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.56	10.64	12.81	1.93	70.97	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	5.55	6.79	7.03	1.94	4.95	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.24	18.71	2.21	0.51	12.90	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	0.56	7.92	1.88	1.00	3.69	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	15.91	279.16	87.93	69.99	510.20	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-15.91	-279.16	-87.93	-69.99	-510.20	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-36.58	-315.74	-403.67	-473.66	-983.86	-983.86	-983.86	-983.86	-983.86	-983.86	-983.86

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

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

\* Lease costs are based on hourly usage costs.

Table 16.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
Sweet corn, fresh market-train harvest (shipping)  
Mississippi, MALTAG, 2008

Sweet Corn			-----BREAKEVEN PRICE-----										
			4.52	4.70	4.92	5.16	5.45	5.80	6.23	6.76	7.45	8.36	9.64
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-334	-316	-295	-270	-241	-206	-164	-110	-42	49	177
			-512	-494	-472	-448	-419	-384	-341	-288	-219	-128	0
60	120.00	5doz	-283	-261	-236	-206	-171	-129	-78	-14	67	177	331
			-461	-439	-413	-384	-349	-307	-256	-192	-109	0	153
70	140.00	5doz	-232	-206	-177	-142	-101	-53	6	81	177	305	484
			-409	-384	-354	-320	-279	-230	-170	-96	0	128	307
80	160.00	5doz	-181	-151	-118	-78	-32	23	92	177	287	433	638
			-358	-329	-295	-256	-209	-153	-85	0	109	256	461
90	180.00	5doz	-129	-96	-58	-14	37	100	177	273	397	561	792
			-307	-274	-236	-192	-139	-76	0	96	219	384	614
100	200.00	5doz	-78	-42	0	49	107	177	262	369	506	689	946
			-256	-219	-177	-128	-69	0	85	192	329	512	768
110	220.00	5doz	-27	12	59	113	177	254	348	465	616	817	1099
			-204	-164	-118	-64	0	76	170	288	439	640	922
120	240.00	5doz	23	67	118	177	247	331	433	561	726	946	1253
			-153	-109	-59	0	69	153	256	384	548	768	1075
130	260.00	5doz	75	122	177	241	317	408	519	657	836	1074	1407
			-102	-54	0	64	139	230	341	480	658	896	1229
140	280.00	5doz	126	177	236	305	387	484	604	753	946	1202	1560
			-51	0	59	128	209	307	426	576	768	1024	1383
150	300.00	5doz	177	232	295	369	456	561	689	849	1055	1330	1714
			0	54	118	192	279	384	512	672	878	1152	1537

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 17.A Estimated resource use and costs for field operations, per acre  
Sweet potatoes  
Mississippi, MALTAG, 2008

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-----			
Trapping	acre			1.00	Apr							1.0000	1.00	1.00	1.00
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	Apr	0.52	0.58	0.10	0.15	0.04	0.41	2.0000	2.35	4.70	1.76
Glystar Plus	pt											1.0000	9.00	9.00	4.70
Disk Harrow	24 ft	MFWD 170	0.082	2.00	Apr	3.96	4.53	1.24	3.27	0.16	1.69	7.5000	24.10	180.75	14.69
Chisel Plow Folding	16 ft	MFWD 170	0.116	1.00	Apr	2.79	3.20	0.47	1.04	0.11	1.19	4.0000	4.40	17.60	8.69
Custom Apply Fert	acre			1.00	Apr							1.0000	9.00	9.00	9.00
Fert 5-20-30+S+B	cwt											7.5000	24.10	180.75	180.75
Lorsban 4E	pt											4.0000	4.40	17.60	17.60
Disk Bed (Hipper)	8R 40	MFWD 130	0.070	1.80	May	2.33	2.60	0.51	1.70	0.12	1.30				8.44
Disk Bed + Spray PD	8R 40	MFWD 130	0.070	0.20	May	0.26	0.29	0.09	0.28	0.01	0.14				1.06
K-Pam	Gal											1.6000	7.50	12.00	12.00
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	May	0.52	0.58	0.10	0.15	0.04	0.41				1.76
Valor	oz											2.0000	4.32	8.64	8.64
Trailer-Sweet Potato	16 ft	MFWD 130	0.598	1.00	May	10.98	12.28	4.65	10.04	0.59	6.11				44.06
Sweetpotato Plants	thous											12.0000	25.00	300.00	300.00
Trailer Water	10 ft	MFWD 130	0.600	1.00	May	10.99	12.30	0.26	0.94	0.60	6.13				30.62
Plnt/Transplants	8R 42	MFWD 170	0.333	1.00	May	7.98	9.13	0.07	6.82	5.66	56.73				80.73
Crate Sweetpotato	each											2.0000	8.00	16.00	16.00
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	May	0.52	0.58	0.10	0.15	0.04	0.41				1.76
Command 3ME	pt											2.0000	12.75	25.50	25.50
Endosulfan 3E	pt											1.3400	3.06	4.10	4.10
Ditcher		MFWD 130	0.020	1.00	May	0.36	0.41	0.03	0.06	0.02	0.20				1.06
Scouting Sweetpotato	acre			1.00	May							1.0000	15.00	15.00	15.00
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	May	0.52	0.58	0.10	0.15	0.04	0.41				1.76
Capture 2EC	oz											3.2000	2.59	8.29	8.29
Cultivate	8R-42	MFWD 130	0.073	1.00	May	1.35	1.51	0.33	1.10	0.07	0.75				5.04
Ditcher		MFWD 130	0.020	1.00	May	0.36	0.41	0.03	0.06	0.02	0.20				1.06
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	Jun	0.52	0.58	0.10	0.15	0.04	0.41				1.76
PennCap-M	pt											2.0000	11.37	22.74	22.74
Cultivate	8R-42	MFWD 130	0.073	1.00	Jun	1.35	1.51	0.33	1.10	0.07	0.75				5.04
Ditcher		MFWD 130	0.020	1.00	Jun	0.36	0.41	0.03	0.06	0.02	0.20				1.06
Spray (Broadcast)	60 ft	MFWD 130	0.028	0.50	Jul	0.26	0.29	0.05	0.08	0.02	0.20				0.88
Poast 1.53	pt											0.5000	8.46	4.23	4.23
Spray (Broadcast)	60 ft	MFWD 130	0.028	1.00	Jul	0.52	0.58	0.10	0.15	0.04	0.41				1.76
Capture 2EC	oz											3.2000	2.59	8.29	8.29
Hand Weeding Swt.Pot	acre			1.00	Jul							1.0000	20.00	20.00	20.00
Stalk Shredder-Flail	15 ft	MFWD 130	0.110	1.00	Sep	2.03	2.27	0.36	1.27	0.11	1.13				7.06
Trailer-Sweet Potato	16 ft	MFWD 130	0.598	1.00	Sep	10.98	12.28	4.65	10.04	0.59	6.11				44.06
SWEET POTATO LABOR	hour											1.00	10.00	10.00	10.00
Truck	1/2 ton		2.310	1.00	Sep	10.60	13.65					2.31	23.59	47.84	47.84
Truck	1 ton +		1.730	1.00	Sep	4.12	17.73					1.73	17.66	39.51	39.51
Harvester, Swt. Potato	2-Row	MFWD 170	1.011	1.00	Sep	24.19	27.70	5.88	11.54	7.07	60.55				129.86
SWEET POTATO LABOR	hour									30.00	300.00				300.00
Bin Repair	each											2.0000	60.00	120.00	120.00
Custom Skid Loader				1.00	Sep										45.78
SKID LOADER LABOR-2	hour									2.18	45.78				45.78
Custom Skid Loader-2	acre											1.0000	13.63	13.63	13.63
Fuel Skid Loader (2)	acre											1.0000	9.64	9.64	9.64
Fork Lift			2.220	1.00	Sep	5.73	9.19			2.22	22.67				37.59
Custom Haul Swt. Pot	acre			1.00	Sep							1.0000	70.00	70.00	70.00
Storage Sweetpotato	cwt			1.00	Sep							112.0000	2.00	224.00	224.00
Clean, grade, pack	box			1.00	Sep							330.0000	2.00	660.00	660.00
Box Sweetpotato	each											330.0000	1.26	415.80	415.80
Broker Sweetpotato	box			1.00	Sep							330.0000	1.00	330.00	330.00
TOTALS						104.10	135.17	19.58	50.30	54.99	565.54			2500.91	3375.60
INTEREST ON OPERATING CAPITAL															47.59
UNALLOCATED LABOR															21.10
TOTAL SPECIFIED COST															3444.29

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

Table 17.B Estimated costs per acre  
Sweet potatoes  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Trapping	acre	1.00	1.0000	1.00	_____
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
Scouting Sweetpotato	acre	15.00	1.0000	15.00	_____
Custom Skid Loader-2	acre	13.63	1.0000	13.63	_____
Fuel Skid Loader (2)	acre	9.64	1.0000	9.64	_____
Custom Haul Swt. Pot	acre	70.00	1.0000	70.00	_____
FERTILIZER					
Fert 5-20-30+S+B	cwt	24.10	7.5000	180.75	_____
HERBICIDE					
Glystar Plus	pt	2.35	2.0000	4.70	_____
Valor	oz	4.32	2.0000	8.64	_____
Command 3ME	pt	12.75	2.0000	25.50	_____
Poast 1.53	pt	8.46	0.5000	4.23	_____
INSECTICIDE					
Lorsban 4E	pt	4.40	4.0000	17.60	_____
K-Pam	Gal	7.50	1.6000	12.00	_____
Endosulfan 3E	pt	3.06	1.3400	4.10	_____
Capture 2EC	oz	2.59	6.4000	16.58	_____
Penncap-M	pt	11.37	2.0000	22.74	_____
SEED/PLANTS					
Sweetpotato Plants	thous	25.00	12.0000	300.00	_____
OTHER					
Crate Sweetpotato	each	8.00	2.0000	16.00	_____
Hand Weeding Swt.Pot	acre	20.00	1.0000	20.00	_____
Bin Repair	each	60.00	2.0000	120.00	_____
Storage Sweetpotato	cwt	2.00	112.0000	224.00	_____
Clean, grade, pack	box	2.00	330.0000	660.00	_____
Box Sweetpotato	each	1.26	330.0000	415.80	_____
Broker Sweetpotato	box	1.00	330.0000	330.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.0664	41.50	_____
Self-Propelled	hour	10.21	6.2600	63.92	_____
HAND LABOR					
Implements	hour	8.28	6.1578	51.01	_____
SWEET POTATO LABOR					
Special Labor	hour	10.00	31.0000	310.00	_____
Implements	hour	10.00	5.3333	53.33	_____
SKID LOADER LABOR-2					
Special Labor	hour	21.00	2.1800	45.78	_____
UNALLOCATED LABOR					
	hour	10.21	2.0652	21.10	_____
DIESEL FUEL					
Tractors	gal	2.33	30.5585	71.21	_____
Self-Propelled	gal	2.33	1.2456	2.90	_____
GASOLINE					
Self-Propelled	gal	2.73	3.1416	8.58	_____
LP GAS					
Self-Propelled	gal	1.88	2.3754	4.47	_____
REPAIR & MAINTENANCE					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	12.44	1.0000	12.44	_____
Self-Propelled	acre	4.50	1.0000	4.50	_____
INTEREST ON OP. CAP.	acre	47.59	1.0000	47.59	_____
TOTAL DIRECT EXPENSES				3258.82	_____
FIXED EXPENSES					
Implements	acre	50.30	1.0000	50.30	_____
Tractors	acre	94.60	1.0000	94.60	_____
Self-Propelled	acre	40.57	1.0000	40.57	_____
TOTAL FIXED EXPENSES				185.47	_____
TOTAL SPECIFIED EXPENSES				3444.29	_____

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



Table 17.C Estimated monthly income and expense flows per acre  
 Sweet potatoes  
 Mississippi, MALTAG, 2008

ITEM	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	10.00	15.00	0.00	0.00	0.00	93.27	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	180.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	4.70	34.14	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	17.60	24.39	22.74	8.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	16.00	0.00	20.00	0.00	1749.80	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.93	76.62	1.61	0.70	0.00	503.78	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.19	30.78	1.90	0.66	0.00	47.63	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.89	11.66	0.79	0.27	0.00	20.91	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	9.90	18.55	0.79	0.74	0.00	17.61	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	235.96	527.14	27.83	34.89	0.00	2433.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-235.96	-527.14	-27.83	-34.89	0.00	-2433.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-235.96	-763.10	-790.93	-825.82	-825.82	-3258.82	-3258.82	-3258.82	-3258.82	-3258.82	-3258.82	-3258.82

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

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

\* Lease costs are based on hourly usage costs.

Table 17.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
Sweet potatoes  
Mississippi, MALTAG, 2008

Sweet Potatoes			-----BREAKEVEN PRICE-----										
			8.38	8.82	9.33	9.93	10.63	11.48	12.51	13.80	15.46	17.68	20.78
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	40lb	-1675	-1608	-1531	-1442	-1336	-1209	-1054	-861	-611	-279	185
			-1860	-1794	-1717	-1628	-1522	-1395	-1240	-1046	-797	-465	0
60	180.00	40lb	-1489	-1409	-1317	-1209	-1083	-930	-744	-512	-213	185	743
			-1674	-1594	-1502	-1395	-1268	-1116	-930	-697	-398	0	558
70	210.00	40lb	-1302	-1209	-1102	-977	-829	-651	-434	-163	185	650	1301
			-1488	-1395	-1288	-1162	-1014	-837	-620	-348	0	465	1116
80	240.00	40lb	-1116	-1010	-887	-744	-575	-372	-124	185	584	1115	1859
			-1302	-1196	-1073	-930	-761	-558	-310	0	398	930	1674
90	270.00	40lb	-930	-811	-673	-512	-321	-93	185	534	982	1580	2418
			-1116	-996	-858	-697	-507	-279	0	348	797	1395	2232
100	300.00	40lb	-744	-611	-458	-279	-68	185	495	883	1381	2046	2976
			-930	-797	-644	-465	-253	0	310	697	1196	1860	2790
110	330.00	40lb	-558	-412	-243	-47	185	464	805	1232	1780	2511	3534
			-744	-598	-429	-232	0	279	620	1046	1594	2325	3349
120	360.00	40lb	-372	-213	-29	185	439	743	1115	1580	2178	2976	4092
			-558	-398	-214	0	253	558	930	1395	1993	2790	3907
130	390.00	40lb	-186	-13	185	418	692	1022	1425	1929	2577	3441	4650
			-372	-199	0	232	507	837	1240	1744	2392	3256	4465
140	420.00	40lb	-0	185	400	650	946	1301	1735	2278	2976	3906	5209
			-186	0	214	465	761	1116	1550	2093	2790	3721	5023
150	450.00	40lb	185	384	614	883	1200	1580	2046	2627	3375	4371	5767
			0	199	429	697	1014	1395	1860	2442	3189	4186	5581

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 18.A Estimated resource use and costs for field operations, per acre  
 Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.3300	40.00	13.20	13.20
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Cyclone Spin	825 Lb	2WD 75 hp	0.084	1.00	Mar	0.83	0.56	0.05	0.23	0.08	0.86				2.53
Amm Nitrate (34%)	cwt											1.1700	16.00	18.72	18.72
Phosphorus(46% P205)	cwt											2.6000	14.00	36.40	36.40
Potash (60% K20)	cwt											2.0000	13.00	26.00	26.00
Disk + Incorporate	10 Ft	2WD 75 hp	0.206	1.00	Mar	2.04	1.37	0.98	2.15	0.30	2.96				9.50
Diazion AG500	pt											3.0000	4.96	14.88	14.88
Treflan HFP	pt											0.7500	2.35	1.76	1.76
BS,L,T,FumigTomato	6ftctr	2WD 75 hp	1.078	1.00	Mar	10.66	7.15	3.23	11.97	4.31	37.80				70.81
Plastic Mulch	roll											1.8000	162.00	291.60	291.60
Drip Tape	roll											1.2000	156.00	187.20	187.20
Mythl Bromide 67/33	lb											200.0000	3.65	730.00	730.00
Plntr/H2O Tomato	1R 6ftcrt	2WD 75 hp	1.718	1.00	Apr	16.98	11.40	2.09	4.51	6.87	60.24				95.22
PLANTING LABOR	hour									30.00	248.40				248.40
Tomato Plants-Hybrid	thous											4.4000	96.78	425.83	425.83
Fert 15-30-15	lb											37.5000	0.18	6.75	6.75
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											30.0000	0.20	6.00	6.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Bravo Weather Stick	pt											4.0000	5.57	22.28	22.28
Asana XL	oz											12.0000	0.71	8.52	8.52
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											30.0000	0.20	6.00	6.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Guthion 50WSP	lb											3.0000	10.19	30.57	30.57
Quadris	oz											10.0000	1.97	19.70	19.70
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Calcium Nitrate	lbs											60.0000	0.20	12.00	12.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Quadris	oz											10.0000	1.97	19.70	19.70
Guthion 50WSP	lb											3.0000	10.19	30.57	30.57
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Asana XL	oz											12.0000	0.71	8.52	8.52
Bravo Weather Stick	pt											4.0000	5.57	22.28	22.28
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Calcium Nitrate	lbs											30.0000	0.20	6.00	6.00
HAND & STOR LABOR	hour			1.00	May					10.00	82.80				82.80
Wood Stakes	100											44.0000	15.00	660.00	660.00
Plastic string	6000ft											4.0000	8.00	32.00	32.00

(continued)

Table 18.A Estimated resource use and costs for field operations, per acre  
 Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2007 (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-----				
Fertigate CAN03/KN03				3.00	May											
FERTIGATION LABOR	hour										3.00	24.84				24.84
Calcium Nitrate	lbs												90.0000	0.20	18.00	18.00
Sucker Control				1.00	Jun											
HAND LABOR	hour										5.00	41.40				41.40
Fertigate CAN03/KN03				1.00	Jun											
FERTIGATION LABOR	hour										1.00	8.28				8.28
Calcium Nitrate	lbs												30.0000	0.20	6.00	6.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Jun	4.85	3.26	19.67	44.25	0.49	5.01					77.04
Bravo Weather Stick	pt												4.0000	5.57	22.28	22.28
Asana XL	oz												12.0000	0.71	8.52	8.52
Fertigate CAN03/KN03				3.00	Jun											
FERTIGATION LABOR	hour										3.00	24.84				24.84
Calcium Nitrate	lbs												90.0000	0.20	18.00	18.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51					38.52
Asana XL	oz												6.0000	0.71	4.26	4.26
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jul	0.89	0.60	0.04	0.09	0.18	1.67					3.29
CustomHarvest Tomato	box			1.00	Jul								1600.0000	1.00	1600.00	1600.00
5-Gal Bucket	each												200.0000	3.00	600.00	600.00
GRADE & PACK LABOR	hour			1.00	Jul						320.00	2649.60				2649.60
Box Tomato	box												1600.0000	1.49	2384.00	2384.00
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Jul	5.82	3.91	0.11	3.03	0.58	6.02					18.89
LABOR MULCH CLEANUP	hour										15.00	124.20				124.20
Irrigation Setup	acre				Apr									1.0000		467.23
TOTALS							70.00	47.01	116.37	269.60	407.66	3389.17			7747.60	12106.98
INTEREST ON OPERATING CAPITAL																169.85
UNALLOCATED LABOR																14.44
TOTAL SPECIFIED COST																12291.27

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 18.B Estimated costs per acre  
Tomatoes, fresh market, irrigated  
6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
CustomHarvest Tomato	box	1.00	1600.0000	1600.00	_____
FERTILIZER					
Lime (Spread)	ton	40.00	0.3300	13.20	_____
Amm Nitrate (34%)	cwt	16.00	1.1700	18.72	_____
Phosphorus(46% P205)	cwt	14.00	2.6000	36.40	_____
Potash (60% K20)	cwt	13.00	2.0000	26.00	_____
Fert 15-30-15	lb	0.18	37.5000	6.75	_____
Calcium Nitrate	lbs	0.20	360.0000	72.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	5.57	12.0000	66.84	_____
Quadris	oz	1.97	20.0000	39.40	_____
HERBICIDE					
Treflan HFP	pt	2.35	0.7500	1.76	_____
INSECTICIDE					
Diazion AG500	pt	4.96	3.0000	14.88	_____
Asana XL	oz	0.71	42.0000	29.82	_____
Guthion 50WSP	lb	10.19	6.0000	61.14	_____
SEED/PLANTS					
Tomato Plants-Hybrid	thous	96.78	4.4000	425.83	_____
OTHER					
Plastic Mulch	roll	162.00	1.8000	291.60	_____
Mythl Bromide 67/33	lb	3.65	200.0000	730.00	_____
Wood Stakes	100	15.00	44.0000	660.00	_____
Plastic string	6000ft	8.00	4.0000	32.00	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Box Tomato	box	1.49	1600.0000	2384.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.2000	187.20	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.0847	72.33	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	320.0000	2649.60	_____
HAND & STOR LABOR					
Special Labor	hour	8.28	10.0000	82.80	_____
HAND LABOR					
Special Labor	hour	8.28	5.0000	41.40	_____
Implements	hour	8.28	8.5846	71.08	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	12.0000	99.36	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR	hour	10.19	1.4169	14.44	_____
DIESEL FUEL					
Tractors	gal	2.33	27.3500	63.75	_____
REPAIR & MAINTENANCE					
Implements	acre	116.37	1.0000	116.37	_____
Tractors	acre	6.25	1.0000	6.25	_____
INTEREST ON OP. CAP.	acre	169.85	1.0000	169.85	_____
TOTAL DIRECT EXPENSES				11507.43	_____
FIXED EXPENSES					
Implements	acre	269.60	1.0000	269.60	_____
Tractors	acre	47.01	1.0000	47.01	_____
Irrigation Setup	acre	467.23	1.0000	467.23	_____
TOTAL FIXED EXPENSES				783.84	_____
TOTAL SPECIFIED EXPENSES				12291.27	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 18.C Estimated monthly income and expense flows per acre  
 Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	13.20	81.12	30.75	24.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	41.98	41.98	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	14.88	39.09	39.09	8.52	4.26	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	425.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	1021.60	0.00	692.00	0.00	2984.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	187.20	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	49.27	357.29	127.94	80.53	2785.88	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	15.89	24.30	8.84	4.42	8.32	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	6.98	43.81	40.20	20.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.82	50.25	41.23	21.31	2.32	53.92	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	19.43	1428.95	1454.34	995.36	162.17	7447.18	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-19.43	-1428.95	-1454.34	-995.36	-162.17	-7447.18	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-19.43	-1448.38	-2902.72	-3898.08	-4060.25	-11507.43	-11507.43	-11507.43	-11507.43	-11507.43	-11507.43	-11507.43

