

# **2009 MALTAG ORGANIC VEGETABLES**



## **PLANNING BUDGETS**

**University of Georgia  
Department of Agricultural Economics  
College of Agriculture and Environmental Sciences  
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AGECON-09-003

## **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**

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# Table of Contents

	Page
Foreword.....	2
Acknowledgments .....	2
2009 Budget Committees .....	3
2009 Planning Budgets.....	5
Budgets for Agricultural Enterprises .....	5
Methods and Procedures.....	5
Production Practices .....	5
Machinery .....	5
Estimates of Direct Costs .....	5
Estimates of Fixed Costs .....	6
Estimates of Returns.....	6
Irrigation Costs.....	6
Marketing and Grading Costs.....	6
MALTAG State Coordinators .....	7
Tables:	
1 Organic - Bell pepper, fresh market (wholesale), irrigated 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Georgia, MALTAG, 2009.....	8
2 Organic - Broccoli - fall, fresh market Georgia, MALTAG, 2009 .....	11
3 Organic - Cabbage - spring, hand harvest Georgia, MALTAG, 2009 .....	12
4 Organic - Cucumbers, slicers, irrigated 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Georgia, MALTAG, 2009 .....	13
5 Organic - Greens (turnip, mustard, collards), fresh market Georgia, MALTAG, 2009.....	15
6 Organic - Lima / butter beans – hand harvest Georgia, MALTAG, 2009 .....	16
7 Organic - Lima / butter beans – mechanical harvest Georgia, MALTAG, 2009 .....	17
8 Organic - Okra, fresh market Georgia, MALTAG, 2009 .....	18
9 Organic - Pumpkin, wholesale/freshmarket, irrigated 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Georgia, MALTAG, 2009.....	19
10 Organic - Snap beans, fresh market – hand harvest Georgia, MALTAG, 2009 .....	21
11 Organic - Snap beans, fresh market – mechanical harvest Georgia, MALTAG, 2009.....	22
12 Organic - Southern peas, fresh market – hand harvest Georgia, MALTAG, 2009.....	23
13 Organic - Southern peas, fresh market – mechanical harvest Georgia, MALTAG, 2009 .....	24
14 Organic - Squash - summer, fresh market, irrigated 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Georgia, MALTAG, 2009 .....	25
15 Organic - Sweet corn, fresh market – hand harvest Georgia, MALTAG, 2009 .....	27
16 Organic - Sweet corn, fresh market train harvest (shipping) Georgia, MALTAG, 2009.....	28
17 Organic - Sweet potatoes Georgia, MALTAG, 2009 .....	29
18 Organic - Tomatoes, fresh market, irrigated, 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Georgia, MALTAG, 2009.....	31
19 Organic - Watermelons, irrigated, 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Georgia, MALTAG, 2009 .	34
Appendix Tables:	
1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour	36
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate and direct and fixed costs per hour.....	37
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre .....	38
4 Operating inputs: estimated prices.....	42
5 Estimated fuel prices and interest rates.....	46
6 Labor types, wage rates and unallocated labor multiplier.....	47
7 Drip tape irrigation system, 5 ft row spacing, 20 gpm with 8,712 ft of drip tape .....	48
8 Drip tape irrigation system, 6 ft row spacing, 16 gpm with 7,260 ft of drip tape .....	49
9 Drip tape irrigation system, 8 ft row spacing, 12 gpm with 5,445ft of drip tape.....	50

# 2009 Organic Vegetables Planning Budgets

## Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for vegetable crops produced by Georgia 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 University of Georgia and the U.S. Department of Agriculture review and update the practices in the

budgets every year. The updates are based on the collective judgment of the committee members. Quantities of materials and individual production practices are based on generally accepted recommendations by committee members.

### Machinery

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

The hours of annual use have been modified based on information collected from the cited studies. Repairs and maintenance as a percentage of new cost are estimated for the life of the equipment and include oil and lubricants.

### 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 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:

$$\text{RPH} = \frac{\text{RLC} \times \text{RP}}{\text{THL}}$$
$$\text{RPA} = \text{RPH} \times \text{PR}$$

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 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. 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. 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.