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 18.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

Tomatoes			-----BREAKEVEN PRICE-----										
			5.95	6.20	6.48	6.81	7.21	7.68	8.25	8.97	9.89	11.13	12.85
PERCENT	YIELD	UNIT	-----dollars-----										
50	800.00	251b	-4734	-4537	-4310	-4045	-3731	-3355	-2895	-2320	-1581	-595	783
			-5518	-5321	-5094	-4828	-4515	-4139	-3679	-3104	-2365	-1379	0
60	960.00	251b	-4183	-3946	-3673	-3355	-2978	-2527	-1975	-1285	-398	783	2439
			-4966	-4730	-4457	-4139	-3762	-3311	-2759	-2069	-1182	0	1655
70	1120.00	251b	-3631	-3355	-3036	-2665	-2226	-1699	-1055	-250	783	2163	4095
			-4415	-4139	-3820	-3449	-3010	-2483	-1839	-1034	0	1379	3311
80	1280.00	251b	-3079	-2763	-2400	-1975	-1473	-871	-135	783	1966	3543	5750
			-3863	-3547	-3183	-2759	-2257	-1655	-919	0	1182	2759	4966
90	1440.00	251b	-2527	-2172	-1763	-1285	-721	-43	783	1818	3149	4922	7406
			-3311	-2956	-2547	-2069	-1505	-827	0	1034	2365	4139	6622
100	1600.00	251b	-1975	-1581	-1126	-595	31	783	1703	2853	4331	6302	9062
			-2759	-2365	-1910	-1379	-752	0	919	2069	3547	5518	8278
110	1760.00	251b	-1423	-990	-489	93	783	1611	2623	3888	5514	7682	10717
			-2207	-1773	-1273	-689	0	827	1839	3104	4730	6898	9933
120	1920.00	251b	-871	-398	147	783	1536	2439	3543	4922	6696	9062	12373
			-1655	-1182	-636	0	752	1655	2759	4139	5913	8278	11589
130	2080.00	251b	-319	192	783	1473	2288	3267	4463	5957	7879	10441	14028
			-1103	-591	0	689	1505	2483	3679	5173	7095	9657	13245
140	2240.00	251b	231	783	1420	2163	3041	4095	5382	6992	9062	11821	15684
			-551	0	636	1379	2257	3311	4599	6208	8278	11037	14900
150	2400.00	251b	783	1375	2057	2853	3794	4922	6302	8027	10244	13201	17340
			0	591	1273	2069	3010	4139	5518	7243	9460	12417	16556

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 19.A Estimated resource use and costs for field operations, per acre  
 Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			1.00	Jan							1.5000	40.00	60.00	60.00
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Feb	1.96	1.32	0.58	1.53	0.19	2.02				7.41
BS.lay/tape/Melon	8ftctr	2WD 75 hp	0.808	1.00	Mar	8.00	5.36	2.06	7.62	0.80	8.26				31.30
Plastic Mulch	roll											1.4000	162.00	226.80	226.80
Drip Tape	roll											0.9000	156.00	140.40	140.40
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.62	0.42	0.15	0.23	0.09	0.90				2.32
Strategy	pt											2.0000	9.87	19.74	19.74
Plntr/H2O Melon	1R 8ftctr	2WD 75 hp	0.645	1.00	Mar	6.37	4.28	1.06	2.27	2.58	22.62				36.60
Watermelon - Hybrid	thous											1.8000	89.00	160.20	160.20
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigate CAN03/KN03				1.00	Mar										
FERTIGATION LABOR	hour									1.00	8.28				8.28
CalciumNitrateMelon	lb											89.0000	0.20	17.80	17.80
Potash (60% K20)	cwt											0.5000	13.00	6.50	6.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Endosulfan 3E	pt											2.6600	3.06	8.14	8.14
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
CalciumNitrateMelon	lb											89.0000	0.20	17.80	17.80
Potash (60% K20)	cwt											0.5000	13.00	6.50	6.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Endosulfan 3E	pt											2.6600	3.06	8.14	8.14
Fertigate CAN03/KN03				4.00	Apr										
FERTIGATION LABOR	hour									4.00	33.12				33.12
CalciumNitrateMelon	lb											356.0000	0.20	71.20	71.20
Potash (60% K20)	cwt											2.0000	13.00	26.00	26.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Bravo Weather Stick	pt											4.0000	5.57	22.28	22.28
Quadris	oz											22.0000	1.97	43.34	43.34
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	8.28				8.28
CalciumNitrateMelon	lb											89.0000	0.20	17.80	17.80
Potash (60% K20)	cwt											0.5000	13.00	6.50	6.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Bravo Weather Stick	pt											2.0000	5.57	11.14	11.14
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	16.56				16.56
CalciumNitrateMelon	lb											178.0000	0.20	35.60	35.60
Potash (60% K20)	cwt											1.0000	13.00	13.00	13.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Asana XL	oz											6.0000	0.71	4.26	4.26

(continued)



Table 19.A Estimated resource use and costs for field operations, per acre  
 Watermelons, irrigated  
 8 ft spacing with 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008(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-----				
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	4.00	Jun	3.56	2.39	0.17	0.36	0.72	6.66					13.14
Harvest Labor Melons	cwt			1.00	Jun							200.0000	2.00	400.00		400.00
Pallet Crates-1000lb each												20.0000	12.00	240.00		240.00
Plastic Clean Up				1.00	Jun											
Mulch Lifter	1 Row	2WD 75 hp	0.589			5.82	3.91	0.11	3.03	0.58	6.02					18.89
LABOR MULCH CLEANUP	hour									15.00	124.20					124.20
Irrigation Setup	acre				Mar								1.0000			459.10
TOTALS						43.08	28.92	63.65	148.95	30.68	262.50				2013.20	3019.40
INTEREST ON OPERATING CAPITAL																48.28
UNALLOCATED LABOR																8.89
TOTAL SPECIFIED COST																3076.57

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Table 19.B Estimated costs per acre  
 Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	1.5000	60.00	_____
CalciumNitrateMelon	lb	0.20	801.0000	160.20	_____
Potash (60% K20)	cwt	13.00	4.5000	58.50	_____
FUNGICIDE					
Bravo Weather Stick	pt	5.57	6.0000	33.42	_____
Quadris	oz	1.97	22.0000	43.34	_____
HERBICIDE					
Strategy	pt	9.87	2.0000	19.74	_____
INSECTICIDE					
Endosulfan 3E	pt	3.06	5.3200	16.28	_____
Asana XL	oz	0.71	6.0000	4.26	_____
SEED/PLANTS					
Watermelon - Hybrid	thous	89.00	1.8000	160.20	_____
OTHER					
Plastic Mulch	roll	162.00	1.4000	226.80	_____
Harvest Labor Melons	cwt	2.00	200.0000	400.00	_____
Pallet Crates-1000lb	each	12.00	20.0000	240.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	0.9000	140.40	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.3578	44.51	_____
HAND LABOR					
Implements	hour	8.28	2.3268	19.27	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	9.0000	74.52	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR	hour	10.20	0.8715	8.89	_____
DIESEL FUEL					
Tractors	gal	2.33	16.8230	39.20	_____
REPAIR & MAINTENANCE					
Implements	acre	63.65	1.0000	63.65	_____
Tractors	acre	3.88	1.0000	3.88	_____
INTEREST ON OP. CAP.	acre	48.28	1.0000	48.28	_____
TOTAL DIRECT EXPENSES				2439.60	_____
FIXED EXPENSES					
Implements	acre	148.95	1.0000	148.95	_____
Tractors	acre	28.92	1.0000	28.92	_____
Irrigation Setup	acre	459.10	1.0000	459.10	_____
TOTAL FIXED EXPENSES				636.97	_____
TOTAL SPECIFIED EXPENSES				3076.57	_____

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Irrigation implies 6 acre inches applied as needed over the  
 production period for both fertigation and water needs.

Table 19.C Estimated monthly income and expense flows per acre  
 Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	60.00	0.00	24.30	121.50	72.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	76.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	19.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	16.28	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	160.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	226.80	0.00	0.00	640.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	590.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	5.12	43.16	47.42	33.86	141.83	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	3.76	13.64	4.42	6.63	10.75	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.49	4.62	20.10	30.15	11.17	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.63	0.38	31.59	4.58	3.20	5.90	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	62.63	10.75	1114.51	214.30	223.50	813.91	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-62.63	-10.75	-1114.51	-214.30	-223.50	-813.91	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-62.63	-73.38	-1187.89	-1402.19	-1625.69	-2439.60	-2439.60	-2439.60	-2439.60	-2439.60	-2439.60	-2439.60

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

\* Lease costs are based on hourly usage costs.

Table 19.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Watermelons			10.92	11.56	12.29	13.15	14.16	15.38	16.86	18.72	21.11	24.29	28.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	cwt	-1145	-1081	-1008	-922	-821	-699	-551	-365	-126	191	636
			-1782	-1718	-1645	-1559	-1458	-1336	-1188	-1002	-763	-445	0
60	120.00	cwt	-967	-890	-802	-699	-578	-432	-254	-31	255	636	1171
			-1604	-1527	-1439	-1336	-1215	-1069	-891	-668	-381	0	534
70	140.00	cwt	-788	-699	-597	-477	-335	-165	42	302	636	1082	1706
			-1425	-1336	-1233	-1114	-972	-802	-594	-334	0	445	1069
80	160.00	cwt	-610	-508	-391	-254	-92	102	339	636	1018	1528	2241
			-1247	-1145	-1028	-891	-729	-534	-297	0	381	891	1604
90	180.00	cwt	-432	-317	-185	-31	150	369	636	971	1400	1973	2775
			-1069	-954	-822	-668	-486	-267	0	334	763	1336	2138
100	200.00	cwt	-254	-126	19	191	393	636	934	1305	1782	2419	3310
			-891	-763	-616	-445	-243	0	297	668	1145	1782	2673
110	220.00	cwt	-76	64	225	414	636	904	1231	1639	2164	2865	3845
			-712	-572	-411	-222	0	267	594	1002	1527	2228	3208
120	240.00	cwt	102	255	431	636	880	1171	1528	1973	2546	3310	4380
			-534	-381	-205	0	243	534	891	1336	1909	2673	3743
130	260.00	cwt	280	445	636	859	1123	1439	1825	2308	2928	3756	4914
			-356	-190	0	222	486	802	1188	1671	2291	3119	4277
140	280.00	cwt	458	636	842	1082	1366	1706	2122	2642	3310	4201	5449
			-178	0	205	445	729	1069	1485	2005	2673	3564	4812
150	300.00	cwt	636	827	1048	1305	1609	1973	2419	2976	3692	4647	5984
			0	190	411	668	972	1336	1782	2339	3055	4010	5347

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 20.A Estimated resource use and costs for field operations, per acre  
 Organic - Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			1.00	Sep							0.3300	40.00	13.20	13.20
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Sep	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Oct	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Oct	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Bed	2 Row	2WD 75 hp	0.284	2.00	Oct	5.61	3.77	0.38	1.80	0.56	5.80				17.36
BS Lay/Tape BPepper	6ftctr	2WD 75 hp	1.078	1.00	Oct	10.66	7.15	2.03	7.53	1.07	11.01				38.38
Plastic Mulch	roll											1.8000	162.00	291.60	291.60
Drip Tape	roll											1.2000	156.00	187.20	187.20
Cultivate	2 Row	2WD 75 hp	0.390	0.50	Nov	1.93	1.30	0.06	0.39	0.19	1.99				5.67
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Mar	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Mar	5.93	3.98	0.08	0.37	0.60	6.13				16.49
Pepper Plts -Organic	100plt											170.0000	7.77	1320.90	1320.90
Contract Plt BPepper	1000pl											17.0000	13.75	233.75	233.75
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigation				2.00	Mar										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Liquid Fish Fert.	gal											38.0000	15.61	593.18	593.18
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Kocide DF	lb											2.0000	3.42	6.84	6.84
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				2.00	Apr										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Liquid Fish Fert.	gal											38.0000	15.61	593.18	593.18
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Apr	5.93	3.98	0.08	0.37	0.60	6.13				16.49
HAND LABOR	hour									15.00	124.20				124.20
Wood Stakes	100											36.0000	15.00	540.00	540.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Kocide DF	lb											2.0000	3.42	6.84	6.84
Fertigation				2.00	Apr										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Liquid Fish Fert.	gal											38.0000	15.61	593.18	593.18
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Kocide DF	lb											2.0000	3.42	6.84	6.84
Cultivate	2 Row	2WD 75 hp	0.390	1.00	May	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Fertigation				2.00	May										
FERTIGATION LABOR	hour									5.00	41.40				41.40
Liquid Fish Fert.	gal											38.0000	15.61	593.18	593.18

(continued)

Table 20.A Estimated resource use and costs for field operations, per acre  
 Organic - Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008 (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-----			
1st Tying DB String				1.00	May										
HAND LABOR	hour										8.00	66.24			66.24
Plastic string	6000ft												7.0000	8.00	56.00
Fertigation				2.00	May										
FERTIGATION LABOR	hour										5.00	41.40			41.40
Liquid Fish Fert.	gal												38.0000	15.61	593.18
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz												14.0000	5.21	72.94
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz												16.0000	3.12	49.92
2nd Tying DB String				1.00	Jun										
HAND LABOR	hour										5.00	41.40			41.40
Plastic string	6000ft												5.0000	8.00	40.00
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Jun	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Trailer Utility	10 ft	2WD 75 hp	0.600	1.00	Jun	5.93	3.98	0.08	0.37	0.60	6.13				16.49
HAND LABOR	hour										8.00	66.24			66.24
Harvest Labor Pepper	bu												1800.0000	0.70	1260.00
15g tub Bell Pepper	each												30.0000	7.50	225.00
Bin Vegetable	each												8.0000	75.00	600.00
Pack Line B. Peppers				1.00	Jun										
GRADE & PACK LABOR	hour										80.00	662.40			662.40
Boxes-Waxed	each												1800.0000	1.32	2376.00
Rotary Cutter	7 ft	2WD 75 hp	0.169	1.00	Jul	1.67	1.12	0.50	0.44	0.16	1.73				5.46
Take Up Reel (Mulch)	1 Row	2WD 75 hp	0.588	1.00	Jul	5.81	3.90	0.42	1.99	0.58	6.01				18.13
HAND LABOR	hour										12.00	99.36			99.36
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Jul	1.96	1.32	0.58	1.53	0.19	2.02				7.41
S. Peas - Organic	lb												33.0000	33.00	1089.00
Irrigation Setup	acre				Mar								1.0000		467.23
TOTALS						82.96	55.69	54.99	132.44	161.39	1352.56			11830.50	13976.37
INTEREST ON OPERATING CAPITAL															318.99
UNALLOCATED LABOR															17.14
TOTAL SPECIFIED COST															14312.50

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 20.B Estimated costs per acre  
 Organic - Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Contract Plt BPepper	1000pl	13.75	17.0000	233.75	_____
FERTILIZER					
Lime (Spread)	ton	40.00	0.3300	13.20	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
Liquid Fish Fert.	gal	15.61	190.0000	2965.90	_____
FUNGICIDE					
Kocide DF	lb	3.42	6.0000	20.52	_____
Neem Oil	pt	5.27	3.0000	15.81	_____
INSECTICIDE					
Dipel ES	pt	4.04	1.0000	4.04	_____
Azatin EC	oz	5.21	14.0000	72.94	_____
Pyrethrins	oz	3.12	16.0000	49.92	_____
SEED/PLANTS					
Pepper Plts -Organic	100plt	7.77	170.0000	1320.90	_____
S. Peas - Organic	lb	33.00	33.0000	1089.00	_____
OTHER					
Plastic Mulch	roll	162.00	1.8000	291.60	_____
Wood Stakes	100	15.00	36.0000	540.00	_____
Plastic string	6000ft	8.00	12.0000	96.00	_____
Harvest Labor Pepper	bu	0.70	1800.0000	1260.00	_____
15g tub Bell Pepper	each	7.50	30.0000	225.00	_____
Bin Vegetable	each	75.00	8.0000	600.00	_____
Boxes-Waxed	each	1.32	1800.0000	2376.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.2000	187.20	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	8.3940	85.72	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	80.0000	662.40	_____
HAND LABOR					
Special Labor	hour	8.28	48.0000	397.44	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	25.0000	207.00	_____
UNALLOCATED LABOR	hour	10.20	1.6788	17.14	_____
DIESEL FUEL					
Tractors	gal	2.33	32.4042	75.49	_____
REPAIR & MAINTENANCE					
Implements	acre	54.99	1.0000	54.99	_____
Tractors	acre	7.47	1.0000	7.47	_____
INTEREST ON OP. CAP.	acre	318.99	1.0000	318.99	_____
TOTAL DIRECT EXPENSES				13657.14	_____
FIXED EXPENSES					
Implements	acre	132.44	1.0000	132.44	_____
Tractors	acre	55.69	1.0000	55.69	_____
Irrigation Setup	acre	467.23	1.0000	467.23	_____
TOTAL FIXED EXPENSES				655.36	_____
TOTAL SPECIFIED EXPENSES				14312.50	_____

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.  
 Make sure all inputs are allowed by your licensing agency.

Table 20.C Estimated monthly income and expense flows per acre  
 Organic - Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	0.00	233.75	0.00	0.00	0.00	0.00	0.00
FERTILIZER	13.20	18.66	0.00	0.00	0.00	0.00	593.18	1186.36	1186.36	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.22	12.11	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.04	122.86	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	1320.90	0.00	0.00	0.00	1089.00	0.00
OTHER	0.00	291.60	0.00	0.00	0.00	0.00	0.00	540.00	56.00	4501.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	187.20	0.00	0.00	0.00	0.00	450.06	0.00	0.00	0.00	0.00	0.00
LABOR	2.42	34.84	2.39	0.00	0.00	0.00	53.55	220.38	162.86	782.19	111.07	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.78	25.58	1.76	0.00	0.00	0.00	8.91	9.82	10.14	8.91	8.59	0.00
REPAIR & MAINTENANCE	0.76	5.63	0.23	0.00	0.00	0.00	1.08	20.71	30.62	1.08	2.35	0.00
INTEREST ON OP. CAP.	1.46	41.08	0.29	0.00	0.00	0.00	97.04	58.50	34.60	77.19	8.83	0.00
TOTAL DIRECT EXPENSES	19.62	604.59	4.67	0.00	0.00	0.00	2758.47	2064.03	1615.55	5370.37	1219.84	0.00
NET INCOME	-19.62	-604.59	-4.67	0.00	0.00	0.00	-2758.47	-2064.03	-1615.55	-5370.37	-1219.84	0.00
NET INCOME TO DATE	-19.62	-624.21	-628.88	-628.88	-628.88	-628.88	-3387.35	-5451.38	-7066.93	-12437.30	-13657.14	-13657.14

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.



Table 20.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Bell pepper, fresh market (wholesale), irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Bell Pepper			5.74	6.06	6.42	6.84	7.35	7.95	8.68	9.60	10.78	12.35	14.56
PERCENT	YIELD	UNIT	-----dollars-----										
50	900.00	Bu	-7279	-6995	-6668	-6287	-5836	-5295	-4634	-3807	-2745	-1328	655
			-7934	-7651	-7324	-6942	-6491	-5950	-5289	-4463	-3400	-1983	0
60	1080.00	Bu	-6485	-6145	-5753	-5295	-4754	-4105	-3311	-2320	-1044	655	3035
			-7141	-6801	-6408	-5950	-5409	-4760	-3967	-2975	-1700	0	2380
70	1260.00	Bu	-5692	-5295	-4837	-4303	-3672	-2915	-1989	-832	655	2639	5416
			-6347	-5950	-5493	-4959	-4327	-3570	-2644	-1487	0	1983	4760
80	1440.00	Bu	-4898	-4445	-3922	-3311	-2590	-1725	-667	655	2355	4622	7796
			-5554	-5100	-4577	-3967	-3245	-2380	-1322	0	1700	3967	7141
90	1620.00	Bu	-4105	-3595	-3006	-2320	-1508	-534	655	2143	4055	6606	10176
			-4760	-4250	-3662	-2975	-2163	-1190	0	1487	3400	5950	9521
100	1800.00	Bu	-3311	-2745	-2091	-1328	-426	655	1977	3630	5756	8589	12557
			-3967	-3400	-2746	-1983	-1081	0	1322	2975	5100	7934	11901
110	1980.00	Bu	-2518	-1895	-1175	-336	655	1845	3300	5118	7456	10573	14937
			-3173	-2550	-1831	-991	0	1190	2644	4463	6801	9918	14282
120	2160.00	Bu	-1725	-1044	-260	655	1737	3035	4622	6606	9156	12557	17317
			-2380	-1700	-915	0	1081	2380	3967	5950	8501	11901	16662
130	2340.00	Bu	-931	-194	655	1647	2819	4225	5945	8094	10856	14540	19698
			-1586	-850	0	991	2163	3570	5289	7438	10201	13885	19042
140	2520.00	Bu	-138	655	1570	2639	3901	5416	7267	9581	12557	16524	22078
			-793	0	915	1983	3245	4760	6612	8926	11901	15869	21423
150	2700.00	Bu	655	1505	2486	3630	4983	6606	8589	11069	14257	18508	24459
			0	850	1831	2975	4327	5950	7934	10414	13602	17852	23803

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 21.A Estimated resource use and costs for field operations, per acre  
 Organic - Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jul							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Aug	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Aug	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Aug	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Aug	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Plntr/H2O Wheel	2 Row	2WD 75 hp	1.473	1.00	Aug	14.55	9.77	4.62	9.94	8.83	76.03				114.91
PLANTING LABOR	hour									30.00	248.40				248.40
Broccoli - Organic	thous											18.0000	51.55	927.90	927.90
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Aug	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Dipel ES	pt											1.0000	4.04	4.04	4.04
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Sep	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	Sep	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Neem Oil	pt											4.0000	5.27	21.08	21.08
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Nov	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Nov					125.00	1035.00				1035.00
Boxes-Waxed	each											300.0000	1.32	396.00	396.00
Ice + Cooling	box											300.0000	0.75	225.00	225.00
TOTALS						59.73	40.09	86.51	199.66	168.50	1406.86			1717.57	3510.42
INTEREST ON OPERATING CAPITAL															58.03
UNALLOCATED LABOR															12.33
TOTAL SPECIFIED COST															3580.78

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

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

Make sure all inputs are allowed by your licensing agency.