IIR

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

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:

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

$$CRCPA = CPCPH \times PR$$

where:

CPCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate 3

### 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.

### Estimates of Irrigation Costs

Generally, irrigation is recommended for vegetable production. Irrigation costs for the most commonly used irrigation systems are presented in Appendix 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.

(This section is extracted with permission from John Black, collaborator and Research Associate III of the Mississippi State Budget Generator used for the MALTAG project).

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Table 1. 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. Georgia, MALTAG, 2009.

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-----															
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	6ftctz	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

Continued



OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
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
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	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	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
Asatin 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
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	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	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

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-----			
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	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.

Table 2. Estimated resource use and costs for field operations, per acre. Organic - Broccoli - fall, fresh market. Georgia, MALTAG, 2009.

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-----				
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.

Table 3. Estimated resource use and costs for field operations, per acre. Organic - Cabbage - spring, hand harvest. Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		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
Asatin 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
Asatin 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.

Table 4. 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. Georgia, MALTAG, 2009.

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-----			
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
Plntx/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
Asatin 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
Asatin 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
Asatin EC	oz											14.0000	5.21	72.94				72.94

Continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOE LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
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
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.

Table 5. Estimated resource use and costs for field operations, per acre. Organic - Greens (turnip, mustard, collards), fresh market Georgia, MALTAG, 2009.

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-----			
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
Asatin 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.

Table 6. Estimated resource use and costs for field operations, per acre. Organic - Lima/butter beans - Hand harvest. Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		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
Asatin 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 Sealex 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.



Table 7. Estimated resource use and costs for field operations, per acre. Organic - Lima / butter beans - Mechanical harvest. Georgia, MALTAG, 2009.

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	CGST	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
Asatin 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
Fyrethrins	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
Fyrethrins	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.

Table 8. Estimated resource use and costs for field operations, per acre. Organic - Okra, fresh market. Georgia, MALTAG, 2009.

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-----															
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.

Table 9. 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, Georgia, MALTAG, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	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/H2O/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
Asatin 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
Fyrethrin	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

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-----			
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
Asatin 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
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
Asatin 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.

Table 10. Estimated resource use and costs for field operations, per acre. Organic - Snap beans, fresh market - Hand harvest. Georgia, MALTAG, 2009.

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-----				
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
Lead 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
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.

Table 11. Estimated resource use and costs for field operations, per acre. Organic - Snap beans, fresh market-mechanical harvest Georgia, MALTAG, 2009

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-----															
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.

Table 12. Estimated resource use and costs for field operations, per acre. Organic - Southern peas, fresh market - hand harvest. Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		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
Fyrethrxins	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 by 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.

Table 13. Estimated resource use and costs for field operations, per acre. Organic-Southern peas, fresh market-mechanical harvest Georgia, MALTAG, 2009.

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-----			
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.



Table 14. 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. Georgia, MALTAG, 2009.

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-----															
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	5ftcttr	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/H2O/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
Asatin 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
Asatin 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

Continued

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
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.

Table 15. Estimated resource use and costs for field operations, per acre. Organic - Sweet corn, fresh market hand harvest. Georgia, MALTAG, 2009.

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-----			
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.

Table 16. Estimated resource use and costs for field operations, per acre. Organic - Sweet corn, fresh market-train harvest shipping, Georgia, MALTAG, 2009.

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-----			
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.

Table 17. Estimated resource use and costs for field operations, per acre. Organic - Sweet potatoes. Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	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
Fyrethrin	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
Asatin 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
Asatin 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

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-----															
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.

Table 18. 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, Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		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
Plntx/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
Asatin 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
Asatin 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

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-----			
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
Asatin 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
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
Asatin 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
Asatin 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

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	
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.

Table 19. 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. Georgia, MALTAG, 2009.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES		MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	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

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-----			
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
Asatin 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
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.

Appendix 1: Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Georgia, MALTAG, 2009.

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	18.59	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 2: Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Georgia, MALTAG, 2009.

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 3: Towed equipment: estimated purchase price, annual use, useful life, performance rate and direct and fixed cost per acre, Georgia, MALTAG, 2009.