Table 21.B Estimated costs per acre  
 Organic - Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
FUNGICIDE					
Neem Oil	pt	5.27	6.0000	31.62	_____
INSECTICIDE					
Pyrethrins	oz	3.12	32.0000	99.84	_____
Dipel ES	pt	4.04	2.0000	8.08	_____
SEED/PLANTS					
Broccoli - Organic	thous	51.55	18.0000	927.90	_____
OTHER					
Boxes-Waxed	each	1.32	300.0000	396.00	_____
Ice + Cooling	box	0.75	300.0000	225.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	6.0440	61.72	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	7.4560	61.74	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	125.0000	1035.00	_____
UNALLOCATED LABOR	hour	10.20	1.2088	12.33	_____
DIESEL FUEL					
Tractors	gal	2.33	23.3324	54.35	_____
REPAIR & MAINTENANCE					
Implements	acre	86.51	1.0000	86.51	_____
Tractors	acre	5.38	1.0000	5.38	_____
INTEREST ON OP. CAP.	acre	58.03	1.0000	58.03	_____
TOTAL DIRECT EXPENSES				3341.03	_____
FIXED EXPENSES					
Implements	acre	199.66	1.0000	199.66	_____
Tractors	acre	40.09	1.0000	40.09	_____
TOTAL FIXED EXPENSES				239.75	_____
TOTAL SPECIFIED EXPENSES				3580.78	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 21.C Estimated monthly income and expense flows per acre  
 Organic - Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	5.27	26.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	49.92	53.96	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	927.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	357.47	21.86	3.01	1036.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	35.29	16.04	2.21	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	20.44	61.28	10.05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	41.00	3.93	0.28	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	1446.62	183.42	19.59	1670.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-1446.62	-183.42	-19.59	-1670.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-1467.14	-1650.56	-1670.15	-3341.03	-3341.03	-3341.03	-3341.03	-3341.03	-3341.03	-3341.03	-3341.03

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 21.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Broccoli - fall, fresh market  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Broccoli			8.40	8.90	9.48	10.16	10.97	11.93	13.11	14.58	16.48	19.00	22.54
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	211b	-1881	-1805	-1718	-1616	-1495	-1351	-1174	-953	-669	-290	239
			-2121	-2045	-1958	-1856	-1735	-1590	-1414	-1193	-909	-530	0
60	180.00	211b	-1669	-1578	-1473	-1351	-1206	-1033	-820	-555	-214	239	876
			-1909	-1818	-1713	-1590	-1446	-1272	-1060	-795	-454	0	636
70	210.00	211b	-1457	-1351	-1228	-1086	-917	-714	-467	-157	239	770	1512
			-1697	-1590	-1468	-1325	-1157	-954	-707	-397	0	530	1272
80	240.00	211b	-1245	-1123	-984	-820	-628	-396	-113	239	694	1300	2148
			-1484	-1363	-1223	-1060	-867	-636	-353	0	454	1060	1909
90	270.00	211b	-1033	-896	-739	-555	-338	-78	239	637	1148	1830	2785
			-1272	-1136	-979	-795	-578	-318	0	397	909	1590	2545
100	300.00	211b	-820	-669	-494	-290	-49	239	593	1035	1603	2361	3421
			-1060	-909	-734	-530	-289	0	353	795	1363	2121	3181
110	330.00	211b	-608	-442	-249	-25	239	557	946	1432	2057	2891	4058
			-848	-681	-489	-265	0	318	707	1193	1818	2651	3818
120	360.00	211b	-396	-214	-5	239	529	876	1300	1830	2512	3421	4694
			-636	-454	-244	0	289	636	1060	1590	2272	3181	4454
130	390.00	211b	-184	12	239	504	818	1194	1653	2228	2967	3951	5330
			-424	-227	0	265	578	954	1414	1988	2727	3712	5091
140	420.00	211b	27	239	484	770	1107	1512	2007	2626	3421	4482	5967
			-212	0	244	530	867	1272	1767	2386	3181	4242	5727
150	450.00	211b	239	467	729	1035	1396	1830	2361	3023	3876	5012	6603
			0	227	489	795	1157	1590	2121	2784	3636	4772	6363

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 22.A Estimated resource use and costs for field operations, per acre  
 Organic - Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Feb	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Feb	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Feb	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr/H2O Wheel	2 Row	2WD 75 hp	1.473	1.00	Feb	14.55	9.77	4.62	9.94	8.83	76.03				114.91
PLANTING LABOR	hour									30.00	248.40				248.40
Cabbage - Organic	thous											13.2000	49.48	653.14	653.14
Cultivate	2 Row	2WD 75 hp	0.390	3.00	Mar	11.58	7.77	0.37	2.36	1.17	11.96				34.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	5.00	Mar	12.13	8.14	49.16	110.62	1.22	12.53				192.58
Neem Oil	pt											5.0000	5.27	26.35	26.35
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Mar	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Dipel ES	pt											1.0000	4.04	4.04	4.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Dipel ES	pt											1.0000	4.04	4.04	4.04
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29
Harv.Labor S.Cabbage	box			1.00	Jun							600.0000	1.35	810.00	810.00
Grd & Pack S.Cabbage	box			1.00	Jun							600.0000	1.40	840.00	840.00
Box Cabbage	each											600.0000	2.10	1260.00	1260.00
Marketing Fee	box			1.00	Jun							600.0000	1.00	600.00	600.00
CoolingBox S.Cabbage	box			1.00	Jun							600.0000	0.25	150.00	150.00
TOTALS						76.49	51.33	95.86	222.76	45.19	389.16			4539.99	5375.59
INTEREST ON OPERATING CAPITAL															74.05
UNALLOCATED LABOR															15.79
TOTAL SPECIFIED COST															5465.43

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 22.B Estimated costs per acre  
 Organic - Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
FUNGICIDE					
Neem Oil	pt	5.27	5.0000	26.35	_____
INSECTICIDE					
Dipel ES	pt	4.04	4.0000	16.16	_____
Azatin EC	oz	5.21	28.0000	145.88	_____
SEED/PLANTS					
Cabbage - Organic	thous	49.48	13.2000	653.14	_____
OTHER					
Harv.Labor S.Cabbage	box	1.35	600.0000	810.00	_____
Grd & Pack S.Cabbage	box	1.40	600.0000	840.00	_____
Box Cabbage	each	2.10	600.0000	1260.00	_____
Marketing Fee	box	1.00	600.0000	600.00	_____
CoolingBox S.Cabbage	box	0.25	600.0000	150.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.7395	79.02	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	7.4560	61.74	_____
UNALLOCATED LABOR	hour	10.20	1.5479	15.79	_____
DIESEL FUEL					
Tractors	gal	2.33	29.8777	69.60	_____
REPAIR & MAINTENANCE					
Implements	acre	95.86	1.0000	95.86	_____
Tractors	acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	acre	74.05	1.0000	74.05	_____
TOTAL DIRECT EXPENSES				5191.34	_____
FIXED EXPENSES					
Implements	acre	222.76	1.0000	222.76	_____
Tractors	acre	51.33	1.0000	51.33	_____
TOTAL FIXED EXPENSES				274.09	_____
TOTAL SPECIFIED EXPENSES				5465.43	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 22.C Estimated monthly income and expense flows per acre  
 Organic - Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	26.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.04	158.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	653.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	3660.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	353.08	34.18	6.81	9.03	1.85	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	32.07	25.09	5.00	6.63	0.81	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	9.32	52.13	11.03	30.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	38.88	4.03	0.59	2.96	26.72	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	1105.15	141.78	27.47	206.77	3689.50	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-1105.15	-141.78	-27.47	-206.77	-3689.50	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-1125.82	-1267.60	-1295.07	-1501.84	-5191.34	-5191.34	-5191.34	-5191.34	-5191.34	-5191.34	-5191.34

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.



Table 22.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Cabbage - spring, hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Cabbage			6.77	7.11	7.49	7.94	8.47	9.10	9.88	10.85	12.10	13.77	16.10
PERCENT	YIELD	UNIT	-----dollars-----										
50	300.00	50lb	-2523	-2423	-2308	-2173	-2014	-1824	-1590	-1299	-924	-425	274
			-2797	-2697	-2582	-2447	-2288	-2098	-1864	-1573	-1198	-699	0
60	360.00	50lb	-2243	-2123	-1985	-1824	-1633	-1404	-1124	-774	-325	274	1113
			-2517	-2397	-2259	-2098	-1907	-1678	-1398	-1049	-599	0	839
70	420.00	50lb	-1963	-1824	-1662	-1474	-1251	-984	-658	-250	274	973	1952
			-2237	-2098	-1936	-1748	-1525	-1258	-932	-524	0	699	1678
80	480.00	50lb	-1684	-1524	-1339	-1124	-870	-565	-192	274	873	1672	2791
			-1958	-1798	-1613	-1398	-1144	-839	-466	0	599	1398	2517
90	540.00	50lb	-1404	-1224	-1017	-774	-488	-145	274	798	1473	2372	3631
			-1678	-1498	-1291	-1049	-762	-419	0	524	1198	2098	3356
100	600.00	50lb	-1124	-924	-694	-425	-107	274	740	1323	2072	3071	4470
			-1398	-1198	-968	-699	-381	0	466	1049	1798	2797	4196
110	660.00	50lb	-844	-625	-371	-75	274	693	1206	1847	2671	3770	5309
			-1118	-899	-645	-349	0	419	932	1573	2397	3496	5035
120	720.00	50lb	-565	-325	-48	274	655	1113	1672	2372	3271	4470	6148
			-839	-599	-322	0	381	839	1398	2098	2997	4196	5874
130	780.00	50lb	-285	-25	274	623	1037	1532	2139	2896	3870	5169	6988
			-559	-299	0	349	762	1258	1864	2622	3596	4895	6713
140	840.00	50lb	-5	274	596	973	1418	1952	2605	3421	4470	5869	7827
			-279	0	322	699	1144	1678	2331	3147	4196	5594	7553
150	900.00	50lb	274	573	919	1323	1799	2372	3071	3945	5069	6568	8666
			0	299	645	1049	1525	2098	2797	3671	4795	6294	8392

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 23.A Estimated resource use and costs for field operations, per acre  
 Organic - Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Mar							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Mar	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Mar	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Apr	1.96	1.32	0.58	1.53	0.19	2.02				7.41
BS.lay/tape/Cucumber	4ftctr	2WD 75 hp	1.617	1.00	Apr	15.98	10.73	2.03	7.53	1.61	16.52				52.79
Plastic Mulch	roll											2.2000	162.00	356.40	356.40
Drip Tape	roll											1.5000	156.00	234.00	234.00
Plntr/H2O Cucumber	1R 4ftctr	2WD 75 hp	2.578	1.00	Apr	25.47	17.10	2.09	4.51	10.31	90.36				139.53
Cucumber - Organic	lb											3.0000	612.00	1836.00	1836.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Fertigation				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Liquid Fish Fert.	gal											18.0000	15.61	280.98	280.98
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Apr	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Neem Oil	pt											3.0000	5.27	15.81	15.81
Fertigation				2.00	May										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Liquid Fish Fert.	gal											18.0000	15.61	280.98	280.98
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Azatin EC	oz											14.0000	5.21	72.94	72.94
Fertigation				2.00	May										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Liquid Fish Fert.	gal											18.0000	15.61	280.98	280.98
Fertigation				1.00	Jun										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Fertigation				1.00	Jun										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29

(continued)

Table 23.A Estimated resource use and costs for field operations, per acre  
 Organic - Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
HARVEST LABOR	hour			1.00	Jun					120.00	993.60				993.60
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
Labor(Packing)	each											300.0000	0.75	225.00	225.00
Boxes-Waxed	each											300.0000	1.32	396.00	396.00
Plastic Clean Up				1.00	Jun										
Mulch Lifter	1 Row	2WD 75 hp	0.589			5.82	3.91	0.11	3.03	0.58	6.02				18.89
Labor Clean up	acre											1.0000	100.00	100.00	100.00
Irrigation Setup	acre				Apr							1.0000			471.30
TOTALS						81.14	54.47	74.89	175.87	144.03	1208.47			5595.68	7661.82
INTEREST ON OPERATING CAPITAL															108.15
UNALLOCATED LABOR															16.73
TOTAL SPECIFIED COST															7786.70

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 23.B Estimated costs per acre  
 Organic - Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
Liquid Fish Fert.	gal	15.61	72.0000	1123.92	_____
FUNGICIDE					
Neem Oil	pt	5.27	5.0000	26.35	_____
INSECTICIDE					
Azatin EC	oz	5.21	42.0000	218.82	_____
SEED/PLANTS					
Cucumber - Organic	lb	612.00	3.0000	1836.00	_____
OTHER					
Plastic Mulch	roll	162.00	2.2000	356.40	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Labor(Packing)	each	0.75	300.0000	225.00	_____
Boxes-Waxed	each	1.32	300.0000	396.00	_____
Labor Clean up	acre	100.00	1.0000	100.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.5000	234.00	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	8.2107	83.84	_____
HARVEST LABOR					
Special Labor	hour	8.28	120.0000	993.60	_____
HAND LABOR					
Implements	hour	8.28	7.8243	64.79	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	8.0000	66.24	_____
UNALLOCATED LABOR	hour	10.18	1.6421	16.73	_____
DIESEL FUEL					
Tractors	gal	2.33	31.6969	73.85	_____
REPAIR & MAINTENANCE					
Implements	acre	74.89	1.0000	74.89	_____
Tractors	acre	7.29	1.0000	7.29	_____
INTEREST ON OP. CAP.	acre	108.15	1.0000	108.15	_____
TOTAL DIRECT EXPENSES				7085.06	_____
FIXED EXPENSES					
Implements	acre	175.87	1.0000	175.87	_____
Tractors	acre	54.47	1.0000	54.47	_____
Irrigation Setup	acre	471.30	1.0000	471.30	_____
TOTAL FIXED EXPENSES				701.64	_____
TOTAL SPECIFIED EXPENSES				7786.70	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 23.C Estimated monthly income and expense flows per acre  
 Organic - Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	29.13	280.98	561.96	280.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	15.81	5.27	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	72.94	72.94	72.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	1836.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	356.40	0.00	1321.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	684.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	17.37	146.45	36.13	1025.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	12.75	48.36	2.21	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.49	48.79	10.05	20.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.80	76.35	10.04	19.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	63.54	3566.14	698.60	2756.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-63.54	-3566.14	-698.60	-2756.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-63.54	-3629.68	-4328.28	-7085.06	-7085.06	-7085.06	-7085.06	-7085.06	-7085.06	-7085.06	-7085.06	-7085.06

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 23.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Cucumbers, slicers, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Cucumbers			17.99	19.13	20.44	21.97	23.78	25.95	28.60	31.92	36.18	41.86	49.82
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	551b	-4072	-3901	-3705	-3475	-3204	-2878	-2481	-1983	-1344	-491	701
			-4774	-4603	-4406	-4177	-3906	-3580	-3182	-2685	-2046	-1193	0
60	180.00	551b	-3595	-3390	-3154	-2878	-2553	-2162	-1685	-1088	-321	701	2133
			-4296	-4092	-3856	-3580	-3255	-2864	-2387	-1790	-1023	0	1432
70	210.00	551b	-3117	-2878	-2603	-2282	-1902	-1446	-889	-193	701	1895	3566
			-3819	-3580	-3305	-2983	-2604	-2148	-1591	-895	0	1193	2864
80	240.00	551b	-2640	-2367	-2052	-1685	-1251	-730	-94	701	1724	3088	4998
			-3341	-3069	-2754	-2387	-1953	-1432	-795	0	1023	2387	4296
90	270.00	551b	-2162	-1855	-1501	-1088	-600	-14	701	1596	2747	4282	6430
			-2864	-2557	-2203	-1790	-1302	-716	0	895	2046	3580	5728
100	300.00	551b	-1685	-1344	-950	-491	50	701	1497	2491	3770	5475	7862
			-2387	-2046	-1652	-1193	-651	0	795	1790	3069	4774	7161
110	330.00	551b	-1208	-832	-400	104	701	1417	2293	3387	4793	6669	9295
			-1909	-1534	-1101	-596	0	716	1591	2685	4092	5967	8593
120	360.00	551b	-730	-321	150	701	1352	2133	3088	4282	5816	7862	10727
			-1432	-1023	-550	0	651	1432	2387	3580	5115	7161	10025
130	390.00	551b	-253	190	701	1298	2003	2849	3884	5177	6839	9056	12159
			-954	-511	0	596	1302	2148	3182	4475	6138	8354	11457
140	420.00	551b	224	701	1252	1895	2654	3566	4680	6072	7862	10249	13591
			-477	0	550	1193	1953	2864	3978	5370	7161	9548	12890
150	450.00	551b	701	1213	1803	2491	3305	4282	5475	6967	8885	11443	15023
			0	511	1101	1790	2604	3580	4774	6266	8184	10741	14322

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 24.A Estimated resource use and costs for field operations, per acre  
 Organic - Greens (turnip,mustard,collards),fresh market  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Aug	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Aug	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Aug	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Aug	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Cultipacker	12 Ft	2WD 75 hp	0.124	1.00	Aug	1.23	0.83	0.10	0.17	0.12	1.27				3.60
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Sep	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Greens - Organic	lb											3.3000	27.75	91.57	91.57
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Sep	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Kocide DF	lb											6.0000	3.42	20.52	20.52
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Sep	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Azatin EC	oz											28.0000	5.21	145.88	145.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Stacking Bins	each			1.00	Oct							20.0000	2.00	40.00	40.00
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Oct	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Oct					175.00	1449.00				1449.00
Boxes-Waxed	each			1.00	Oct							500.0000	1.32	660.00	660.00
Cooling Box - Greens box												500.0000	0.25	125.00	125.00
TOTALS						38.54	25.87	67.78	153.68	178.98	1489.56			1125.47	2900.90
INTEREST ON OPERATING CAPITAL															24.70
UNALLOCATED LABOR															7.94
TOTAL SPECIFIED COST															2933.54

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

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

Make sure all inputs are allowed by your licensing agency.

Table 24.B Estimated costs per acre  
 Organic - Greens (turnip,mustard,collards),fresh market  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
FUNGICIDE					
Kocide DF	lb	3.42	6.0000	20.52	_____
INSECTICIDE					
Azatin EC	oz	5.21	28.0000	145.88	_____
Dipel ES	pt	4.04	1.0000	4.04	_____
SEED/PLANTS					
Greens - Organic	lb	27.75	3.3000	91.57	_____
OTHER					
Stacking Bins	each	2.00	20.0000	40.00	_____
Boxes-Waxed	each	1.32	500.0000	660.00	_____
Cooling Box - Greens	box	0.25	500.0000	125.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	3.8995	39.81	_____
HAND LABOR					
Implements	hour	8.28	0.0900	0.75	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	175.0000	1449.00	_____
UNALLOCATED LABOR	hour	10.18	0.7799	7.94	_____
DIESEL FUEL					
Tractors	gal	2.33	15.0539	35.08	_____
REPAIR & MAINTENANCE					
Implements	acre	67.78	1.0000	67.78	_____
Tractors	acre	3.46	1.0000	3.46	_____
INTEREST ON OP. CAP.	acre	24.70	1.0000	24.70	_____
TOTAL DIRECT EXPENSES				2753.99	_____
FIXED EXPENSES					
Implements	acre	153.68	1.0000	153.68	_____
Tractors	acre	25.87	1.0000	25.87	_____
TOTAL FIXED EXPENSES				179.55	_____
TOTAL SPECIFIED EXPENSES				2933.54	_____

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

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

Make sure all inputs are allowed by your licensing agency.