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		--Fixed---		Total Cost	
									Imp.	P.U.	Direct	Imp.		P.U.
			dollars	hours	years	hr/ac	-----\$/acre-----							
Bd Shaper (Blue B.)	Bed 8ftctr	2WD 75 hp	1,813	40	16	0.808	8.25	7.27	1.09	0.71	17.34	4.07	5.36	26.79
Bd Shaper Cucumber	Bed 4ftctr	2WD 75 hp	1,813	81	16	1.617	16.51	14.55	1.08	1.43	33.58	4.02	10.72	48.34
Bd Shaper Melons	Bed 8ftctr	2WD 75 hp	1,813	40	16	0.808	8.25	7.27	1.09	0.71	17.34	4.07	5.36	26.79
Bd Shaper Squash	Bed 5ftctr	2WD 75 hp	1,813	65	16	1.294	13.21	11.64	1.08	1.14	27.08	4.01	8.58	39.67
Bd Shaper Tomato	Bed 6ftctr	2WD 75 hp	1,813	54	16	1.078	11.01	9.70	1.08	0.95	22.75	4.02	7.15	33.93
Bd Shaper/LayMelon	Bed 8ftctr	2WD 75 hp	3,132	40	16	0.808	14.95	7.27	1.89	0.71	24.84	7.04	5.36	37.25
Bd Shaper/LaySquash	Bed 5ftctr	2WD 75 hp	3,132	65	16	1.294	23.92	11.64	1.87	1.14	38.58	6.93	8.58	54.10
Bd Shaper/LayTomato	Bed 6ftctr	2WD 75 hp	3,132	54	16	1.078	19.94	9.70	1.87	0.95	32.47	6.95	7.15	46.58
Bd Shaper/P-bdMelon	Bed 8ftctr	2WD 75 hp	9,800	40	16	0.808	8.25	7.27	5.94	0.71	22.19	22.23	5.36	49.78
Bd Shaper/P-bdSquash	Bed 5ftctr	2WD 75 hp	9,800	65	16	1.294	13.21	11.64	5.85	1.14	31.85	21.88	8.58	62.32
Bd Shaper/P-bdTomato	Bed 6ftctr	2WD 75 hp	9,800	54	16	1.078	11.01	9.70	5.87	0.95	27.53	21.95	7.15	56.64
Bd Shaper3XCucumber	Bed 4ftctr	2WD 75 hp	4,863	81	16	1.617	29.91	14.55	2.91	1.43	48.80	10.74	10.72	70.27
Bd Shaper3XMelon	Bed 8ftctr	2WD 75 hp	4,863	40	16	0.808	14.95	7.27	2.95	0.71	25.89	10.87	5.36	42.13
Bd Shaper3XSquash	Bed 5ftctr	2WD 75 hp	4,863	65	16	1.294	23.92	11.64	2.90	1.14	39.61	10.70	8.58	58.91
Bd Shaper3XTomato	Bed 6ftctr	2WD 75 hp	4,863	54	16	1.078	19.94	9.70	2.91	0.95	33.50	10.74	7.15	51.40
Bd Shpr/LayCucumber	Bed 4ftctr	2WD 75 hp	3,132	81	16	1.617	29.91	14.55	1.87	1.43	47.76	6.95	10.72	65.45