Table 24.C Estimated monthly income and expense flows per acre  
 Organic - Greens (turnip,mustard,collards),fresh market  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	0.00	0.00	0.00	0.00	0.00	18.66	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.52	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.88	4.04	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.57	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	825.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.75	19.89	1453.86	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.44	14.62	3.02	0.00	0.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	56.86	10.17	0.00	0.00
INTEREST ON OP. CAP.	1.44	0.00	0.00	0.00	0.00	0.00	0.00	1.41	5.11	16.74	0.00	0.00
TOTAL DIRECT EXPENSES	21.24	0.00	0.00	0.00	0.00	0.00	0.00	65.47	354.45	2312.83	0.00	0.00
NET INCOME	-21.24	0.00	0.00	0.00	0.00	0.00	0.00	-65.47	-354.45	-2312.83	0.00	0.00
NET INCOME TO DATE	-21.24	-21.24	-21.24	-21.24	-21.24	-21.24	-21.24	-86.71	-441.16	-2753.99	-2753.99	-2753.99

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 24.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Greens (turnip,mustard,collards),fresh market  
 Mississippi, MALTAG, 2008

Greens (25lb)			-----BREAKEVEN PRICE-----										
			4.35	4.57	4.81	5.11	5.45	5.86	6.37	7.00	7.81	8.89	10.40
PERCENT	YIELD	UNIT	-----dollars-----										
50	250.00	2doz	-1332	-1278	-1216	-1143	-1057	-954	-828	-671	-468	-198	179
			-1512	-1458	-1396	-1323	-1237	-1134	-1008	-850	-648	-378	0
60	300.00	2doz	-1181	-1116	-1042	-954	-851	-727	-576	-387	-144	179	633
			-1361	-1296	-1221	-1134	-1031	-907	-756	-567	-324	0	453
70	350.00	2doz	-1030	-954	-867	-765	-645	-501	-324	-104	179	557	1087
			-1209	-1134	-1047	-945	-824	-680	-504	-283	0	378	907
80	400.00	2doz	-879	-792	-693	-576	-439	-274	-72	179	503	935	1540
			-1058	-972	-872	-756	-618	-453	-252	0	324	756	1361
90	450.00	2doz	-727	-630	-518	-387	-232	-47	179	463	827	1313	1994
			-907	-810	-698	-567	-412	-226	0	283	648	1134	1814
100	500.00	2doz	-576	-468	-344	-198	-26	179	431	746	1151	1692	2448
			-756	-648	-523	-378	-206	0	252	567	972	1512	2268
110	550.00	2doz	-425	-306	-169	-9	179	406	683	1030	1475	2070	2902
			-604	-486	-349	-189	0	226	504	850	1296	1890	2722
120	600.00	2doz	-274	-144	5	179	385	633	935	1313	1800	2448	3355
			-453	-324	-174	0	206	453	756	1134	1620	2268	3176
130	650.00	2doz	-122	17	179	368	592	860	1187	1597	2124	2826	3809
			-302	-162	0	189	412	680	1008	1417	1944	2646	3629
140	700.00	2doz	28	179	354	557	798	1087	1439	1881	2448	3204	4263
			-151	0	174	378	618	907	1260	1701	2268	3024	4083
150	750.00	2doz	179	341	528	746	1004	1313	1692	2164	2772	3582	4717
			0	162	349	567	824	1134	1512	1985	2592	3403	4537

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 25.A Estimated resource use and costs for field operations, per acre  
 Organic - Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Jan	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Mar	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Lima Bean - Organic	lb											30.0000	59.00	1770.00	1770.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	May	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	May	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Kocide DF	lb											8.8000	3.42	30.10	30.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
HARVEST LABOR	hour			1.00	Jun					136.00	1126.08				1126.08
5-Gal Bucket	each											40.0000	3.00	120.00	120.00
Sheller Lima Beans	each			1.00	Jun				8.42			0.0200			8.42
107/10 lb bg L/BBean	acre							0.24		9.00	74.52	1.0000			74.76
R.B.Convey LimaBeans	each			1.00	Jun				3.86			0.0200			3.86
Rot.PakTable L-Beans	each			1.00	Jun				3.41			0.0200			3.41
Application 1	acre							0.13		5.00	41.40	1.0000			41.53
Bag Sealer LimaBeans	each			1.00	Jun				1.11			0.0200			1.11
Application 1	acre							0.61		0.12	0.99	1.0000			1.60
TOTALS							44.67	29.97	78.29	195.42	154.63	1289.14		2122.01	3759.50
INTEREST ON OPERATING CAPITAL															56.82
UNALLOCATED LABOR															9.22
TOTAL SPECIFIED COST															3825.54

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 25.B Estimated costs per acre  
 Organic - Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
FUNGICIDE					
Kocide DF	lb	3.42	8.8000	30.10	_____
INSECTICIDE					
Azatin EC	oz	5.21	14.0000	72.94	_____
Pyrethrins	oz	3.12	32.0000	99.84	_____
SEED/PLANTS					
Lima Bean - Organic	lb	59.00	30.0000	1770.00	_____
OTHER					
5-Gal Bucket	each	3.00	40.0000	120.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.5193	46.15	_____
HARVEST LABOR					
Special Labor	hour	8.28	136.0000	1126.08	_____
GRD LABOR LIMA BEANS					
Bag Sealer LimaBeans	hour	8.28	0.1200	0.99	_____
Rot.PakTable L-Beans	hour	8.28	5.0000	41.40	_____
Sheller Lima Beans	hour	8.28	9.0000	74.52	_____
UNALLOCATED LABOR	hour	10.20	0.9038	9.22	_____
DIESEL FUEL					
Tractors	gal	2.33	17.4466	40.64	_____
REPAIR & MAINTENANCE					
Implements	acre	77.31	1.0000	77.31	_____
Tractors	acre	4.03	1.0000	4.03	_____
Bag Sealer LimaBeans	acre	0.60	1.0000	0.61	_____
Rot.PakTable L-Beans	acre	0.12	1.0000	0.13	_____
Sheller Lima Beans	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	56.82	1.0000	56.82	_____
TOTAL DIRECT EXPENSES				3600.15	_____
FIXED EXPENSES					
Implements	acre	178.62	1.0000	178.62	_____
Tractors	acre	29.97	1.0000	29.97	_____
Bag Sealer LimaBeans	each	55.67	0.0200	1.11	_____
R.B.Convey LimaBeans	each	192.96	0.0200	3.86	_____
Rot.PakTable L-Beans	each	170.48	0.0200	3.41	_____
Sheller Lima Beans	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				225.39	_____
TOTAL SPECIFIED EXPENSES				3825.54	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 25.C Estimated monthly income and expense flows per acre  
 Organic - Lima / butter beans - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	72.94	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	1770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	0.00	18.15	12.66	21.86	1242.99	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	0.00	13.33	9.29	16.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	0.00	2.20	17.13	61.28	0.98	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.11	0.00	1.25	41.17	3.34	9.95	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	26.32	0.00	44.26	1923.19	232.46	1373.92	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-26.32	0.00	-44.26	-1923.19	-232.46	-1373.92	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-26.32	-26.32	-70.58	-1993.77	-2226.23	-3600.15	-3600.15	-3600.15	-3600.15	-3600.15	-3600.15	-3600.15

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 25.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
Organic - Lima / butter beans - hand harvest  
Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			23.83	25.53	27.50	29.79	32.50	35.75	39.72	44.69	51.07	59.58	71.50
PERCENT	YIELD	UNIT	-----dollars-----										
50	53.50	101b	-2324	-2233	-2128	-2006	-1861	-1687	-1474	-1209	-867	-412	225
			-2550	-2459	-2354	-2231	-2086	-1912	-1700	-1434	-1093	-637	0
60	64.20	101b	-2069	-1960	-1834	-1687	-1513	-1304	-1049	-730	-321	225	990
			-2295	-2186	-2059	-1912	-1738	-1530	-1275	-956	-546	0	765
70	74.90	101b	-1814	-1687	-1540	-1368	-1165	-922	-624	-252	225	862	1755
			-2040	-1912	-1765	-1593	-1391	-1147	-850	-478	0	637	1530
80	85.60	101b	-1559	-1414	-1245	-1049	-817	-539	-199	225	771	1500	2520
			-1785	-1639	-1471	-1275	-1043	-765	-425	0	546	1275	2295
90	96.30	101b	-1304	-1140	-951	-730	-470	-157	225	703	1318	2138	3285
			-1530	-1366	-1177	-956	-695	-382	0	478	1093	1912	3060
100	107.00	101b	-1049	-867	-657	-412	-122	225	650	1181	1864	2775	4050
			-1275	-1093	-882	-637	-347	0	425	956	1639	2550	3825
110	117.70	101b	-794	-594	-363	-93	225	607	1075	1659	2411	3413	4816
			-1020	-819	-588	-318	0	382	850	1434	2186	3187	4590
120	128.40	101b	-539	-321	-68	225	573	990	1500	2138	2957	4050	5581
			-765	-546	-294	0	347	765	1275	1912	2732	3825	5355
130	139.10	101b	-284	-47	225	544	920	1373	1925	2616	3504	4688	6346
			-510	-273	0	318	695	1147	1700	2390	3279	4463	6120
140	149.80	101b	-29	225	519	862	1268	1755	2350	3094	4050	5326	7111
			-255	0	294	637	1043	1530	2125	2869	3825	5100	6885
150	160.50	101b	225	498	813	1181	1616	2138	2775	3572	4597	5963	7876
			0	273	588	956	1391	1912	2550	3347	4372	5738	7651

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 26.A Estimated resource use and costs for field operations, per acre  
 Organic - Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Jan	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
Manure spreader	50bu	2WD 50 hp	1.000	1.00	Mar	6.57	4.30	0.11	1.62	1.00	10.21				22.81
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Lima Bean - Organic	lb											30.0000	59.00	1770.00	1770.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Cultivate	2 Row	2WD 75 hp	0.390	1.00	May	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	4.00	May	9.70	6.51	39.33	88.50	0.98	10.03				154.07
Kocide DF	lb											8.8000	3.42	30.10	30.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	Jun	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Trailer-Lima/B. Bean	16 ft	2WD 50 hp	3.571	1.00	Jun	23.47	15.35	1.86	4.01	7.14	66.03				110.72
LABOR BEAN TRAILER	hour														29.64
Sheller Lima Beans	each			1.00	Jun				8.42			0.0200			8.42
65/10 lb bg L/BBean	acre							0.24		9.00	74.52	1.0000			74.76
R.B.Convey LimaBeans	each			1.00	Jun				3.86			0.0200			3.86
Rot.PakTable L-Beans	each			1.00	Jun				3.41			0.0200			3.41
Application 1	acre							0.13		5.00	41.40	1.0000			41.53
Bag Sealer LimaBeans	each			1.00	Jun				1.11			0.0200			1.11
Application 1	acre							0.61		0.12	0.99	1.0000			1.60
TOTALS							100.11	66.67	120.37	248.27	40.07	354.33		2002.01	2891.76
INTEREST ON OPERATING CAPITAL															49.87
UNALLOCATED LABOR															23.80
TOTAL SPECIFIED COST															2965.43

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 26.B Estimated costs per acre  
 Organic - Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
FUNGICIDE					
Kocide DF	lb	3.42	8.8000	30.10	_____
INSECTICIDE					
Azatin EC	oz	5.21	14.0000	72.94	_____
Pyrethrins	oz	3.12	32.0000	99.84	_____
SEED/PLANTS					
Lima Bean - Organic	lb	59.00	30.0000	1770.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	11.6622	119.07	_____
HAND LABOR					
Implements	hour	8.28	10.7142	88.71	_____
LABOR BEAN TRAILER					
Special Labor	hour	8.28	3.5800	29.64	_____
GRD LABOR LIMA BEANS					
Bag Sealer LimaBeans	hour	8.28	0.1200	0.99	_____
Rot.PakTable L-Beans	hour	8.28	5.0000	41.40	_____
Sheller Lima Beans	hour	8.28	9.0000	74.52	_____
UNALLOCATED LABOR	hour	10.20	2.3324	23.80	_____
DIESEL FUEL					
Tractors	gal	2.33	39.1384	91.19	_____
REPAIR & MAINTENANCE					
Implements	acre	119.39	1.0000	119.39	_____
Tractors	acre	8.92	1.0000	8.92	_____
Bag Sealer LimaBeans	acre	0.60	1.0000	0.61	_____
Rot.PakTable L-Beans	acre	0.12	1.0000	0.13	_____
Sheller Lima Beans	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	49.87	1.0000	49.87	_____
TOTAL DIRECT EXPENSES				2650.49	_____
FIXED EXPENSES					
Implements	acre	231.47	1.0000	231.47	_____
Tractors	acre	66.67	1.0000	66.67	_____
Bag Sealer LimaBeans	each	55.67	0.0200	1.11	_____
R.B.Convey LimaBeans	each	192.96	0.0200	3.86	_____
Rot.PakTable L-Beans	each	170.48	0.0200	3.41	_____
Sheller Lima Beans	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				314.94	_____
TOTAL SPECIFIED EXPENSES				2965.43	_____

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

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

Make sure all inputs are allowed by your licensing agency.



Table 26.C Estimated monthly income and expense flows per acre  
 Organic - Lima / butter beans - mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	72.94	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	1770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.70	0.00	18.15	11.67	22.85	322.76	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.98	0.00	10.34	8.57	16.76	53.54	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.73	0.00	1.88	17.64	60.77	48.27	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.11	0.00	1.15	41.15	3.36	3.10	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	26.32	0.00	40.85	1921.97	233.68	427.67	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-26.32	0.00	-40.85	-1921.97	-233.68	-427.67	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-26.32	-26.32	-67.17	-1989.14	-2222.82	-2650.49	-2650.49	-2650.49	-2650.49	-2650.49	-2650.49	-2650.49

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 26.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
Organic - Lima / butter beans - mechanical harvest  
Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			30.41	32.58	35.09	38.01	41.47	45.62	50.69	57.02	65.17	76.03	91.24
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	101b	-1662	-1591	-1509	-1414	-1302	-1167	-1003	-797	-532	-179	314
			-1976	-1906	-1824	-1729	-1617	-1482	-1317	-1112	-847	-494	0
60	39.00	101b	-1464	-1379	-1281	-1167	-1032	-871	-673	-426	-108	314	908
			-1779	-1694	-1596	-1482	-1347	-1186	-988	-741	-423	0	593
70	45.50	101b	-1266	-1167	-1053	-920	-763	-574	-344	-55	314	809	1501
			-1581	-1482	-1368	-1235	-1078	-889	-658	-370	0	494	1186
80	52.00	101b	-1068	-955	-825	-673	-493	-278	-14	314	738	1303	2094
			-1383	-1270	-1140	-988	-808	-593	-329	0	423	988	1779
90	58.50	101b	-871	-744	-597	-426	-224	18	314	685	1162	1797	2687
			-1186	-1059	-912	-741	-539	-296	0	370	847	1482	2372
100	65.00	101b	-673	-532	-369	-179	45	314	644	1056	1585	2291	3280
			-988	-847	-684	-494	-269	0	329	741	1270	1976	2965
110	71.50	101b	-475	-320	-141	67	314	611	973	1426	2009	2786	3873
			-790	-635	-456	-247	0	296	658	1112	1694	2471	3558
120	78.00	101b	-278	-108	86	314	584	908	1303	1797	2433	3280	4466
			-593	-423	-228	0	269	593	988	1482	2118	2965	4151
130	84.50	101b	-80	103	314	562	854	1204	1632	2168	2856	3774	5059
			-395	-211	0	247	539	889	1317	1853	2541	3459	4744
140	91.00	101b	117	314	543	809	1123	1501	1962	2539	3280	4268	5652
			-197	0	228	494	808	1186	1647	2224	2965	3953	5337
150	97.50	101b	314	526	771	1056	1393	1797	2291	2909	3704	4763	6245
			0	211	456	741	1078	1482	1976	2594	3389	4448	5930

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 27.A Estimated resource use and costs for field operations, per acre  
 Organic - Okra, fresh market  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Mar							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Mar	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Mar	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Apr	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Okra - Organic	lb											8.8000	155.00	1364.00	1364.00
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Cultivate	2 Row	2WD 75 hp	0.390	2.00	May	7.72	5.18	0.25	1.57	0.78	7.98				22.70
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Pyrethrins	oz											32.0000	3.12	99.84	99.84
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	May	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Pyrethrins	oz											48.0000	3.12	149.76	149.76
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	12.00	Jun	10.67	7.16	0.50	1.09	2.16	19.97				39.39
HARVEST LABOR	hour			1.00	Jun					300.00	2484.00				2484.00
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
GRADE & PACK LABOR	hour			1.00	Jun					30.00	248.40				248.40
Boxes-Waxed	each											400.0000	1.32	528.00	528.00
TOTALS						63.23	42.42	59.69	143.04	337.47	2806.67			2770.73	5885.78
INTEREST ON OPERATING CAPITAL															64.71
UNALLOCATED LABOR															13.06
TOTAL SPECIFIED COST															5963.55

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 27.B Estimated costs per acre  
Organic - Okra, fresh market  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
INSECTICIDE					
Pyrethrins	oz	3.12	80.0000	249.60	_____
SEED/PLANTS					
Okra - Organic	lb	155.00	8.8000	1364.00	_____
OTHER					
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Boxes-Waxed	each	1.32	400.0000	528.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	6.3985	65.33	_____
HARVEST LABOR					
Special Labor	hour	8.28	300.0000	2484.00	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
HAND LABOR					
Implements	hour	8.28	1.0800	8.94	_____
UNALLOCATED LABOR	hour	10.20	1.2797	13.06	_____
DIESEL FUEL					
Tractors	gal	2.33	24.7008	57.55	_____
REPAIR & MAINTENANCE					
Implements	acre	59.69	1.0000	59.69	_____
Tractors	acre	5.68	1.0000	5.68	_____
INTEREST ON OP. CAP.	acre	64.71	1.0000	64.71	_____
TOTAL DIRECT EXPENSES				5778.09	_____
FIXED EXPENSES					
Implements	acre	143.04	1.0000	143.04	_____
Tractors	acre	42.42	1.0000	42.42	_____
TOTAL FIXED EXPENSES				185.46	_____
TOTAL SPECIFIED EXPENSES				5963.55	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 27.C Estimated monthly income and expense flows per acre  
 Organic - Okra, fresh market  
 Mississippi, MALTAG, 2008

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	29.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	99.84	149.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	1364.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	1128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	19.81	16.93	19.39	2763.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	14.54	12.43	14.24	16.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.24	8.50	22.02	31.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.95	30.67	2.28	29.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	68.67	1432.53	157.77	4119.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-68.67	-1432.53	-157.77	-4119.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-68.67	-1501.20	-1658.97	-5778.09	-5778.09	-5778.09	-5778.09	-5778.09	-5778.09	-5778.09	-5778.09	-5778.09

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 27.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Okra, fresh market  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Okra (US Fancy)			10.38	11.02	11.77	12.64	13.67	14.90	16.41	18.30	20.72	23.96	28.48
PERCENT	YIELD	UNIT	-----dollars-----										
50	200.00	30lb	-3435	-3306	-3157	-2983	-2777	-2530	-2228	-1851	-1366	-719	185
			-3621	-3491	-3342	-3168	-2962	-2715	-2414	-2036	-1551	-905	0
60	240.00	30lb	-3073	-2918	-2739	-2530	-2283	-1987	-1625	-1172	-590	185	1271
			-3259	-3103	-2924	-2715	-2468	-2172	-1810	-1357	-775	0	1086
70	280.00	30lb	-2711	-2530	-2321	-2077	-1789	-1444	-1021	-493	185	1090	2358
			-2896	-2715	-2506	-2263	-1975	-1629	-1207	-678	0	905	2172
80	320.00	30lb	-2349	-2142	-1903	-1625	-1295	-900	-418	185	961	1996	3444
			-2534	-2327	-2089	-1810	-1481	-1086	-603	0	775	1810	3259
90	360.00	30lb	-1987	-1754	-1485	-1172	-802	-357	185	864	1737	2901	4530
			-2172	-1939	-1671	-1357	-987	-543	0	678	1551	2715	4345
100	400.00	30lb	-1625	-1366	-1068	-719	-308	185	788	1543	2513	3806	5617
			-1810	-1551	-1253	-905	-493	0	603	1357	2327	3621	5431
110	440.00	30lb	-1262	-978	-650	-267	185	728	1392	2222	3289	4711	6703
			-1448	-1163	-835	-452	0	543	1207	2036	3103	4526	6518
120	480.00	30lb	-900	-590	-232	185	679	1271	1996	2901	4065	5617	7789
			-1086	-775	-417	0	493	1086	1810	2715	3879	5431	7604
130	520.00	30lb	-538	-202	185	638	1173	1814	2599	3580	4841	6522	8876
			-724	-387	0	452	987	1629	2414	3394	4655	6336	8690
140	560.00	30lb	-176	185	603	1090	1666	2358	3203	4259	5617	7427	9962
			-362	0	417	905	1481	2172	3017	4073	5431	7242	9777
150	600.00	30lb	185	573	1021	1543	2160	2901	3806	4938	6393	8333	11048
			0	387	835	1357	1975	2715	3621	4752	6207	8147	10863

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 28.A Estimated resource use and costs for field operations, per acre  
 Organic - Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	May							0.1633	40.00	6.53	6.53
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	May	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	May	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Jun	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Jun	2.81	1.88	0.19	0.90	0.28	2.90				8.68
BS. lay/tape/Pumpkin	8ftctr	2WD 75 hp	0.080	1.00	Jun	0.80	0.54	0.21	0.76	0.08	0.83				3.14
Plastic Mulch	roll											1.4000	162.00	226.80	226.80
Drip Tape	roll											0.9000	156.00	140.40	140.40
Plntr/H20/pnch/seed	1 Row	2WD 75 hp	2.578	1.00	Jul	25.47	17.10	3.73	8.02	5.15	47.67				101.99
Pumpkin Sd - Organic	lb											1.5000	102.67	154.01	154.01
Irrigation				1.00	Jul										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigation				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Disk Harrow-Hvy Duty	5'	2WD 75 hp	0.412	0.50	Jul	2.04	1.37	0.13	0.34	0.20	2.11				5.99
Fertigation				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Fertigation				1.00	Jul										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				3.00	Aug										
FERTIGATION LABOR	hour									3.00	24.84				24.84
Liquid Fish Fert.	gal											27.0000	15.61	421.47	421.47
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				1.00	Sep										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Fertigation				3.00	Sep										
FERTIGATION LABOR	hour									3.00	24.84				24.84
Liquid Fish Fert.	gal											27.0000	15.61	421.47	421.47

(continued)

Table 28.A Estimated resource use and costs for field operations, per acre  
 Organic - Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.43	1.63	9.83	22.12	0.24	2.51					38.52
Azatin EC	oz											14.0000	5.21	72.94		72.94
Neem Oil	pt											1.0000	5.27	5.27		5.27
Fertigation				1.00	Oct											
FERTIGATION LABOR	hour									1.00	8.28					8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49		140.49
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	3.00	Oct	2.67	1.79	0.13	0.27	0.54	5.00					9.86
HARVEST LABOR	hour									90.00	745.20					745.20
Pallet Crates-1000lb each												123.0000	12.00	1476.00		1476.00
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Nov	5.82	3.91	0.11	3.03	0.58	6.02					18.89
LABOR MULCH CLEANUP	hour									15.00	124.20					124.20
Irrigation Setup	acre				Jul							1.0000				459.10
TOTALS						70.17	47.09	65.28	151.91	125.94	1056.58			4352.32		6202.45
INTEREST ON OPERATING CAPITAL																134.59
UNALLOCATED LABOR																14.48
TOTAL SPECIFIED COST																6351.52

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.