Bd Shpr/P-bdCucumber	Bed 4ftctr	2WD 75 hp	9,800	81	16	1.617	16.51	14.55	5.87	1.43	38.37	21.95	10.72	71.05
BS Lay/Tape BPepper	6ftctr	2WD 75 hp	3,388	54	16	1.078	11.01	9.70	2.02	0.95	23.69	7.52	7.15	38.37
BS, L,T,Fung BPepper	6ftctr	2WD 75 hp	5,388	54	16	1.078	37.79	9.70	3.22	0.95	51.68	11.96	7.15	70.80
BS,L,T,FumigTomato	6ftctr	2WD 75 hp	5,388	54	16	1.078	37.79	9.70	3.22	0.95	51.68	11.96	7.15	70.80
BS,L,T,Fung S Berry	6ftctr	2WD 75 hp	5,388	54	16	1.078	37.79	9.70	3.22	0.95	51.68	11.96	7.15	70.80
BS. lay/tape/Pumpkin	8ftctr	2WD 75 hp	3,388	40	16	0.808	0.82	0.72	0.20	0.07	1.83	0.76	0.53	3.12
BS.lay/tape/Cucumber	4ftctr	2WD 75 hp	3,388	81	16	1.617	16.51	14.55	2.02	1.43	34.52	7.52	10.72	52.78
BS.lay/tape/Melon	8ftctr	2WD 75 hp	3,388	40	16	0.808	8.25	7.27	2.05	0.71	18.30	7.62	5.36	31.28
BS.lay/tape/Squash	5ftctr	2WD 75 hp	3,388	65	16	1.294	13.21	11.64	2.02	1.14	28.02	7.50	8.58	44.10
BS.lay/tape/Tomato	6ftctr	2WD 75 hp	3,388	54	16	1.078	11.01	9.70	2.02	0.95	23.69	7.52	7.15	38.37
Chain Harrow	6 ft	20 hp	377	100	1	0.343	3.50	0.56	0.01	0.28	4.37	1.39	2.23	8.00
Chisel Plow	9 Ft	2WD 75 hp	6,655	150	12	0.220	2.24	1.98	0.52	0.19	4.95	1.18	1.46	7.59
Chisel Plow Folding	16 ft	MPWD 170	11,115	150	12	0.116	1.19	2.37	0.46	0.41	4.45	1.04	3.19	8.69
Cult + App Herb	4 Row	2WD 75 hp	6,566	150	10	0.193	2.78	1.74	0.33	0.17	5.03	1.12	1.28	7.44
Cult + Apply Ins	2 Row	2WD 75 hp	6,515	150	10	0.390	5.60	3.51	0.67	0.34	10.14	2.24	2.59	14.97
Cult + Apply Ins	4 Row	2WD 75 hp	6,566	150	10	0.193	2.78	1.74	0.33	0.17	5.03	1.12	1.28	7.44
Cult - Rolling+Fert	2 Row	2WD 75 hp	9,641	31	27	0.310	3.17	2.79	1.43	0.27	7.67	9.05	2.05	18.78
Cult - Rolling+Fert	4 Row	2WD 75 hp	17,492	17	27	0.165	2.37	1.48	2.51	0.14	6.52	15.94	1.09	23.56
Cult - Rotary Hoe	12 ft	2WD 75 hp	4,532	32	27	0.214	2.19	1.93	0.45	0.19	4.76	2.85	1.42	9.04
Cult - Rotary Hoe	15 ft	2WD 75 hp	3,588	26	27	0.171	1.75	1.54	0.35	0.15	3.80	2.22	1.13	7.16