Table 28.B Estimated costs per acre  
 Organic - Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.1633	6.53	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
Liquid Fish Fert.	gal	15.61	99.0000	1545.39	_____
FUNGICIDE					
Neem Oil	pt	5.27	3.0000	15.81	_____
INSECTICIDE					
Azatin EC	oz	5.21	42.0000	218.82	_____
Pyrethrins	oz	3.12	32.0000	99.84	_____
SEED/PLANTS					
Pumpkin Sd - Organic	lb	102.67	1.5000	154.01	_____
OTHER					
Plastic Mulch	roll	162.00	1.4000	226.80	_____
Pallet Crates-1000lb	each	12.00	123.0000	1476.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	0.9000	140.40	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.0988	72.51	_____
HARVEST LABOR					
Special Labor	hour	8.28	90.0000	745.20	_____
HAND LABOR					
Implements	hour	8.28	2.8481	23.59	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	11.0000	91.08	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR					
	hour	10.19	1.4197	14.48	_____
DIESEL FUEL					
Tractors	gal	2.33	27.4043	63.87	_____
REPAIR & MAINTENANCE					
Implements	acre	65.28	1.0000	65.28	_____
Tractors	acre	6.30	1.0000	6.30	_____
INTEREST ON OP. CAP.	acre	134.59	1.0000	134.59	_____
				-----	
TOTAL DIRECT EXPENSES				5693.42	_____
FIXED EXPENSES					
Implements	acre	151.91	1.0000	151.91	_____
Tractors	acre	47.09	1.0000	47.09	_____
Irrigation Setup	acre	459.10	1.0000	459.10	_____
				-----	
TOTAL FIXED EXPENSES				658.10	_____
				-----	
TOTAL SPECIFIED EXPENSES				6351.52	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 28.C Estimated monthly income and expense flows per acre  
 Organic - Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	25.19	0.00	421.47	421.47	561.96	140.49	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	10.54	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	122.86	0.00	195.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	154.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	226.80	0.00	0.00	0.00	1476.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	140.40	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	14.95	9.34	86.32	30.86	39.14	759.03	131.42	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.97	6.86	29.47	4.42	4.42	2.43	5.30	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.73	2.23	26.42	20.10	20.10	0.37	0.63	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.70	16.86	47.04	14.21	18.08	34.69	1.01	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	55.54	402.49	1337.65	501.60	844.77	2413.01	138.36	0.00	0.00	0.00	0.00	0.00
NET INCOME	-55.54	-402.49	-1337.65	-501.60	-844.77	-2413.01	-138.36	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-55.54	-458.03	-1795.68	-2297.28	-3142.05	-5555.06	-5693.42	-5693.42	-5693.42	-5693.42	-5693.42	-5693.42

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 28.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Pumpkin, wholesale/freshmarket, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Pumpkin			0.10	0.11	0.11	0.12	0.14	0.15	0.17	0.19	0.22	0.25	0.30
PERCENT	YIELD	UNIT	-----dollars-----										
50	20500.00	lb	-3576	-3425	-3250	-3046	-2806	-2517	-2164	-1723	-1156	-400	658
			-4234	-4083	-3908	-3705	-3464	-3175	-2822	-2381	-1814	-1058	0
60	24600.00	lb	-3152	-2971	-2761	-2517	-2228	-1882	-1459	-929	-249	658	1928
			-3810	-3629	-3420	-3175	-2887	-2540	-2117	-1587	-907	0	1270
70	28700.00	lb	-2729	-2517	-2273	-1988	-1651	-1247	-753	-135	658	1716	3198
			-3387	-3175	-2931	-2646	-2309	-1905	-1411	-793	0	1058	2540
80	32800.00	lb	-2305	-2063	-1784	-1459	-1074	-612	-47	658	1565	2775	4469
			-2964	-2722	-2442	-2117	-1732	-1270	-705	0	907	2117	3810
90	36900.00	lb	-1882	-1610	-1296	-929	-496	22	658	1452	2472	3833	5739
			-2540	-2268	-1954	-1587	-1154	-635	0	793	1814	3175	5081
100	41000.00	lb	-1459	-1156	-807	-400	80	658	1363	2245	3380	4892	7009
			-2117	-1814	-1465	-1058	-577	0	705	1587	2722	4234	6351
110	45100.00	lb	-1035	-702	-319	128	658	1293	2069	3039	4287	5951	8279
			-1693	-1361	-977	-529	0	635	1411	2381	3629	5292	7621
120	49200.00	lb	-612	-249	169	658	1235	1928	2775	3833	5194	7009	9550
			-1270	-907	-488	0	577	1270	2117	3175	4536	6351	8892
130	53300.00	lb	-188	204	658	1187	1812	2563	3480	4627	6102	8068	10820
			-846	-453	0	529	1154	1905	2822	3969	5444	7410	10162
140	57400.00	lb	234	658	1146	1716	2390	3198	4186	5421	7009	9126	12090
			-423	0	488	1058	1732	2540	3528	4763	6351	8468	11432
150	61500.00	lb	658	1111	1635	2245	2967	3833	4892	6215	7916	10185	13361
			0	453	977	1587	2309	3175	4234	5557	7258	9527	12703

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 29.A Estimated resource use and costs for field operations, per acre  
 Organic - Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Feb	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Feb	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Snap Beans - Organic lb												70.0000	13.00	910.00	910.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Pyrethrins	oz											32.0000	3.12	99.84	99.84
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Mar	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Kocide DF	lb											2.0000	3.42	6.84	6.84
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Kocide DF	lb											4.0000	3.42	13.68	13.68
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Kocide DF	lb											4.0000	3.42	13.68	13.68
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	May	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST LABOR	hour			1.00	May					150.00	1242.00				1242.00
Bushel Box	each			1.00	May							200.0000	1.20	240.00	240.00
Load Conveyor S Bean				1.00	May										
GRD LABOR S. BEANS	hour									20.00	165.60				165.60
Cooling Snap Beans	bu box			1.00	May							200.0000	0.75	150.00	150.00
R.B.ConveySnapBeans	each			1.00	May				3.86			0.0200			3.86
Application 1	bu							79.68		40.00	331.20	200.0000			410.88
Rot.Pk Table S Beans	each			1.00	May				3.41			0.0200			3.41
Application 1	bu							6.38		2.00	16.56	200.0000			22.94
TOTALS						47.51	31.89	164.01	187.53	216.89	1805.19			1463.17	3699.30
INTEREST ON OPERATING CAPITAL															43.68
UNALLOCATED LABOR															9.80
TOTAL SPECIFIED COST															3752.78

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 29.B Estimated costs per acre  
 Organic - Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
FUNGICIDE					
Kocide DF	lb	3.42	10.0000	34.20	_____
INSECTICIDE					
Pyrethrins	oz	3.12	32.0000	99.84	_____
SEED/PLANTS					
Snap Beans - Organic	lb	13.00	70.0000	910.00	_____
OTHER					
Bushel Box	each	1.20	200.0000	240.00	_____
Cooling Snap Beans	bu box	0.75	200.0000	150.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.8077	49.08	_____
HARVEST LABOR					
Special Labor	hour	8.28	150.0000	1242.00	_____
HAND LABOR					
Implements	hour	8.28	0.0900	0.75	_____
GRD LABOR S. BEANS					
Special Labor	hour	8.28	20.0000	165.60	_____
R.B.ConveySnapBeans	hour	8.28	40.0000	331.20	_____
Rot.Pk Table S Beans	hour	8.28	2.0000	16.56	_____
UNALLOCATED LABOR	hour	10.19	0.9615	9.80	_____
DIESEL FUEL					
Tractors	gal	2.33	18.5596	43.25	_____
REPAIR & MAINTENANCE					
Implements	acre	77.95	1.0000	77.95	_____
Tractors	acre	4.26	1.0000	4.26	_____
R.B.ConveySnapBeans	bu	0.39	200.0000	79.68	_____
Rot.Pk Table S Beans	bu	0.03	200.0000	6.38	_____
INTEREST ON OP. CAP.	acre	43.68	1.0000	43.68	_____
TOTAL DIRECT EXPENSES				3533.36	_____
FIXED EXPENSES					
Implements	acre	180.26	1.0000	180.26	_____
Tractors	acre	31.89	1.0000	31.89	_____
R.B.ConveySnapBeans	each	192.96	0.0200	3.86	_____
Rot.Pk Table S Beans	each	170.48	0.0200	3.41	_____
TOTAL FIXED EXPENSES				219.42	_____
TOTAL SPECIFIED EXPENSES				3752.78	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 29.C Estimated monthly income and expense flows per acre  
 Organic - Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	29.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	6.84	27.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	28.08	13.88	15.82	1757.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	20.61	10.20	11.63	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	4.15	36.76	41.18	86.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.40	23.57	1.41	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	84.37	1101.09	97.40	2250.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-84.37	-1101.09	-97.40	-2250.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-84.37	-1185.46	-1282.86	-3533.36	-3533.36	-3533.36	-3533.36	-3533.36	-3533.36	-3533.36	-3533.36	-3533.36

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 29.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Snap beans, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Snap Beans			12.91	13.74	14.71	15.83	17.16	18.76	20.71	23.15	26.28	30.46	36.31
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	30lb	-2121	-2037	-1941	-1828	-1695	-1536	-1341	-1097	-783	-365	219
			-2340	-2257	-2160	-2048	-1915	-1755	-1560	-1316	-1003	-585	0
60	120.00	30lb	-1887	-1786	-1671	-1536	-1376	-1184	-950	-658	-282	219	921
			-2106	-2006	-1890	-1755	-1595	-1404	-1170	-877	-501	0	702
70	140.00	30lb	-1653	-1536	-1401	-1243	-1057	-833	-560	-219	219	804	1623
			-1872	-1755	-1620	-1462	-1276	-1053	-780	-438	0	585	1404
80	160.00	30lb	-1419	-1285	-1130	-950	-738	-482	-170	219	720	1389	2326
			-1638	-1504	-1350	-1170	-957	-702	-390	0	501	1170	2106
90	180.00	30lb	-1184	-1034	-860	-658	-418	-131	219	658	1222	1974	3028
			-1404	-1253	-1080	-877	-638	-351	0	438	1003	1755	2808
100	200.00	30lb	-950	-783	-590	-365	-99	219	609	1097	1724	2560	3730
			-1170	-1003	-810	-585	-319	0	390	877	1504	2340	3511
110	220.00	30lb	-716	-532	-320	-73	219	570	999	1536	2225	3145	4432
			-936	-752	-540	-292	0	351	780	1316	2006	2925	4213
120	240.00	30lb	-482	-282	-50	219	538	921	1389	1974	2727	3730	5134
			-702	-501	-270	0	319	702	1170	1755	2507	3511	4915
130	260.00	30lb	-248	-31	219	512	857	1272	1779	2413	3228	4315	5837
			-468	-250	0	292	638	1053	1560	2194	3009	4096	5617
140	280.00	30lb	-14	219	489	804	1176	1623	2169	2852	3730	4900	6539
			-234	0	270	585	957	1404	1950	2633	3511	4681	6319
150	300.00	30lb	219	470	759	1097	1496	1974	2560	3291	4232	5485	7241
			0	250	540	877	1276	1755	2340	3072	4012	5266	7022

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 30.A Estimated resource use and costs for field operations, per acre  
 Organic - Snap beans, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 50 hp	1.000	1.00	Feb	6.57	4.30	0.11	1.62	1.00	10.21				22.81
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Feb	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Feb	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Snap Beans - Organic	lb											70.0000	13.00	910.00	910.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Pyrethrins	oz											32.0000	3.12	99.84	99.84
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Mar	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Kocide DF	lb											2.0000	3.42	6.84	6.84
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Kocide DF	lb											4.0000	3.42	13.68	13.68
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Kocide DF	lb											4.0000	3.42	13.68	13.68
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	May	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Bushel Box	each											150.0000	1.20	180.00	180.00
Trailer - Snap Bean	16 ft	2WD 50 hp	3.571	1.00	May	23.47	15.35	1.86	4.01	7.14	66.03				110.72
Load Conveyor S Bean				1.00	May										
GRD LABOR S. BEANS	hour									20.00	165.60				165.60
Cooling Snap Beans	bu box			1.00	May							200.0000	0.75	150.00	150.00
R.B.ConveySnapBeans	each			1.00	May				3.86			0.0200			3.86
Application 1	bu							79.68		40.00	331.20	200.0000			410.88
Rot.Pk Table S Beans	each			1.00	May				3.41			0.0200			3.41
Application 1	bu							6.38		2.00	16.56	200.0000			22.94
TOTALS						102.06	67.99	206.05	240.29	84.57	723.15			1403.17	2742.71
INTEREST ON OPERATING CAPITAL															36.08
UNALLOCATED LABOR															24.20
TOTAL SPECIFIED COST															2802.99

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.



Table 30.B Estimated costs per acre  
 Organic - Snap beans, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
FUNGICIDE					
Kocide DF	lb	3.42	10.0000	34.20	_____
INSECTICIDE					
Pyrethrins	oz	3.12	32.0000	99.84	_____
SEED/PLANTS					
Snap Beans - Organic	lb	13.00	70.0000	910.00	_____
OTHER					
Bushel Box	each	1.20	150.0000	180.00	_____
Cooling Snap Beans	bu box	0.75	200.0000	150.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	11.8605	121.08	_____
HAND LABOR					
Implements	hour	8.28	10.7142	88.71	_____
GRD LABOR S. BEANS					
Special Labor	hour	8.28	20.0000	165.60	_____
R.B.ConveySnapBeans	hour	8.28	40.0000	331.20	_____
Rot.Pk Table S Beans	hour	8.28	2.0000	16.56	_____
UNALLOCATED LABOR	hour	10.20	2.3721	24.20	_____
DIESEL FUEL					
Tractors	gal	2.33	39.9040	92.99	_____
REPAIR & MAINTENANCE					
Implements	acre	119.99	1.0000	119.99	_____
Tractors	acre	9.07	1.0000	9.07	_____
R.B.ConveySnapBeans	bu	0.39	200.0000	79.68	_____
Rot.Pk Table S Beans	bu	0.03	200.0000	6.38	_____
INTEREST ON OP. CAP.	acre	36.08	1.0000	36.08	_____
TOTAL DIRECT EXPENSES				2494.71	_____
FIXED EXPENSES					
Implements	acre	233.02	1.0000	233.02	_____
Tractors	acre	67.99	1.0000	67.99	_____
R.B.ConveySnapBeans	each	192.96	0.0200	3.86	_____
Rot.Pk Table S Beans	each	170.48	0.0200	3.41	_____
TOTAL FIXED EXPENSES				308.28	_____
TOTAL SPECIFIED EXPENSES				2802.99	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 30.C Estimated monthly income and expense flows per acre  
 Organic - Snap beans, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	29.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	6.84	27.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	28.08	13.88	15.82	689.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	17.62	10.20	11.63	53.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.83	36.76	41.18	133.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.30	23.57	1.41	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	80.96	1101.09	97.40	1215.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-80.96	-1101.09	-97.40	-1215.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-80.96	-1182.05	-1279.45	-2494.71	-2494.71	-2494.71	-2494.71	-2494.71	-2494.71	-2494.71	-2494.71	-2494.71

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 30.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Snap beans, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

Snap Beans			-----BREAKEVEN PRICE-----										
			12.86	13.69	14.65	15.77	17.09	18.68	20.62	23.05	26.17	30.33	36.16
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	30lb	-1439	-1377	-1305	-1221	-1121	-1002	-856	-674	-440	-128	308
			-1747	-1685	-1613	-1529	-1430	-1310	-1165	-983	-749	-436	0
60	90.00	30lb	-1264	-1189	-1103	-1002	-883	-740	-565	-347	-66	308	832
			-1573	-1498	-1411	-1310	-1191	-1048	-873	-655	-374	0	524
70	105.00	30lb	-1089	-1002	-901	-784	-645	-478	-274	-19	308	745	1356
			-1398	-1310	-1210	-1092	-953	-786	-582	-327	0	436	1048
80	120.00	30lb	-915	-815	-700	-565	-406	-216	16	308	682	1182	1881
			-1223	-1123	-1008	-873	-715	-524	-291	0	374	873	1573
90	135.00	30lb	-740	-628	-498	-347	-168	46	308	635	1057	1619	2405
			-1048	-936	-806	-655	-476	-262	0	327	749	1310	2097
100	150.00	30lb	-565	-440	-296	-128	69	308	599	963	1431	2056	2929
			-873	-749	-605	-436	-238	0	291	655	1123	1747	2621
110	165.00	30lb	-390	-253	-95	89	308	570	890	1291	1806	2493	3454
			-699	-561	-403	-218	0	262	582	983	1498	2184	3146
120	180.00	30lb	-216	-66	106	308	546	832	1182	1619	2180	2929	3978
			-524	-374	-201	0	238	524	873	1310	1872	2621	3670
130	195.00	30lb	-41	121	308	526	784	1094	1473	1946	2555	3366	4502
			-349	-187	0	218	476	786	1165	1638	2247	3058	4194
140	210.00	30lb	133	308	509	745	1023	1356	1764	2274	2929	3803	5027
			-174	0	201	436	715	1048	1456	1966	2621	3495	4719
150	225.00	30lb	308	495	711	963	1261	1619	2056	2602	3304	4240	5551
			0	187	403	655	953	1310	1747	2293	2996	3932	5243

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 31.A Estimated resource use and costs for field operations, per acre  
 Organic - Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Sub-Soiler	2 Shank	2WD 75 hp	0.404	1.00	Feb	4.00	2.68	0.91	2.97	0.40	4.13				14.69
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
S. Peas - Organic	lb											10.0000	33.00	330.00	330.00
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	May	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Dipel ES	pt											3.0000	4.04	12.12	12.12
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	May	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	3.00	May	2.67	1.79	0.13	0.27	0.54	5.00				9.86
HARVEST LABOR	hour			1.00	May					75.00	621.00				621.00
5-Gal Bucket	each											20.0000	3.00	60.00	60.00
Sheller S. Peas	each			1.00	May				8.42			0.0200			8.42
100/10 lb bg S. Peas	acre							0.24		6.00	49.68	1.0000			49.92
R.B.Convey S. Peas	each			1.00	May				3.86			0.0200			3.86
Rot.Pk.Table S Peas	each			1.00	May				3.41			0.0200			3.41
Application 1	acre							0.13		3.00	24.84	1.0000			24.97
Bag Sealer S. Peas	each			1.00	May				1.11			0.0200			1.11
Application 1	acre							0.61		0.10	0.83	1.0000			1.44
TOTALS						47.70	31.99	50.01	133.44	89.19	747.87			481.17	1492.18
INTEREST ON OPERATING CAPITAL															14.59
UNALLOCATED LABOR															9.85
TOTAL SPECIFIED COST															1516.62

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 31.B Estimated costs per acre  
 Organic - Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
INSECTICIDE					
Pyrethrins	oz	3.12	16.0000	49.92	_____
Dipel ES	pt	4.04	3.0000	12.12	_____
SEED/PLANTS					
S. Peas - Organic	lb	33.00	10.0000	330.00	_____
OTHER					
5-Gal Bucket	each	3.00	20.0000	60.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	4.8257	49.28	_____
HARVEST LABOR					
Special Labor	hour	8.28	75.0000	621.00	_____
HAND LABOR					
Implements	hour	8.28	0.2700	2.24	_____
GRD LABOR S. PEAS					
Rot.Pk.Table S Peas	hour	8.28	3.0000	24.84	_____
Bag Sealer S. Peas	hour	8.28	0.1000	0.83	_____
Sheller S. Peas	hour	8.28	6.0000	49.68	_____
UNALLOCATED LABOR					
	hour	10.20	0.9651	9.85	_____
DIESEL FUEL					
Tractors	gal	2.33	18.6294	43.41	_____
REPAIR & MAINTENANCE					
Implements	acre	49.03	1.0000	49.03	_____
Tractors	acre	4.29	1.0000	4.29	_____
Rot.Pk.Table S Peas	acre	0.12	1.0000	0.13	_____
Bag Sealer S. Peas	acre	0.60	1.0000	0.61	_____
Sheller S. Peas	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	14.59	1.0000	14.59	_____
TOTAL DIRECT EXPENSES				1351.19	_____
FIXED EXPENSES					
Implements	acre	116.64	1.0000	116.64	_____
Tractors	acre	31.99	1.0000	31.99	_____
R.B.Convey S. Peas	each	192.96	0.0200	3.86	_____
Rot.Pk.Table S Peas	each	170.48	0.0200	3.41	_____
Bag Sealer S. Peas	each	55.67	0.0200	1.11	_____
Sheller S. Peas	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				165.43	_____
TOTAL SPECIFIED EXPENSES				1516.62	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 31.C Estimated monthly income and expense flows per acre  
 Organic - Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	49.92	12.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	17.21	8.34	17.45	714.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	12.63	6.13	12.80	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.27	1.95	17.60	32.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	1.21	0.36	6.24	6.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	42.65	16.78	434.01	837.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-42.65	-16.78	-434.01	-837.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-63.17	-79.95	-513.96	-1351.19	-1351.19	-1351.19	-1351.19	-1351.19	-1351.19	-1351.19	-1351.19

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 31.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Southern peas, fresh market - hand harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Southern Peas			10.11	10.83	11.66	12.63	13.78	15.16	16.85	18.95	21.66	25.27	30.33
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	101b	-845	-809	-767	-719	-661	-592	-508	-403	-267	-87	165
			-1011	-974	-933	-884	-827	-758	-674	-568	-433	-252	0
60	60.00	101b	-744	-701	-651	-592	-523	-441	-340	-213	-51	165	468
			-909	-866	-816	-758	-689	-606	-505	-379	-216	0	303
70	70.00	101b	-643	-592	-534	-466	-386	-289	-171	-24	165	418	772
			-808	-758	-699	-631	-551	-454	-337	-189	0	252	606
80	80.00	101b	-542	-484	-417	-340	-248	-137	-3	165	382	670	1075
			-707	-649	-583	-505	-413	-303	-168	0	216	505	909
90	90.00	101b	-441	-376	-301	-213	-110	13	165	355	598	923	1378
			-606	-541	-466	-379	-275	-151	0	189	433	758	1213
100	100.00	101b	-340	-267	-184	-87	27	165	333	544	815	1176	1682
			-505	-433	-349	-252	-137	0	168	379	649	1011	1516
110	110.00	101b	-239	-159	-67	39	165	317	502	734	1032	1429	1985
			-404	-324	-233	-126	0	151	337	568	866	1263	1819
120	120.00	101b	-137	-51	48	165	303	468	670	923	1248	1682	2288
			-303	-216	-116	0	137	303	505	758	1083	1516	2123
130	130.00	101b	-36	57	165	291	441	620	839	1113	1465	1934	2592
			-202	-108	0	126	275	454	674	947	1299	1769	2426
140	140.00	101b	64	165	282	418	579	772	1007	1302	1682	2187	2895
			-101	0	116	252	413	606	842	1137	1516	2022	2729
150	150.00	101b	165	273	398	544	716	923	1176	1492	1898	2440	3198
			0	108	233	379	551	758	1011	1327	1733	2274	3033

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 32.A Estimated resource use and costs for field operations, per acre  
Organic-Southern peas, fresh market-mechanical harvest  
Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Sub-Soiler	2 Shank	2WD 75 hp	0.404	1.00	Feb	4.00	2.68	0.91	2.97	0.40	4.13				14.69
Manure spreader	50bu	2WD 50 hp	1.000	1.00	Feb	6.57	4.30	0.11	1.62	1.00	10.21				22.81
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Apr	3.92	2.63	6.26	13.28	0.39	4.05				30.14
S. Peas - Organic	lb											10.0000	33.00	330.00	330.00
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	May	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Dipel ES	pt											3.0000	4.04	12.12	12.12
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	May	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Picker Beans/Peas	1 Row	2WD 75 hp	3.571	1.00	May	35.28	23.68	40.22	48.84	10.71	95.60				243.62
Sacks - S Peas	each											75.0000	0.65	48.75	48.75
Trailer-Southern Pea	16 ft	2WD 50 hp	3.571	1.00	May	23.47	15.35	1.86	4.01	7.14	66.03				110.72
Sheller S. Peas	each			1.00	May				8.42			0.0200			8.42
64/10 lb bg S. Peas	acre							0.24		6.00	49.68	1.0000			49.92
R.B.Convey S. Peas	each			1.00	May				3.86			0.0200			3.86
Rot.Pk.Table S Peas	each			1.00	May				3.41			0.0200			3.41
Application 1	acre							0.13		3.00	24.84	1.0000			24.97
Bag Sealer S. Peas	each			1.00	May				1.11			0.0200			1.11
Application 1	acre							0.61		0.10	0.83	1.0000			1.44
TOTALS						100.47	66.90	91.96	186.02	31.51	283.50			469.92	1198.77
INTEREST ON OPERATING CAPITAL															11.84
UNALLOCATED LABOR															23.88
TOTAL SPECIFIED COST															1234.49

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

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

Make sure all inputs are allowed by your licensing agency.



Table 32.B Estimated costs per acre  
 Organic-Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
INSECTICIDE					
Pyrethrins	oz	3.12	16.0000	49.92	_____
Dipel ES	pt	4.04	3.0000	12.12	_____
SEED/PLANTS					
S. Peas - Organic	lb	33.00	10.0000	330.00	_____
OTHER					
Sacks - S Peas	each	0.65	75.0000	48.75	_____
OPERATOR LABOR					
Tractors	hour	10.21	11.6986	119.44	_____
HAND LABOR					
Implements	hour	8.28	10.7142	88.71	_____
GRD LABOR S. PEAS					
Rot.Pk.Table S Peas	hour	8.28	3.0000	24.84	_____
Bag Sealer S. Peas	hour	8.28	0.1000	0.83	_____
Sheller S. Peas	hour	8.28	6.0000	49.68	_____
UNALLOCATED LABOR	hour	10.20	2.3397	23.88	_____
DIESEL FUEL					
Tractors	gal	2.33	39.2789	91.53	_____
REPAIR & MAINTENANCE					
Implements	acre	90.98	1.0000	90.98	_____
Tractors	acre	8.94	1.0000	8.94	_____
Rot.Pk.Table S Peas	acre	0.12	1.0000	0.13	_____
Bag Sealer S. Peas	acre	0.60	1.0000	0.61	_____
Sheller S. Peas	acre	0.24	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	11.84	1.0000	11.84	_____
TOTAL DIRECT EXPENSES				981.57	_____
FIXED EXPENSES					
Implements	acre	169.22	1.0000	169.22	_____
Tractors	acre	66.90	1.0000	66.90	_____
R.B.Convey S. Peas	each	192.96	0.0200	3.86	_____
Rot.Pk.Table S Peas	each	170.48	0.0200	3.41	_____
Bag Sealer S. Peas	each	55.67	0.0200	1.11	_____
Sheller S. Peas	each	421.05	0.0200	8.42	_____
TOTAL FIXED EXPENSES				252.92	_____
TOTAL SPECIFIED EXPENSES				1234.49	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 32.C Estimated monthly income and expense flows per acre  
 Organic-Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	49.92	12.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	48.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	17.21	8.34	17.45	264.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	9.64	6.13	12.80	62.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.95	1.95	17.60	79.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.72	1.11	0.36	6.24	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.52	39.24	16.78	434.01	471.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.52	-39.24	-16.78	-434.01	-471.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.52	-59.76	-76.54	-510.55	-981.57	-981.57	-981.57	-981.57	-981.57	-981.57	-981.57	-981.57

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 32.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic-Southern peas, fresh market-mechanical harvest  
 Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Southern Peas			12.85	13.77	14.83	16.07	17.53	19.28	21.43	24.11	27.55	32.14	38.57
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.00	101b	-570	-540	-506	-467	-420	-364	-295	-210	-99	47	252
			-822	-793	-759	-720	-673	-617	-548	-462	-352	-205	0
60	38.40	101b	-487	-452	-411	-364	-308	-240	-158	-55	76	252	499
			-740	-705	-664	-617	-561	-493	-411	-308	-176	0	246
70	44.80	101b	-405	-364	-316	-261	-195	-117	-21	98	252	458	746
			-658	-617	-569	-514	-448	-370	-274	-154	0	205	493
80	51.20	101b	-323	-276	-221	-158	-83	6	115	252	429	664	993
			-576	-529	-474	-411	-336	-246	-137	0	176	411	740
90	57.60	101b	-240	-187	-126	-55	28	129	252	407	605	870	1240
			-493	-440	-379	-308	-224	-123	0	154	352	617	987
100	64.00	101b	-158	-99	-31	47	140	252	390	561	781	1075	1487
			-411	-352	-284	-205	-112	0	137	308	529	822	1234
110	70.40	101b	-76	-11	62	150	252	376	527	715	958	1281	1734
			-329	-264	-189	-102	0	123	274	462	705	1028	1481
120	76.80	101b	6	76	157	252	365	499	664	870	1134	1487	1981
			-246	-176	-94	0	112	246	411	617	881	1234	1728
130	83.20	101b	88	164	252	355	477	623	801	1024	1311	1693	2228
			-164	-88	0	102	224	370	548	771	1058	1440	1975
140	89.60	101b	170	252	347	458	589	746	938	1178	1487	1898	2475
			-82	0	94	205	336	493	685	925	1234	1645	2222
150	96.00	101b	252	341	442	561	701	870	1075	1333	1663	2104	2721
			0	88	189	308	448	617	822	1080	1410	1851	2468

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 33.A Estimated resource use and costs for field operations, per acre  
 Organic - Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
BS.lay/tape/Squash	5ftctr	2WD 75 hp	1.294	1.00	Mar	12.79	8.58	2.02	7.50	1.29	13.21				44.10
Plastic Mulch	roll											2.2000	162.00	356.40	356.40
Drip Tape	roll											1.5000	156.00	234.00	234.00
Plntr/H20/pnch/seed	1 Row	2WD 75 hp	2.578	1.00	Apr	25.47	17.10	3.73	8.02	5.15	47.67				101.99
Squash Sd - Organic	lb											2.0000	160.00	320.00	320.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigation				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Fertigation				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Liquid Fish Fert.	gal											18.0000	15.61	280.98	280.98
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											9.0000	15.61	140.49	140.49
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Azatin EC	oz											28.0000	5.21	145.88	145.88
Neem Oil	pt											2.0000	5.27	10.54	10.54
Fertigation				4.00	May										
FERTIGATION LABOR	hour									4.00	33.12				33.12
Liquid Fish Fert.	gal											36.0000	15.61	561.96	561.96
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	10.00	Jun	8.90	5.97	0.42	0.91	1.80	16.64				32.84
HARVEST LABOR	hour			1.00	Jun					100.00	828.00				828.00
5-Gal Bucket	each											200.0000	3.00	600.00	600.00
Bushel Box	each											250.0000	1.20	300.00	300.00
GRADE & PACK LABOR	hour			10.00	Jun					110.00	910.80				910.80
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Jun	5.82	3.91	0.11	3.03	0.58	6.02				18.89
LABOR MULCH CLEANUP	hour									15.00	124.20				124.20
Irrigation Setup	acre				Apr							1.0000			471.30
TOTALS						81.48	54.68	47.60	114.72	244.72	2042.22			3657.47	6469.47
INTEREST ON OPERATING CAPITAL															88.28
UNALLOCATED LABOR															16.82
TOTAL SPECIFIED COST															6574.57

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.  
 Make sure all inputs are allowed by your licensing agency.

Table 33.B Estimated costs per acre  
 Organic - Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
Liquid Fish Fert.	gal	15.61	72.0000	1123.92	_____
FUNGICIDE					
Neem Oil	pt	5.27	3.0000	15.81	_____
INSECTICIDE					
Azatin EC	oz	5.21	42.0000	218.82	_____
SEED/PLANTS					
Squash Sd - Organic	lb	160.00	2.0000	320.00	_____
OTHER					
Plastic Mulch	roll	162.00	2.2000	356.40	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Bushel Box	each	1.20	250.0000	300.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.5000	234.00	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	8.2447	84.18	_____
HARVEST LABOR					
Special Labor	hour	8.28	100.0000	828.00	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	110.0000	910.80	_____
HAND LABOR					
Implements	hour	8.28	3.4781	28.80	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	8.0000	66.24	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR	hour	10.20	1.6489	16.82	_____
DIESEL FUEL					
Tractors	gal	2.33	31.8279	74.17	_____
REPAIR & MAINTENANCE					
Implements	acre	47.60	1.0000	47.60	_____
Tractors	acre	7.31	1.0000	7.31	_____
INTEREST ON OP. CAP.	acre	88.28	1.0000	88.28	_____
				-----	
TOTAL DIRECT EXPENSES				5933.87	_____
FIXED EXPENSES					
Implements	acre	114.72	1.0000	114.72	_____
Tractors	acre	54.68	1.0000	54.68	_____
Irrigation Setup	acre	471.30	1.0000	471.30	_____
				-----	
TOTAL FIXED EXPENSES				640.70	_____
				-----	
TOTAL SPECIFIED EXPENSES				6574.57	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 33.C Estimated monthly income and expense flows per acre  
 Organic - Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	38.46	0.00	561.96	561.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	15.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	218.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	356.40	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	234.00	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	14.95	24.19	98.08	33.12	1888.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.97	17.77	32.03	0.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.73	5.12	46.21	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.41	18.60	38.13	8.68	20.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	68.52	656.08	1781.10	603.76	2824.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-68.52	-656.08	-1781.10	-603.76	-2824.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-68.52	-724.60	-2505.70	-3109.46	-5933.87	-5933.87	-5933.87	-5933.87	-5933.87	-5933.87	-5933.87	-5933.87

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 33.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Squash - summer, fresh market, irrigated  
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Squash			17.93	19.12	20.50	22.11	24.01	26.29	29.08	32.57	37.05	43.02	51.38
PERCENT	YIELD	UNIT	-----dollars-----										
50	125.00	421b	-3540	-3391	-3219	-3018	-2780	-2495	-2147	-1711	-1151	-404	640
			-4181	-4032	-3859	-3658	-3421	-3136	-2787	-2352	-1792	-1045	0
60	150.00	421b	-3122	-2943	-2736	-2495	-2210	-1868	-1450	-927	-255	640	1895
			-3763	-3584	-3377	-3136	-2851	-2508	-2090	-1568	-896	0	1254
70	175.00	421b	-2704	-2495	-2254	-1972	-1640	-1241	-753	-143	640	1686	3149
			-3345	-3136	-2894	-2613	-2280	-1881	-1393	-784	0	1045	2508
80	200.00	421b	-2286	-2047	-1771	-1450	-1069	-613	-56	640	1536	2731	4404
			-2927	-2688	-2412	-2090	-1710	-1254	-696	0	896	2090	3763
90	225.00	421b	-1868	-1599	-1289	-927	-499	13	640	1424	2432	3776	5658
			-2508	-2240	-1929	-1568	-1140	-627	0	784	1792	3136	5017
100	250.00	421b	-1450	-1151	-806	-404	70	640	1337	2208	3328	4822	6913
			-2090	-1792	-1447	-1045	-570	0	696	1568	2688	4181	6272
110	275.00	421b	-1031	-703	-324	118	640	1267	2034	2992	4224	5867	8167
			-1672	-1344	-964	-522	0	627	1393	2352	3584	5226	7526
120	300.00	421b	-613	-255	158	640	1210	1895	2731	3776	5120	6913	9422
			-1254	-896	-482	0	570	1254	2090	3136	4480	6272	8781
130	325.00	421b	-195	192	640	1163	1781	2522	3428	4560	6017	7958	10676
			-836	-448	0	522	1140	1881	2787	3920	5376	7317	10035
140	350.00	421b	222	640	1123	1686	2351	3149	4125	5344	6913	9003	11930
			-418	0	482	1045	1710	2508	3484	4704	6272	8363	11290
150	375.00	421b	640	1088	1605	2208	2921	3776	4822	6129	7809	10049	13185
			0	448	964	1568	2280	3136	4181	5488	7168	9408	12544

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 34.A Estimated resource use and costs for field operations, per acre  
Organic - Sweet corn, fresh market hand harvest  
Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Sweet Corn-Organic	lb											9.0000	15.00	135.00	135.00
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Mar	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Mar	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Cultivate	2 Row	2WD 75 hp	0.390	1.00	Apr	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	7.00	May	16.98	11.40	68.83	154.87	1.71	17.55				269.63
Dipel ES	pt											7.0000	4.04	28.28	28.28
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Dipel ES	pt											3.0000	4.04	12.12	12.12
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jun	0.89	0.60	0.04	0.09	0.18	1.67				3.29
HARVEST & PACK LABOR	hour			1.00	Jun					50.00	414.00				414.00
Crates - Sweet Corn	each			1.00	Jun							200.0000	1.25	250.00	250.00
Ice + Cooling	crat											200.0000	0.70	140.00	140.00
TOTALS						58.65	39.35	107.56	247.42	56.02	475.35			603.86	1532.19
INTEREST ON OPERATING CAPITAL															16.43
UNALLOCATED LABOR															12.11
TOTAL SPECIFIED COST															1560.73

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

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

Make sure all inputs are allowed by your licensing agency.



Table 34.B Estimated costs per acre  
 Organic - Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
INSECTICIDE					
Dipel ES	pt	4.04	10.0000	40.40	_____
SEED/PLANTS					
Sweet Corn-Organic	lb	15.00	9.0000	135.00	_____
OTHER					
Crates - Sweet Corn	each	1.25	200.0000	250.00	_____
Ice + Cooling	crat	0.70	200.0000	140.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	5.9349	60.60	_____
HAND LABOR					
Implements	hour	8.28	0.0900	0.75	_____
HARVEST & PACK LABOR					
Special Labor	hour	8.28	50.0000	414.00	_____
UNALLOCATED LABOR	hour	10.20	1.1869	12.11	_____
DIESEL FUEL					
Tractors	gal	2.33	22.9112	53.38	_____
REPAIR & MAINTENANCE					
Implements	acre	107.56	1.0000	107.56	_____
Tractors	acre	5.27	1.0000	5.27	_____
INTEREST ON OP. CAP.	acre	16.43	1.0000	16.43	_____
TOTAL DIRECT EXPENSES				1273.96	_____
FIXED EXPENSES					
Implements	acre	247.42	1.0000	247.42	_____
Tractors	acre	39.35	1.0000	39.35	_____
TOTAL FIXED EXPENSES				286.77	_____
TOTAL SPECIFIED EXPENSES				1560.73	_____

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 34.C Estimated monthly income and expense flows per acre  
 Organic - Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	28.28	12.12	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	19.81	16.93	4.79	21.06	424.87	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	14.54	12.43	3.51	15.46	7.44	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	3.24	8.50	0.47	70.35	30.27	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	2.05	5.05	0.19	1.97	6.30	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	58.30	177.91	8.96	137.12	871.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-58.30	-177.91	-8.96	-137.12	-871.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-78.97	-256.88	-265.84	-402.96	-1273.96	-1273.96	-1273.96	-1273.96	-1273.96	-1273.96	-1273.96

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 34.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Sweet corn, fresh market hand harvest  
 Mississippi, MALTAG, 2008

Sweet Corn			-----BREAKEVEN PRICE-----										
			5.85	6.13	6.45	6.83	7.27	7.80	8.45	9.26	10.30	11.69	13.64
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-491	-464	-431	-394	-350	-297	-232	-151	-46	92	286
			-778	-750	-718	-681	-637	-583	-519	-437	-333	-194	0
60	120.00	5doz	-413	-380	-342	-297	-244	-180	-102	-5	119	286	520
			-700	-667	-628	-583	-530	-467	-389	-291	-166	0	233
70	140.00	5doz	-336	-297	-252	-199	-137	-63	27	140	286	481	753
			-622	-583	-539	-486	-424	-350	-259	-145	0	194	467
80	160.00	5doz	-258	-213	-162	-102	-31	53	157	286	453	676	987
			-545	-500	-449	-389	-318	-233	-129	0	166	389	700
90	180.00	5doz	-180	-130	-72	-5	74	169	286	432	620	870	1221
			-467	-417	-359	-291	-212	-116	0	145	333	583	934
100	200.00	5doz	-102	-46	17	92	180	286	416	578	787	1065	1454
			-389	-333	-269	-194	-106	0	129	291	500	778	1167
110	220.00	5doz	-24	36	107	189	286	403	546	724	954	1260	1688
			-311	-250	-179	-97	0	116	259	437	667	973	1401
120	240.00	5doz	53	119	196	286	392	520	676	870	1120	1454	1921
			-233	-166	-89	0	106	233	389	583	834	1167	1635
130	260.00	5doz	131	203	286	384	499	637	805	1016	1287	1649	2155
			-155	-83	0	97	212	350	519	729	1001	1362	1868
140	280.00	5doz	208	286	376	481	605	753	935	1162	1454	1843	2388
			-77	0	89	194	318	467	648	875	1167	1557	2102
150	300.00	5doz	286	370	466	578	711	870	1065	1308	1621	2038	2622
			0	83	179	291	424	583	778	1021	1334	1751	2335

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 35.A Estimated resource use and costs for field operations, per acre  
 Organic - Sweet corn, fresh market-train harvest  
 shipping, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Jan							0.4950	40.00	19.80	19.80
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 50 hp	1.000	1.00	Feb	6.57	4.30	0.11	1.62	1.00	10.21				22.81
Chicken Litter	ton											2.0000	9.33	18.66	18.66
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Feb	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Bed	2 Row	2WD 75 hp	0.284	1.00	Mar	2.81	1.88	0.19	0.90	0.28	2.90				8.68
Plntr - Vacuum	2 Row	2WD 75 hp	0.396	1.00	Mar	3.92	2.63	6.26	13.28	0.39	4.05				30.14
Sweet Corn-Organic	lb											9.0000	15.00	135.00	135.00
Cultivate	2 Row	2WD 75 hp	0.390	2.00	Mar	7.72	5.18	0.25	1.57	0.78	7.98				22.70
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Mar	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Apr	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	7.00	May	16.98	11.40	68.83	154.87	1.71	17.55				269.63
Dipel ES	pt											7.0000	4.04	28.28	28.28
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	7.28	4.88	29.50	66.37	0.73	7.52				115.55
Dipel ES	pt											3.0000	4.04	12.12	12.12
Mule Train (Corn)	30 ft	2WD 75 hp	0.229	1.00	Jun	2.26	1.52	10.50	97.29	7.56	63.06				174.63
Trailer(MuleTrn)Corn	16 ft	2WD 50 hp	0.229	1.00	Jun	1.50	0.98	1.78	3.84	0.68	6.14				14.24
Crates - Sweet Corn	each			1.00	Jun							200.0000	1.25	250.00	250.00
Ice + Cooling	crat											200.0000	0.70	140.00	140.00
TOTALS						61.28	40.98	120.51	352.91	14.40	132.05			603.86	1311.59
INTEREST ON OPERATING CAPITAL															14.13
UNALLOCATED LABOR															13.50
TOTAL SPECIFIED COST															1339.22

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 35.B Estimated costs per acre  
 Organic - Sweet corn, fresh market-train harvest  
 shipping, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	0.4950	19.80	_____
Chicken Litter	ton	9.33	2.0000	18.66	_____
INSECTICIDE					
Dipel ES	pt	4.04	10.0000	40.40	_____
SEED/PLANTS					
Sweet Corn-Organic	lb	15.00	9.0000	135.00	_____
OTHER					
Crates - Sweet Corn	each	1.25	200.0000	250.00	_____
Ice + Cooling	crat	0.70	200.0000	140.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	6.6139	67.53	_____
HARVEST LABOR					
Implements	hour	8.28	7.7917	64.52	_____
UNALLOCATED LABOR	hour	10.20	1.3227	13.50	_____
DIESEL FUEL					
Tractors	gal	2.33	23.9506	55.81	_____
REPAIR & MAINTENANCE					
Implements	acre	120.51	1.0000	120.51	_____
Tractors	acre	5.47	1.0000	5.47	_____
INTEREST ON OP. CAP.	acre	14.13	1.0000	14.13	_____
TOTAL DIRECT EXPENSES				945.33	_____
FIXED EXPENSES					
Implements	acre	352.91	1.0000	352.91	_____
Tractors	acre	40.98	1.0000	40.98	_____
TOTAL FIXED EXPENSES				393.89	_____
TOTAL SPECIFIED EXPENSES				1339.22	_____

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.