Continued

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	-----\$/acre-----								
Cultipacker	12 Ft	2WD 75 hp	3,375	300	12	0.124	1.27	1.11	0.09	0.11	2.59	0.17	0.82	3.59	
Cultivate	2 Row	2WD 75 hp	1,268	59	27	0.390	3.98	3.51	0.12	0.34	7.97	0.78	2.59	11.35	
Cultivate	4 Row	2WD 75 hp	1,319	29	10	0.193	1.97	1.74	0.35	0.17	4.24	1.16	1.28	6.69	
Cultivate	4R-38	2WD 50 hp	8,155	150	10	0.193	1.97	1.16	0.42	0.11	3.67	1.39	0.83	5.90	
Cultivate	4R-38	2WD 50 hp	8,155	150	10	0.129	1.31	0.77	0.28	0.07	2.44	0.92	0.55	3.93	
Cultivate	8R-42	MFWD 130	17,020	150	10	0.073	0.75	1.14	0.33	0.20	2.43	1.10	1.51	5.05	
Cultivate+Sidedress	2 Row	2WD 75 hp	5,134	39	27	0.390	5.60	3.51	0.76	0.34	10.22	4.82	2.59	17.63	
Cultivate+Sidedress	4 Row	2WD 75 hp	5,954	19	27	0.193	2.78	1.74	0.69	0.17	5.59	5.69	1.28	12.57	
Cultivator	1 Row	2WD 75 hp	1,210	110	27	0.736	7.52	6.62	0.12	0.65	14.91	0.75	4.88	20.56	
Cultivator - Rolling	2 Row	2WD 75 hp	7,191	47	27	0.310	3.17	2.79	0.70	0.27	6.94	4.45	2.05	13.46	
Cultivator - Rolling	4 Row	2WD 75 hp	13,842	25	27	0.165	1.68	1.48	1.35	0.14	4.67	8.57	1.09	14.35	
Cyclone Spin	825 Lb	2WD 75 hp	831	50	8	0.084	0.85	0.75	0.05	0.07	1.74	0.22	0.55	2.53	
Disc Mower	10' Ft	2WD 75 hp	9,095	200	8	0.206	2.10	1.85	1.17	0.18	5.31	1.53	1.36	8.21	
Disk + Incorporate	10 Ft	2WD 75 hp	15,771	200	10	0.206	2.95	1.85	0.97	0.18	5.97	2.14	1.36	9.49	
Disk + Incorporate	14 Ft	2WD 75 hp	20,740	200	10	0.147	2.11	1.32	0.91	0.13	4.48	2.01	0.97	7.48	
Disk Bed	2 Row	2WD 75 hp	3,572	160	10	0.284	2.90	2.55	0.19	0.25	5.89	0.90	1.88	8.68	
Disk Bed	4 Row	2WD 75 hp	5,757	160	10	0.140	1.48	1.26	0.20	0.12	3.03	0.67	0.93	4.64	
Disk Bed (Hipper)	8R 40	MFWD 130	16,216	160	10	0.070	0.71	1.09	0.28	0.19	2.29	0.94	1.44	4.68	
Disk Bed + Spray PD	8R 40	MFWD 130	24,390	160	10	0.070	0.71	1.09	0.42	0.19	2.44	1.42	1.44	5.30	
Disk Bed +App Fert	4 Row	2WD 75 hp	5,757	160	10	0.141	2.02	1.26	0.20	0.12	3.61	0.67	0.93	5.22	
Disk Harrow	10 Ft	2WD 75 hp	10,524	180	10	0.198	2.02	1.78	0.57	0.17	4.56	1.53	1.31	7.41	
Disk Harrow	14 Ft	2WD 75 hp	15,493	180	10	0.141	1.44	1.27	0.60	0.12	3.45	1.61	0.93	6.00	
Disk Harrow	24 ft	MFWD 170	26,978	180	10	0.082	0.84	1.68	0.61	0.29	3.44	1.63	2.26	7.34	
Disk Harrow-Hvy Duty	5'	2WD 75 hp	2,255	180	10	0.412	4.21	3.71	0.25	0.36	8.54	0.68	2.73	11.96	
Ditcher		2WD 50 hp	4,304	200	10	0.020	0.20	0.11	0.03	0.01	0.37	0.05	0.08	0.51	
Fert Sprd Pull Type	10 ft	2WD 75 hp	3,770	12	10	0.235	2.40	2.12	2.22	0.20	6.95	10.53	1.56	19.05	
Fert Sprd Pull Type	12 ft	2WD 75 hp	3,986	10	10	0.196	2.00	1.76	2.34	0.17	6.29	11.14	1.30	18.73	
Fert Sprd Pull type	6 ft	2WD 75 hp	3,338	10	10	0.392	4.01	3.53	3.93	0.34	11.82	18.66	2.60	33.09	
Fert Sprd Pull Type	8 ft	2WD 75 hp	3,554	15	10	0.294	3.00	2.65	2.09	0.26	8.01	9.93	1.95	19.90	
Front end Loader	.5yd	2WD 75 hp	5,227	100	10	0.600	6.12	5.39	0.94	0.53	12.99	4.56	3.97	21.54	
Harvester,Swt.Potato	2-Row	MFWD 170	29,749	300	15	1.011	60.55	20.61	5.88	3.58	90.62	11.54	27.70	129.87	
Hay Disc Mower	10 ft	MFWD 130	9,095	200	8	0.206	2.10	1.85	1.17	0.18	5.31	1.53	1.36	8.21	
Manure spreader	50bu	2WD 50 hp	111	10	10	1.000	10.21	5.99	0.11	0.57	16.89	1.61	4.29	22.80	

(continued)

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

Continued

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Mulch Lifter	1 Row	2WD 75 hp	1,660	29	30	0.589	6.01	5.30	0.11	0.52	11.95	3.03	3.90	18.88
Mule Train (Corn)	30 ft	MFWD 75 hp	55,000	12	25	0.229	63.06	2.06	10.50	0.23	75.86	97.29	1.76	174.92
Picker Beans/Peas	1 Row	2WD 75 hp	28,800	179	10	3.571	95.60	32.12	40.22	3.16	171.11	48.84	23.68	243.64
Picker Corn	1 Row	2WD 75 hp	35,830	42	10	0.840	8.57	7.55	21.50	0.74	38.38	60.93	5.57	104.89
Planter/Transplanter	1 Row	2WD 75 hp	2,217	31	19	1.586	55.60	14.27	0.11	1.40	71.40	11.80	10.52	93.72
Plastic Layer Melon	Bd 8ftctr	2WD 75 hp	2,189	40	16	0.808	0.00	0.00	1.32	0.00	1.32	4.92	5.36	11.61
Plastic Layer Squash	Bd 5ftctr	2WD 75 hp	2,189	65	16	1.294	13.21	11.64	2.17	1.14	28.17	4.84	8.58	41.60
Plastic Layer Tomato	Bd 6ftctr	2WD 75 hp	2,189	54	16	1.078	11.01	9.70	2.18	0.95	23.85	4.86	7.15	35.86
Plastic Lyr Cucumber	Bd 4ftctr	2WD 75 hp	2,189	81	16	1.617	16.51	14.55	2.18	1.43	34.68	4.86	10.72	50.27
Plnt-Transplant-H2O	4R 36-48"	2WD 75 hp	10,862	34	17	0.687	58.25	6.18	0.25	0.60	65.30	23.58	4.55	93.44
Plnt/Transplants	4R 36-48"	2WD 75 hp	8,995	300	19	0.687	58.25	6.18	0.02	0.60	65.06	2.14	4.55	71.76
Plnt/Transplants	8R 42	MFWD 170	29,520	150	19	0.333	56.73	6.79	0.06	1.18	64.78	6.82	9.13	80.73
Plntr - Vacuum	1 Row	2WD 75 hp	3,950	53	18	1.057	10.79	9.51	3.94	0.93	25.19	8.36	7.01	40.56
Plntr - Vacuum	2 Row	2WD 75 hp	6,311	20	18	0.396	4.04	3.56	6.25	0.35	14.22	13.28	2.63	30.13
Plntr - Vacuum	4 Row	2WD 75 hp	11,405	11	18	0.226	2.31	2.03	11.74	0.20	16.30	24.93	1.50	42.74
Plntr - Vacuum	6 Row	2WD 75 hp	12,435	11	18	0.226	2.31	2.03	12.81	0.20	17.36	27.18	1.50	46.05
Plntr-vacuum+insect	1 Row	2WD 75 hp	9,197	53	18	1.057	10.79	9.51	9.17	0.93	30.42	19.47	7.01	56.91
Plntr-vacuum+insect	2R30-40	2WD 75 hp	11,558	20	18	0.396	4.04	3.56	11.46	0.35	19.42	24.32	2.63	46.38
Plntr-vacuum+insect	4R30-40"	2WD 75 hp	16,652	11	18	0.226	2.31	2.03	17.15	0.20	21.70	36.40	1.50	59.61
Plntr-vacuum+insect	6R30-40"	2WD 75 hp	17,682	11	18	0.158	1.61	1.42	12.75	0.14	15.93	27.05	1.05	44.05
Plntr-vacuum+insect	bed 4ftctr	2WD 75 hp	9,197	40	18	0.793	8.09	7.13	9.11	0.70	25.05	19.35	5.26	49.67
Plntr-vacuum+insect	Bed 5ftctr	2WD 75 hp	9,197	32	18	0.634	6.47	5.70	9.11	0.56	21.86	19.35	4.20	45.43
Plntr-vacuum+insect	Bed 6ftctr	2WD 75 hp	9,197	26	18	0.528	5.39	4.75	9.35	0.46	19.97	19.84	3.50	43.33
Plntr-vacuum+insect	Bed 8ftctr	2WD 75 hp	9,197	20	18	0.396	4.04	3.56	9.11	0.35	17.08	19.35	2.63	39.07
Plntr/H2O Cucumber	1R 4ftctr	2WD 75 hp	2,094	129	17	2.578	90.36	23.18	2.09	2.28	117.92	4.50	17.09	139.53
Plntr/H2O Cucumber	2R 4ftctr	2WD 75 hp	4,638	129	17	2.578	133.05	23.18	4.63	2.28	163.16	9.97	17.09	190.23
Plntr/H2O Melon	1R 8ftctr	2WD 75 hp	2,094	64	17	0.645	22.61	5.80	1.05	0.57	30.04	2.27	4.27	36.59
Plntr/H2O Melon	2R 8ftctr	2WD 75 hp	4,638	64	17	1.289	66.52	11.59	4.67	1.14	83.93	10.05	8.54	102.54