Table 35.C Estimated monthly income and expense flows per acre  
 Organic - Sweet corn, fresh market-train harvest  
 shipping, Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	19.80	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	28.28	12.12	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	19.81	21.72	3.80	21.06	79.16	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	11.55	15.95	2.79	15.46	10.06	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.92	8.97	0.98	70.35	42.76	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.87	1.93	5.30	0.17	1.97	3.89	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	20.67	54.87	186.94	7.74	137.12	537.99	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-20.67	-54.87	-186.94	-7.74	-137.12	-537.99	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-20.67	-75.54	-262.48	-270.22	-407.34	-945.33	-945.33	-945.33	-945.33	-945.33	-945.33	-945.33

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

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

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 35.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Sweet corn, fresh market-train harvest  
 shipping, Mississippi, MALTAG, 2008

Sweet Corn			-----BREAKEVEN PRICE-----										
			5.11	5.34	5.60	5.90	6.26	6.69	7.22	7.87	8.72	9.85	11.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-237	-214	-188	-158	-122	-79	-26	38	123	236	393
			-630	-608	-582	-552	-516	-473	-420	-354	-270	-157	0
60	120.00	5doz	-173	-146	-115	-79	-36	15	78	157	258	393	583
			-567	-540	-509	-473	-430	-378	-315	-236	-135	0	189
70	140.00	5doz	-110	-79	-42	-0	49	109	183	275	393	551	772
			-504	-473	-436	-394	-344	-283	-210	-118	0	157	378
80	160.00	5doz	-47	-11	29	78	135	204	288	393	529	709	961
			-441	-405	-363	-315	-258	-189	-105	0	135	315	567
90	180.00	5doz	15	55	102	157	221	299	393	512	664	867	1150
			-378	-337	-291	-236	-172	-94	0	118	270	473	757
100	200.00	5doz	78	123	175	236	307	393	499	630	799	1024	1340
			-315	-270	-218	-157	-86	0	105	236	405	630	946
110	220.00	5doz	141	191	248	315	393	488	604	748	934	1182	1529
			-252	-202	-145	-78	0	94	210	354	540	788	1135
120	240.00	5doz	204	258	321	393	479	583	709	867	1069	1340	1718
			-189	-135	-72	0	86	189	315	473	675	946	1324
130	260.00	5doz	267	326	393	472	565	677	814	985	1205	1498	1908
			-126	-67	0	78	172	283	420	591	811	1104	1514
140	280.00	5doz	330	393	466	551	651	772	919	1103	1340	1655	2097
			-63	0	72	157	258	378	525	709	946	1261	1703
150	300.00	5doz	393	461	539	630	738	867	1024	1221	1475	1813	2286
			0	67	145	236	344	473	630	828	1081	1419	1892

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 36.A Estimated resource use and costs for field operations, per acre  
Organic - Sweet potatoes  
Mississippi, MALTAG, 2008

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-----			
Trapping	acre			1.00	Apr							1.0000	1.00	1.00	1.00
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Apr	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Apr	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Apr	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Disk Bed	2 Row	2WD 75 hp	0.284	1.80	May	5.05	3.39	0.34	1.62	0.51	5.22				15.62
Trailer-Sweet Potato	16 ft	2WD 50 hp	0.598	1.00	May	3.93	2.57	4.65	10.04	0.59	6.11				27.30
Sweetpotato -Organic	thous											12.0000	30.00	360.00	360.00
Trailer Water	10 ft	2WD 75 hp	0.600	1.00	May	5.93	3.98	0.26	0.94	0.60	6.13				17.24
Planter/Transplanter	1 Row	2WD 75 hp	1.586	1.00	May	15.68	10.52	0.12	11.80	6.34	55.61				93.73
Crate Sweetpotato	each											2.0000	8.00	16.00	16.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Ditcher		2WD 75 hp	0.020	1.00	May	0.20	0.13	0.03	0.06	0.02	0.20				0.62
Scouting Sweetpotato	acre			1.00	May							1.0000	15.00	15.00	15.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Cultivate	2 Row	2WD 75 hp	0.390	1.00	May	3.86	2.59	0.12	0.79	0.39	3.99				11.35
Ditcher		2WD 75 hp	0.020	1.00	May	0.20	0.13	0.03	0.06	0.02	0.20				0.62
Cultivator - Rolling	2 Row	2WD 75 hp	0.310	1.00	Jun	3.07	2.06	0.70	4.46	0.31	3.17				13.46
Ditcher		2WD 75 hp	0.020	1.00	Jun	0.20	0.13	0.03	0.06	0.02	0.20				0.62
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Hand Weeding Swt.Pot	acre			1.00	Jul							1.0000	20.00	20.00	20.00
Disc Mower	10' Ft	2WD 75 hp	0.206	1.00	Aug	2.04	1.37	1.17	1.53	0.20	2.11				8.22
Stalk Shredder-Flail	15 ft	2WD 75 hp	0.110	1.00	Sep	1.10	0.74	0.36	1.27	0.11	1.13				4.60
Trailer-Sweet Potato	16 ft	2WD 75 hp	0.598	1.00	Sep	5.92	3.97	4.65	10.04	0.59	6.11				30.69
SWEET POTATO LABOR	hour									1.00	10.00				10.00
Truck	1/2 ton		2.310	1.00	Sep	10.60	13.65			2.31	23.59				47.84
Truck	1 ton +		1.730	1.00	Sep	4.12	17.73			1.73	17.66				39.51
Harvester,Swt.Potato	2-Row	MFWD 170	1.011	1.00	Sep	24.19	27.70	5.88	11.54	7.07	60.55				129.86
SWEET POTATO LABOR	hour									30.00	300.00				300.00
Bin Repair	each											2.0000	60.00	120.00	120.00
Custom Skid Loader				1.00	Sep										
SKID LOADER LABOR-2	hour									2.18	45.78				45.78
Custom Skid Loader-2	acre											1.0000	13.63	13.63	13.63
Fuel Skid Loader (2)	acre											1.0000	9.64	9.64	9.64
Fork Lift			2.220	1.00	Sep	5.73	9.19			2.22	22.67				37.59
Custom Haul Swt. Pot	acre			1.00	Sep							1.0000	70.00	70.00	70.00
Storage Sweetpotato	cwt			1.00	Sep							112.0000	2.00	224.00	224.00
Clean, grade, pack	box			1.00	Sep							330.0000	2.00	660.00	660.00
Box Sweetpotato	each											330.0000	1.26	415.80	415.80
Broker Sweetpotato	box			1.00	Sep							330.0000	1.00	330.00	330.00
TOTALS						115.09	115.46	49.63	126.44	58.60	594.47			2460.20	3461.29
INTEREST ON OPERATING CAPITAL															46.76
UNALLOCATED LABOR															29.79
TOTAL SPECIFIED COST															3537.84

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.



Table 36.B Estimated costs per acre  
Organic - Sweet potatoes  
Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Trapping	acre	1.00	1.0000	1.00	_____
Scouting Sweetpotato	acre	15.00	1.0000	15.00	_____
Custom Skid Loader-2	acre	13.63	1.0000	13.63	_____
Fuel Skid Loader (2)	acre	9.64	1.0000	9.64	_____
Custom Haul Swt. Pot	acre	70.00	1.0000	70.00	_____
FERTILIZER					
Chicken Litter	ton	9.33	1.0000	9.33	_____
INSECTICIDE					
Pyrethrins	oz	3.12	16.0000	49.92	_____
Azatin EC	oz	5.21	28.0000	145.88	_____
SEED/PLANTS					
Sweetpotato -Organic	thous	30.00	12.0000	360.00	_____
OTHER					
Crate Sweetpotato	each	8.00	2.0000	16.00	_____
Hand Weeding Swt.Pot	acre	20.00	1.0000	20.00	_____
Bin Repair	each	60.00	2.0000	120.00	_____
Storage Sweetpotato	cwt	2.00	112.0000	224.00	_____
Clean, grade, pack	box	2.00	330.0000	660.00	_____
Box Sweetpotato	each	1.26	330.0000	415.80	_____
Broker Sweetpotato	box	1.00	330.0000	330.00	_____
OPERATOR LABOR					
Tractors	hour	10.21	8.3385	85.13	_____
Self-Propelled	hour	10.21	6.2600	63.92	_____
PLANTING LABOR					
Implements	hour	8.28	4.7596	39.41	_____
HAND LABOR					
Implements	hour	8.28	6.0661	50.23	_____
SWEET POTATO LABOR					
Special Labor	hour	10.00	31.0000	310.00	_____
SKID LOADER LABOR-2					
Special Labor	hour	21.00	2.1800	45.78	_____
UNALLOCATED LABOR					
	hour	10.20	2.9197	29.79	_____
DIESEL FUEL					
Tractors	gal	2.33	36.3633	84.73	_____
Self-Propelled	gal	2.33	1.2456	2.90	_____
GASOLINE					
Self-Propelled	gal	2.73	3.1416	8.58	_____
LP GAS					
Self-Propelled	gal	1.88	2.3754	4.47	_____
REPAIR & MAINTENANCE					
Implements	acre	49.63	1.0000	49.63	_____
Tractors	acre	9.91	1.0000	9.91	_____
Self-Propelled	acre	4.50	1.0000	4.50	_____
INTEREST ON OP. CAP.	acre	46.76	1.0000	46.76	_____
TOTAL DIRECT EXPENSES				3295.94	_____
FIXED EXPENSES					
Implements	acre	126.44	1.0000	126.44	_____
Tractors	acre	74.89	1.0000	74.89	_____
Self-Propelled	acre	40.57	1.0000	40.57	_____
TOTAL FIXED EXPENSES				241.90	_____
TOTAL SPECIFIED EXPENSES				3537.84	_____

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

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

Make sure all inputs are allowed by your licensing agency.

Table 36.C Estimated monthly income and expense flows per acre  
 Organic - Sweet potatoes  
 Mississippi, MALTAG, 2008

ITEM	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	1.00	15.00	0.00	0.00	0.00	93.27	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	122.86	0.00	72.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	16.00	0.00	20.00	0.00	1749.80	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	19.81	91.09	4.04	3.01	2.53	503.78	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	14.54	36.15	2.97	2.21	1.86	42.95	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.24	28.77	1.03	10.05	1.35	19.60	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.09	24.43	0.23	2.37	0.08	17.56	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	50.01	694.30	8.27	110.58	5.82	2426.96	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-50.01	-694.30	-8.27	-110.58	-5.82	-2426.96	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-50.01	-744.31	-752.58	-863.16	-868.98	-3295.94	-3295.94	-3295.94	-3295.94	-3295.94	-3295.94	-3295.94

Note: Cost of production estimates are based on 2007 input prices.  
**Fertilization decisions should be based on soil tests.**  
 Make sure all inputs are allowed by your licensing agency.  
 \* Lease costs are based on hourly usage costs.

Table 36.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Sweet potatoes  
 Mississippi, MALTAG, 2008

Sweet Potatoes			-----BREAKEVEN PRICE-----										
			8.57	9.03	9.56	10.18	10.91	11.79	12.86	14.20	15.92	18.22	21.43
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	40lb	-1687	-1618	-1538	-1445	-1336	-1204	-1044	-843	-584	-240	241
			-1928	-1860	-1780	-1687	-1578	-1446	-1285	-1085	-826	-482	0
60	180.00	40lb	-1494	-1411	-1316	-1204	-1073	-915	-722	-481	-171	241	820
			-1736	-1653	-1557	-1446	-1315	-1157	-964	-723	-413	0	578
70	210.00	40lb	-1301	-1204	-1093	-963	-810	-626	-401	-119	241	724	1399
			-1543	-1446	-1335	-1205	-1052	-868	-642	-361	0	482	1157
80	240.00	40lb	-1108	-998	-870	-722	-547	-336	-79	241	655	1206	1977
			-1350	-1240	-1112	-964	-789	-578	-321	0	413	964	1736
90	270.00	40lb	-915	-791	-648	-481	-284	-47	241	603	1068	1688	2556
			-1157	-1033	-890	-723	-526	-289	0	361	826	1446	2314
100	300.00	40lb	-722	-584	-425	-240	-21	241	563	965	1481	2170	3135
			-964	-826	-667	-482	-263	0	321	723	1240	1928	2893
110	330.00	40lb	-529	-378	-203	0	241	531	884	1326	1895	2653	3713
			-771	-620	-445	-241	0	289	642	1085	1653	2411	3472
120	360.00	40lb	-336	-171	19	241	504	820	1206	1688	2308	3135	4292
			-578	-413	-222	0	263	578	964	1446	2066	2893	4050
130	390.00	40lb	-143	35	241	483	767	1109	1527	2050	2721	3617	4871
			-385	-206	0	241	526	868	1285	1808	2480	3375	4629
140	420.00	40lb	49	241	464	724	1031	1399	1849	2411	3135	4099	5449
			-192	0	222	482	789	1157	1607	2170	2893	3857	5208
150	450.00	40lb	241	448	687	965	1294	1688	2170	2773	3548	4581	6028
			0	206	445	723	1052	1446	1928	2531	3306	4340	5786

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.

Table 37.A Estimated resource use and costs for field operations, per acre  
 Organic - Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			0.33	Feb							0.3300	40.00	13.20	13.20
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	2.00	Mar	3.92	2.63	1.16	3.07	0.39	4.05				14.83
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Mar	1.96	1.32	0.58	1.53	0.19	2.02				7.41
BS.lay/tape/Tomato	6ftctr	2WD 75 hp	1.078	1.00	Mar	10.66	7.15	2.03	7.53	1.07	11.01				38.38
Plastic Mulch	roll											1.8000	162.00	291.60	291.60
Drip Tape	roll											1.2000	156.00	187.20	187.20
Plntr/H2O Tomato	1R 6ftcrt	2WD 75 hp	1.718	1.00	Apr	16.98	11.40	2.09	4.51	6.87	60.24				95.22
PLANTING LABOR	hour									30.00	248.40				248.40
Tomato Plts -Organic	thous											4.4000	52.01	228.84	228.84
Liquid Fish Fert.	gal											11.0000	15.61	171.71	171.71
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigation				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											11.0000	15.61	171.71	171.71
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Neem Oil	pt											2.0000	5.27	10.54	10.54
Azatin EC	oz											28.0000	5.21	145.88	145.88
Fertigation				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											11.0000	15.61	171.71	171.71
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Pyrethrins	oz											16.0000	3.12	49.92	49.92
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				2.00	Apr										
FERTIGATION LABOR	hour									2.00	16.56				16.56
Liquid Fish Fert.	gal											22.0000	15.61	343.42	343.42
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Pyrethrins	oz											32.0000	3.12	99.84	99.84
Neem Oil	pt											2.0000	5.27	10.54	10.54
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.85	3.26	19.67	44.25	0.49	5.01				77.04
Azatin EC	oz											28.0000	5.21	145.88	145.88
Neem Oil	pt											2.0000	5.27	10.54	10.54
Fertigation				1.00	May										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											11.0000	15.61	171.71	171.71
HAND & STOR LABOR	hour			1.00	May					10.00	82.80				82.80
Wood Stakes	100											44.0000	15.00	660.00	660.00
Plastic string	6000ft											4.0000	8.00	32.00	32.00
Fertigation				3.00	May										
FERTIGATION LABOR	hour									3.00	24.84				24.84
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13

(continued)

Table 37.A Estimated resource use and costs for field operations, per acre  
 Organic - Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008 (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-----				
Sucker Control				1.00	Jun											
HAND LABOR	hour										5.00	41.40				41.40
Fertigation				1.00	Jun											
FERTIGATION LABOR	hour										1.00	8.28				8.28
Liquid Fish Fert.	gal												11.0000	15.61	171.71	171.71
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51					38.52
Azatin EC	oz												14.0000	5.21	72.94	72.94
Neem Oil	pt												1.0000	5.27	5.27	5.27
Fertigation				3.00	Jun											
FERTIGATION LABOR	hour										3.00	24.84				24.84
Liquid Fish Fert.	gal												33.0000	15.61	515.13	515.13
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.43	1.63	9.83	22.12	0.24	2.51					38.52
Azatin EC	oz												14.0000	5.21	72.94	72.94
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	1.00	Jul	0.89	0.60	0.04	0.09	0.18	1.67					3.29
CustomHarvest Tomato	box			1.00	Jul								1600.0000	1.00	1600.00	1600.00
5-Gal Bucket	each												200.0000	3.00	600.00	600.00
GRADE & PACK LABOR	hour			1.00	Jul					320.00	2649.60					2649.60
Box Tomato	box												1600.0000	1.49	2384.00	2384.00
Mulch Lifter	1 Row	2WD 75 hp	0.589	1.00	Jul	5.82	3.91	0.11	3.03	0.58	6.02					18.89
LABOR MULCH CLEANUP	hour									15.00	124.20					124.20
Irrigation Setup	acre				Apr								1.0000			467.23
TOTALS						76.56	51.40	104.98	243.79	404.99	3368.30				9390.96	13703.22
INTEREST ON OPERATING CAPITAL																193.45
UNALLOCATED LABOR																15.79
TOTAL SPECIFIED COST																13912.46

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 37.B Estimated costs per acre  
 Organic - Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
CustomHarvest Tomato	box	1.00	1600.0000	1600.00	_____
FERTILIZER					
Lime (Spread)	ton	40.00	0.3300	13.20	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
Liquid Fish Fert.	gal	15.61	143.0000	2232.23	_____
FUNGICIDE					
Neem Oil	pt	5.27	8.0000	42.16	_____
INSECTICIDE					
Azatin EC	oz	5.21	98.0000	510.58	_____
Pyrethrins	oz	3.12	48.0000	149.76	_____
SEED/PLANTS					
Tomato Plts -Organic	thous	52.01	4.4000	228.84	_____
OTHER					
Plastic Mulch	roll	162.00	1.8000	291.60	_____
Wood Stakes	100	15.00	44.0000	660.00	_____
Plastic string	6000ft	8.00	4.0000	32.00	_____
5-Gal Bucket	each	3.00	200.0000	600.00	_____
Box Tomato	box	1.49	1600.0000	2384.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	1.2000	187.20	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	7.7471	79.10	_____
PLANTING LABOR					
Special Labor	hour	8.28	30.0000	248.40	_____
GRADE & PACK LABOR					
Special Labor	hour	8.28	320.0000	2649.60	_____
HAND & STOR LABOR					
Special Labor	hour	8.28	10.0000	82.80	_____
HAND LABOR					
Special Labor	hour	8.28	5.0000	41.40	_____
Implements	hour	8.28	5.2462	43.44	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	12.0000	99.36	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR					
	hour	10.19	1.5494	15.79	_____
DIESEL FUEL					
Tractors	gal	2.33	29.9069	69.69	_____
REPAIR & MAINTENANCE					
Implements	acre	104.98	1.0000	104.98	_____
Tractors	acre	6.87	1.0000	6.87	_____
INTEREST ON OP. CAP.	acre	193.45	1.0000	193.45	_____
TOTAL DIRECT EXPENSES				13150.04	_____
FIXED EXPENSES					
Implements	acre	243.79	1.0000	243.79	_____
Tractors	acre	51.40	1.0000	51.40	_____
Irrigation Setup	acre	467.23	1.0000	467.23	_____
TOTAL FIXED EXPENSES				762.42	_____
TOTAL SPECIFIED EXPENSES				13912.46	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 37.C Estimated monthly income and expense flows per acre  
 Organic - Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	22.53	0.00	858.55	686.84	686.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	15.81	21.08	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	268.74	245.72	72.94	72.94	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	228.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	291.60	0.00	692.00	0.00	2984.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	187.20	450.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	14.95	20.49	357.30	127.94	77.53	2785.88	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	10.97	15.05	24.30	8.84	2.21	8.32	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.73	5.26	43.81	40.20	10.05	10.80	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.20	18.94	65.57	39.87	12.45	54.42	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	52.38	538.54	2312.98	1862.49	867.29	7516.36	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-52.38	-538.54	-2312.98	-1862.49	-867.29	-7516.36	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-52.38	-590.92	-2903.90	-4766.39	-5633.68	-13150.04	-13150.04	-13150.04	-13150.04	-13150.04	-13150.04	-13150.04

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 37.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Tomatoes, fresh market, irrigated  
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

Tomatoes			-----BREAKEVEN PRICE-----										
			6.63	6.92	7.26	7.66	8.13	8.69	9.38	10.24	11.34	12.82	14.88
PERCENT	YIELD	UNIT	-----dollars-----										
50	800.00	251b	-5837	-5601	-5329	-5012	-4637	-4187	-3637	-2949	-2065	-887	762
			-6599	-6363	-6091	-5774	-5399	-4949	-4399	-3712	-2828	-1649	0
60	960.00	251b	-5177	-4894	-4568	-4187	-3737	-3197	-2537	-1712	-651	762	2742
			-5939	-5656	-5330	-4949	-4499	-3959	-3299	-2474	-1414	0	1979
70	1120.00	251b	-4517	-4187	-3806	-3362	-2837	-2207	-1437	-475	762	2412	4722
			-5279	-4949	-4568	-4124	-3599	-2969	-2199	-1237	0	1649	3959
80	1280.00	251b	-3857	-3480	-3045	-2537	-1937	-1217	-337	762	2176	4062	6702
			-4619	-4242	-3807	-3299	-2699	-1979	-1099	0	1414	3299	5939
90	1440.00	251b	-3197	-2773	-2283	-1712	-1037	-227	762	1999	3590	5712	8681
			-3959	-3535	-3045	-2474	-1799	-989	0	1237	2828	4949	7919
100	1600.00	251b	-2537	-2065	-1522	-887	-137	762	1862	3237	5005	7362	10661
			-3299	-2828	-2284	-1649	-899	0	1099	2474	4242	6599	9899
110	1760.00	251b	-1877	-1358	-760	-62	762	1752	2962	4474	6419	9011	12641
			-2639	-2121	-1522	-824	0	989	2199	3712	5656	8249	11879
120	1920.00	251b	-1217	-651	0	762	1662	2742	4062	5712	7833	10661	14621
			-1979	-1414	-761	0	899	1979	3299	4949	7071	9899	13859
130	2080.00	251b	-557	55	762	1587	2562	3732	5162	6949	9247	12311	16601
			-1319	-707	0	824	1799	2969	4399	6187	8485	11549	15839
140	2240.00	251b	102	762	1523	2412	3462	4722	6262	8186	10661	13961	18581
			-659	0	761	1649	2699	3959	5499	7424	9899	13199	17818
150	2400.00	251b	762	1469	2285	3237	4362	5712	7362	9424	12076	15611	20561
			0	707	1522	2474	3599	4949	6599	8661	11313	14849	19798

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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



Table 38.A Estimated resource use and costs for field operations, per acre  
 Organic - Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

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-----			
Lime (Spread)	ton			1.00	Jan							1.5000	40.00	60.00	60.00
Chisel Plow	9 Ft	2WD 75 hp	0.220	1.00	Feb	2.18	1.46	0.53	1.18	0.22	2.25				7.60
Manure spreader	50bu	2WD 75 hp	1.000	1.00	Feb	9.88	6.63	0.11	1.62	1.00	10.21				28.45
Chicken Litter	ton											1.0000	9.33	9.33	9.33
Disk Harrow	10 Ft	2WD 75 hp	0.198	1.00	Feb	1.96	1.32	0.58	1.53	0.19	2.02				7.41
BS.lay/tape/Melon	8ftctr	2WD 75 hp	0.808	1.00	Mar	8.00	5.36	2.06	7.62	0.80	8.26				31.30
Plastic Mulch	roll											1.4000	162.00	226.80	226.80
Drip Tape	roll											0.9000	156.00	140.40	140.40
Plntr/H2O Melon	1R 8ftctr	2WD 75 hp	0.645	1.00	Mar	6.37	4.28	1.06	2.27	2.58	22.62				36.60
Watermelon - Organic	lbs											1.8000	55.96	100.73	100.73
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	75.01	450.06	450.06
Fertigation				1.00	Mar										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				1.00	Apr										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Dipel ES	pt											1.0000	4.04	4.04	4.04
Fertigation				4.00	Apr										
FERTIGATION LABOR	hour									4.00	33.12				33.12
Liquid Fish Fert.	gal											132.0000	15.61	2060.52	2060.52
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				1.00	May										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Neem Oil	pt											1.0000	5.27	5.27	5.27
Fertigation				1.00	May										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13
Fertigation				1.00	Jun										
FERTIGATION LABOR	hour									1.00	8.28				8.28
Liquid Fish Fert.	gal											33.0000	15.61	515.13	515.13
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.43	1.63	9.83	22.12	0.24	2.51				38.52
Azatin EC	oz											14.0000	5.21	72.94	72.94
Trailer - Vegetables	16 ft	2WD 75 hp	0.090	4.00	Jun	3.56	2.39	0.17	0.36	0.72	6.66				13.14

(continued)

Table 38.A Estimated resource use and costs for field operations, per acre  
 Organic - Watermelons, irrigated  
 8 ft spacing with 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES RATE 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-----				
Harvest Labor Melons cwt			1.00	Jun								200.0000	2.00	400.00	400.00
Pallet Crates-1000lb each												20.0000	12.00	240.00	240.00
Plastic Clean Up			1.00	Jun											
Mulch Lifter	1 Row	2WD 75 hp	0.589			5.82	3.91	0.11	3.03	0.58	6.02				18.89
LABOR MULCH CLEANUP	hour									15.00	124.20				124.20
Irrigation Setup	acre			Mar								1.0000			459.10
TOTALS						49.92	33.50	53.77	128.21	31.34	269.31			6356.28	7350.09
INTEREST ON OPERATING CAPITAL															131.89
UNALLOCATED LABOR															10.30
TOTAL SPECIFIED COST															7492.28

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 38.B Estimated costs per acre  
 Organic - Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	40.00	1.5000	60.00	_____
Chicken Litter	ton	9.33	1.0000	9.33	_____
Liquid Fish Fert.	gal	15.61	297.0000	4636.17	_____
FUNGICIDE					
Neem Oil	pt	5.27	3.0000	15.81	_____
INSECTICIDE					
Dipel ES	pt	4.04	1.0000	4.04	_____
Azatin EC	oz	5.21	14.0000	72.94	_____
SEED/PLANTS					
Watermelon - Organic	lbs	55.96	1.8000	100.73	_____
OTHER					
Plastic Mulch	roll	162.00	1.4000	226.80	_____
Harvest Labor Melons	cwt	2.00	200.0000	400.00	_____
Pallet Crates-1000lb	each	12.00	20.0000	240.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	156.00	0.9000	140.40	_____
Rural Water	ac-in	75.01	6.0000	450.06	_____
OPERATOR LABOR					
Tractors	hour	10.21	5.0496	51.58	_____
HAND LABOR					
Implements	hour	8.28	2.2954	19.01	_____
FERTIGATION LABOR					
Special Labor	hour	8.28	9.0000	74.52	_____
LABOR MULCH CLEANUP					
Special Labor	hour	8.28	15.0000	124.20	_____
UNALLOCATED LABOR	hour	10.19	1.0099	10.30	_____
DIESEL FUEL					
Tractors	gal	2.33	19.4935	45.42	_____
REPAIR & MAINTENANCE					
Implements	acre	53.77	1.0000	53.77	_____
Tractors	acre	4.50	1.0000	4.50	_____
INTEREST ON OP. CAP.	acre	131.89	1.0000	131.89	_____
				-----	
TOTAL DIRECT EXPENSES				6871.47	_____
FIXED EXPENSES					
Implements	acre	128.21	1.0000	128.21	_____
Tractors	acre	33.50	1.0000	33.50	_____
Irrigation Setup	acre	459.10	1.0000	459.10	_____
				-----	
TOTAL FIXED EXPENSES				620.81	_____
				-----	
TOTAL SPECIFIED EXPENSES				7492.28	_____

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

Table 38.C Estimated monthly income and expense flows per acre  
 Organic - Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	60.00	9.33	515.13	2575.65	1030.26	515.13	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	5.27	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.04	0.00	72.94	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	100.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	226.80	0.00	0.00	640.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	590.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	17.37	42.13	47.42	22.58	150.11	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	12.75	13.08	4.42	4.42	10.75	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.49	4.41	20.10	20.10	11.17	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.63	1.53	43.54	58.11	15.86	10.22	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	62.63	43.47	1536.28	2715.01	1103.76	1410.32	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-62.63	-43.47	-1536.28	-2715.01	-1103.76	-1410.32	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-62.63	-106.10	-1642.38	-4357.39	-5461.15	-6871.47	-6871.47	-6871.47	-6871.47	-6871.47	-6871.47	-6871.47

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

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

Irrigation implies 6 acre inches applied as needed over the production period for both fertigation and water needs.

Make sure all inputs are allowed by your licensing agency.

\* Lease costs are based on hourly usage costs.

Table 38.D Breakeven price above total expenses and net returns for price/yield combinations, per acre  
 Organic - Watermelons, irrigated  
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

			-----BREAKEVEN PRICE-----										
Watermelons			25.64	27.33	29.28	31.55	34.23	37.46	41.39	46.32	52.65	61.09	72.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	cwt	-4105	-3936	-3741	-3514	-3246	-2923	-2530	-2037	-1404	-560	620
			-4726	-4557	-4362	-4135	-3866	-3544	-3150	-2658	-2025	-1181	0
60	120.00	cwt	-3632	-3430	-3196	-2923	-2601	-2214	-1742	-1151	-391	620	2038
			-4253	-4051	-3817	-3544	-3222	-2835	-2363	-1772	-1012	0	1417
70	140.00	cwt	-3160	-2923	-2651	-2333	-1957	-1505	-954	-265	620	1802	3456
			-3780	-3544	-3272	-2953	-2577	-2126	-1575	-886	0	1181	2835
80	160.00	cwt	-2687	-2417	-2105	-1742	-1312	-797	-166	620	1633	2983	4874
			-3308	-3038	-2726	-2363	-1933	-1417	-787	0	1012	2363	4253
90	180.00	cwt	-2214	-1911	-1560	-1151	-668	-88	620	1506	2646	4165	6292
			-2835	-2531	-2181	-1772	-1288	-708	0	886	2025	3544	5671
100	200.00	cwt	-1742	-1404	-1015	-560	-23	620	1408	2393	3659	5347	7710
			-2363	-2025	-1636	-1181	-644	0	787	1772	3038	4726	7089
110	220.00	cwt	-1269	-898	-469	30	620	1329	2196	3279	4671	6528	9128
			-1890	-1519	-1090	-590	0	708	1575	2658	4051	5907	8507
120	240.00	cwt	-797	-391	75	620	1265	2038	2983	4165	5684	7710	10545
			-1417	-1012	-545	0	644	1417	2363	3544	5063	7089	9925
130	260.00	cwt	-324	114	620	1211	1909	2747	3771	5051	6697	8891	11963
			-945	-506	0	590	1288	2126	3150	4430	6076	8270	11342
140	280.00	cwt	148	620	1166	1802	2554	3456	4559	5937	7710	10073	13381
			-472	0	545	1181	1933	2835	3938	5317	7089	9452	12760
150	300.00	cwt	620	1127	1711	2393	3198	4165	5347	6824	8722	11254	14799
			0	506	1090	1772	2577	3544	4726	6203	8102	10634	14178

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2007 input prices.



## APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, MALTAG, 2008

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Tractor (40-59hp)Cab	2WD 50 hp	28,063	600	8	2.57	10.21	5.99	0.87	17.08	6.56	23.65
Tractor (40-59hp)Cab	MFWD 50 hp	31,198	600	8	2.57	10.21	5.99	0.97	17.18	7.30	24.48
Tractor (40-59hp)RB	2WD 50 hp	18,365	600	8	2.57	10.21	5.99	0.57	16.78	4.29	21.07
Tractor (40-59hp)RB	MFWD 50 hp	23,443	600	8	2.57	10.21	5.99	0.73	16.93	5.48	22.42
Tractor (60-89hp)CAB	2WD 75 hp	38,645	600	8	3.86	10.21	8.99	1.20	20.41	9.04	29.45
Tractor (60-89hp)CAB	MFWD 75 hp	43,217	600	8	3.86	10.21	8.99	1.35	20.55	10.11	30.66
Tractor (60-89hp)RB	2WD 75 hp	28,341	600	8	3.86	10.21	8.99	0.88	20.09	6.63	26.72
Tractor (60-89hp)RB	MFWD 75 hp	32,988	600	8	3.86	10.21	8.99	1.03	20.23	7.71	27.95
Tractor(120-139hp)CB	MFWD 130	87,621	600	8	6.69	10.21	15.59	2.73	28.53	20.50	49.04
Tractor(160-179hp)CB	MFWD 170	113,379	600	8	8.75	10.21	20.38	3.54	34.14	27.40	61.54
Utility Vehicle	20 hp	10,914	200	13	0.60	10.21	1.63	0.83	12.68	6.50	19.19

## 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, MALTAG, 2008

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Fork Lift		29,800	1000	10	1.07	2.220	22.66	4.46	1.25	28.38	9.19	37.57
Sprayer(300-450GAL)	60 ft	78,034	350	8	5.66	0.017	0.25	0.23	0.07	0.55	0.58	1.14
Truck	1 ton +	39,343	780	5	0.72	1.730	17.66	2.90	1.22	21.78	17.72	39.51
Truck	1/2 ton	30,261	1040	5	1.36	2.310	23.58	8.57	2.01	34.17	13.65	47.83
Utility Vehicle	20 hp	10,914	200	13	0.60	0.249	2.55	0.40	0.20	3.17	1.62	4.79

## Notes:

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

Direct: Does not include interest on operating capital.







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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANT			Terraclor 75WP	lb	6.89
Crop oil Conc. (Veg)	pt	2.46	Tilt	oz	2.77
CUSTOM			Topsin	oz	0.87
Contract Plt BPepper	1000pl	13.75	HERBICIDE		
Custom Apply Fert	acre	9.00	Atrazine 4L	pt	1.17
Custom Haul Swt. Pot	acre	70.00	Bicep II Magnum	pt	4.71
Custom Skid Loader-2	acre	13.63	Command 3ME	pt	12.75
CustomHarvest Tomato	box	1.00	Curbit EC	pt	6.18
Fuel Skid Loader (2)	acre	9.64	Devrinol 50DF	lb	8.72
Scouting Sweetpotato	acre	15.00	Dual II Magnum	pt	13.43
Site Prep w/Dozer	acre	213.00	Dual Magnum	pt	12.64
Trapping	acre	1.00	Glyphomax	pt	3.49
FERTILIZER			Glystar Plus	pt	2.35
32% Liquid Nitrogen	qt	0.32	Goal 2XL	pt	10.54
Amm Nitrate (34%)	cwt	16.00	Goal 2XL	pt	10.54
Amm. Sulfate(21%N)	lb	0.18	Gramoxone Max	pt	5.09
Boron (20% Sol)	lb	0.42	Poast 1.53	pt	8.46
Calcium Nitrate	lbs	0.20	Princep 4L	gal	17.76
Calcium Nitrate	lb	0.20	Roundup Weathermax	gal	44.80
CalciumNitrateMelon	lb	0.20	Roundup Weathermax	pt	5.60
Chicken Litter	ton	9.33	Sandea	oz	40.03
Elemental Sulfur	lbs	0.35	Select 2EC	oz	1.35
Fert 10-10-10	lb	0.09	Solicam DF	lb	19.55
Fert 13-13-13	cwt	12.00	Strategy	pt	9.87
Fert 15-30-15	lb	0.18	Surflan AS	qt	12.50
Fert 5-20-30+S+B	cwt	24.10	Treflan HFP	pt	2.35
Lime (Spread)	ton	40.00	Valor	oz	4.32
Liquid Fish Fert.	gal	15.61	INSECTICIDE		
Liquid Lime Sulfur	gal	3.70	Admire 2F	pt	76.48
Phosphorus(46% P205)	cwt	14.00	Agri-Mek 15EC	oz	5.53
Potash (60% K2O)	cwt	13.00	Ambush 25WP	lb	9.20
Potassium Nitrate	lb	0.36	Asana XL	oz	0.71
Potassium Sulfate	lb	0.27	Azatin EC	oz	5.21
Sul-Po-Mag	lb	0.21	Brigade WSB	lb	19.89
Triple Superphosphat	lb	0.14	BT - Bac. Thuring.	lb	43.99
FUNGICIDE			Capture 2EC	oz	2.59
Basic Copper Sulfate	lb	1.50	Confirm 2F	oz	1.48
Botran 75W	lb	15.15	Diazion AG500	pt	4.96
Bravo Weather Stick	pt	5.57	Dimethoate 4EC	pt	4.69
Cabrio	oz	1.47	Dipel ES	pt	4.04
Captan 50 WP	lb	3.41	Endosulfan 3E	pt	3.06
Chateau WDG	oz	5.75	Endosulfan 3EC	pt	3.06
Dithane Rainshield	lb	2.46	Furadan 4 F	pt	9.13
Elevate 50 WDG	lb	32.44	Guthion 2L	pt	0.00
Headline	oz	1.88	Guthion 50WSP	lb	10.19
Kocide 3000	lb	5.40	Imidan 70 WSB	lb	8.66
Kocide DF	lb	3.42	K-Pam	Gal	7.50
Maneb 75 DF	lb	2.61	Lannate LV	pt	7.10
Manex	qt	4.34	Lorsban 4E	pt	4.40
Manzate 75 DF	lb	2.61	Malathion 57EC	pt	3.57
Mertect	oz	1.88	Malathion 5E	pt	3.18
Neem Oil	pt	5.27	Orthene 90 WSP	lb	8.85
Nova 40W	oz	3.83	Penncap-M	pt	11.37
Previcur Flex	oz	0.57	Pyrethrins	oz	3.12
Pristine	oz	2.16	Sevin XLR Plus	qt	8.14
Procure 480SC	oz	2.92	Spintor	oz	4.71
Quadris	oz	1.97	IRRIGATION SUPPLIES		
Ridomil Gold EC	oz	6.11	Adapter(Reg to Head)	1 1/2"	1.56
Ridomil Gold MZ	lb	12.19	Barb Lock Sleeve	1/4"	0.50
Ridomil Gold PC GR	lb	5.80	Cost of PumpingWater	6" in	24.00
Telone C-35	gal	0.00	Coupler	5/8"	0.75
Telone II	gal	13.84			

(continued)

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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Drip Tape	roll	156.00	Pallet Crates-1000lb	each	12.00
End Plug for Header	1 1/2"	1.55	Plastic Mulch	roll	150.00
Feeder Tube	ft	0.07	Plastic string	6000ft	8.00
Fertigation System	each	215.00	Pruner (Hand)	each	45.00
Header Line 1 1/2"	ft	0.38	Rec. Belt Conveyor	hour	1.43
Hole Punch	1/4"	3.00	Refrigeration-chill	month	375.00
Hose Clamp	1 1/2"	0.57	Rotary Packing Table	hour	7.19
Pressure Regulator	12 PSI	35.00	Row Covers	roll	147.00
PVC Female Adaptor	1 1/2"	3.65	Sacks - S Peas	each	0.65
PVC Fitting (adpt)	1 1/2"	0.85	Sheller w/Cleaner	hour	7.43
PVC Fitting (bush)	1 1/2"	1.38	Soil Test	each	6.00
Rural Water	ac-in	75.01	Soil Test Probe	each	75.00
Transfer Barb	1/4"	0.25	Stacking Bins	each	2.00
Y Filter	1"	17.00	Storage Sweetpotato	cwt	2.00
OTHER			Wood Stakes	100	15.00
15g tub Bell Pepper	each	7.50	SEED/PLANTS		
5-Gal Bucket	each	3.00	Broccoli - Hybrid	thous	34.65
Bag Sealer	hour	14.66	Broccoli - Hybrid	lb	850.00
Bag-secure row cover	each	0.10	Broccoli - Organic	thous	51.55
BB Mkting fee TN-Ark	lb	0.15	Cabbage - Hybrid	thous	31.27
BBMktingFee MS,AL,La	lb	0.15	Cabbage - Hybrid	lb	526.00
Bee Hive	each	52.00	Cabbage - Organic	thous	49.48
Bin Repair	each	60.00	Collard Seed - OP	lb	10.00
Bin Sweetpotato	each	60.00	Collard Seed -Hybrid	lb	145.00
Bin Vegetable	each	75.00	Cucumber - Hybrid	lb	126.00
Box Cabbage	each	2.10	Cucumber - Organic	lb	612.00
Box Sweetpotato	each	1.26	Greens - Hybrid	lb	73.00
Box Tomato	box	1.49	Greens - OP	lb	10.00
Boxes-Waxed	each	1.32	Greens - Organic	lb	27.75
Broker Sweetpotato	box	1.00	Lima Bean - Hybrid	lb	33.00
Bushel Box	each	1.20	Lima Bean - Organic	lb	59.00
Clean, grade, pack	box	2.00	Mustard Seed -Hybrid	lb	18.00
Cooling Box - Greens	box	0.25	Okra - Hybrid	lb	150.00
Cooling Snap Beans	bu box	0.75	Okra - OP	lb	5.00
CoolingBox S.Cabbage	box	0.25	Okra - Organic	lb	155.00
Crate Sweetpotato	each	8.00	Pepper Plants	100plt	7.98
Crates - Sweet Corn	each	1.25	Pepper Plts -Organic	100plt	7.77
Field Box	each	14.45	Pumpkin Sd - Organic	lb	102.67
Grain Drill 10' NRCS	acre	5.00	Pumpkin Seed Hybrid	lb	159.00
Grd & Pack S.Cabbage	box	1.40	S. Peas - Organic	lb	33.00
Hand Weeding Swt.Pot	acre	20.00	Snap Beans - Hybrid	lb	5.00
Harv.Labor S.Cabbage	box	1.35	Snap Beans - Organic	lb	13.00
Harvest Crates	each	12.50	Southern Peas - OP	lb	3.00
Harvest Labor Melons	cwt	2.00	Squash - Hybrid	lb	152.00
Harvest Labor Pepper	bu	0.70	Squash Sd - Organic	lb	160.00
Harvest Tomatoes	box	0.75	Sweetpotato -Organic	thous	30.00
Hauling	trip	25.00	Sweet Corn - Hybrid	lb	12.00
Ice	cwt	7.10	Sweet Corn - Organic	lb	15.00
Ice + Cooling	crat	0.70	Sweetpotato Plants	thous	25.00
Ice + Cooling	box	0.75	Tomato - Hybrid	lb	8336.00
Labor Clean up	acre	100.00	Tomato Plants-Hybrid	thous	96.78
Labor Grading Bean	hour	6.44	Tomato Plts -Organic	thous	52.01
Labor(Packing)	each	0.75	Turnip - Hybrid	lb	55.00
M-Pede Insect Soap	pt	2.12	Turnip Seed - OP	lb	9.00
Marketing Fee	box	1.00	Watermelon - Hybrid	lb	925.00
Mulch - MS,AL,LA.	cu yd	10.00	Watermelon - OP	lb	30.00
Mulch - TN & ARK	cu yd	15.00	Watermelon - Organic	lbs	55.96
Mythl Bromide 67/33	lb	3.65			

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

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.33
Electricity	kWh	0.14
Gasoline	gal	2.73
LP Gas	gal	1.88
Natural Gas	Mcf	0.00
INTEREST RATES		
Short-term	%	8.75
Intermediate-term	%	8.50

Appendix Table 6. Labor types, wage rates and unallocated  
labor multiplier, Mississippi, MALTAG, 2008

Item name	
LABOR TYPES	
	WAGE RATE (\$/HR)
OPERATOR LABOR	10.21
HARVEST LABOR	8.28
PLANTING LABOR	8.28
GRADE & PACK LABOR	8.28
MARKETING LABOR	8.28
HAND & STOR LABOR	8.28
HAND LABOR	8.28
FERTIGATION LABOR	8.28
HARVEST & PACK LABOR	8.28
HARVEST LABOR BEANS	8.28
LABOR BEAN TRAILER	8.28
GRD LABOR S. PEAS	8.28
TRAILER LABOR S. PEA	8.28
TRAILER LABOR CABBAG	8.28
LABOR MULCH CLEANUP	8.28
GRD LABOR LIMA BEANS	8.28
GRD LABOR S. BEANS	8.28
REFRESH STRAWBERRIES	8.28
SBERRY PALLET PKGING	10.00
SKID LOADER LABOR-2	21.00
CROP ENTERPRISE	UNALLOCATED LABOR MULTIPLIERS (%)
Vegetables	20

Appendix Table 7.F Estimated costs per acre  
 Drip tape irrigation system, 5 ft row spacing, 20 gpm  
 with 8,712 ft of drip tape, Mississippi, MALTAG, 2008

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	_____
INTEREST				36.92	_____
				-----	
TOTAL SPECIFIED EXPENSES				471.30	_____

Note: Cost of production estimates are based on 2007 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 \$471.30 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.F Estimated costs per acre  
 Drip tape irrigation system, 6 ft row spacing, 16 gpm  
 with 7,260 ft of drip tape, Mississippi, MALTAG, 2008

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	_____
INTEREST				36.60	_____
				-----	
TOTAL SPECIFIED EXPENSES				467.23	_____

Note: Cost of production estimates are based on 2007 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 \$467.23 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.F Estimated costs per acre  
 Drip tape irrigation system, 8 ft row spacing, 12 gpm  
 with 5,445 ft of drip tape, Mississippi, MALTAG, 2008

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	_____
INTEREST				35.97	_____
				-----	
TOTAL SPECIFIED EXPENSES				459.10	_____

Note: Cost of production estimates are based on 2007 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 \$459.10 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.



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