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

continued



Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M--- Imp. P.U.	Total Direct	--Fixed-- Imp. P.U.	Total Cost
			dollars	hours	years	hr/ac	-----\$/acre-----					
Plntr/H2O Squash	1R 5ftcrt	2WD 75 hp	2,094	103	17	2.062	72.29	18.55	2.09	1.82	94.76	4.51 13.67 112.95
Plntr/H2O Squash	2R 5ftctr	2WD 75 hp	4,638	103	17	2.062	106.44	18.55	4.64	1.82	131.46	9.99 13.67 155.14
Plntr/H2O Tomato	1R 6ftcrt	2WD 75 hp	2,094	86	17	1.718	60.24	15.45	2.09	1.52	79.31	4.50 11.39 95.21
Plntr/H2O Tomato	2R 6ftctr	2WD 75 hp	4,638	86	17	1.718	88.70	15.45	4.63	1.52	110.32	9.97 11.39 131.69
Plntr/H2O Wheel	2 Row	2WD 75 hp	4,638	74	17	1.473	76.03	13.25	4.61	1.30	95.20	9.93 9.76 114.91
Plntr/H2O/pnch/seed	1 Row	2WD 75 hp	3,729	129	17	2.578	47.66	23.18	3.72	2.28	76.86	6.02 17.09 101.98
Plntr/H2O/pnch/seed	2R18-60"	2WD 75 hp	7,458	129	17	1.586	29.33	14.27	4.58	1.40	49.59	9.87 10.52 69.99
Rotary Cutter	7 ft	2WD 75 hp	3,661	185	10	0.169	1.72	1.52	0.50	0.14	3.90	0.44 1.12 5.47
Rotary Tiller	5 ft	2WD 75 hp	1,749	49	18	0.970	9.90	8.73	2.42	0.85	21.92	3.66 6.43 32.02
Side Dresser	1R 3ft	2WD 75 hp	3,018	42	10	0.846	8.63	7.61	1.82	0.74	18.82	8.65 5.61 33.08
Side Dresser	2R 6ft	2WD 75 hp	3,866	21	10	0.423	0.00	0.00	2.33	0.00	2.33	11.08 2.80 16.22
Side Dresser	4R 40"	2WD 75 hp	4,635	10	10	0.195	0.00	0.00	2.71	0.00	2.71	12.87 1.29 16.88
Spray (Broadcast)	27'	2WD 50 hp	5,247	200	8	0.062	0.89	0.37	0.15	0.03	1.46	0.23 0.26 1.96
Spray (Broadcast)	60 ft	MFWD 130	7,794	200	8	0.028	0.40	0.43	0.10	0.07	1.02	0.15 0.57 1.75
Spray Methyl Bromide	1 Row	2WD 75 hp	2,000	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.00 0.00 0.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	9,611	12	16	0.245	2.50	2.20	9.83	0.21	14.76	22.12 1.62 38.51
Sprayer Air Blast	16' 200 ga	2WD 75 hp	11,942	12	16	0.245	2.50	2.20	12.21	0.21	17.15	27.49 1.62 46.26
Stalk Shredder-Flail	15 ft	2WD 50 hp	14,841	185	10	0.110	1.13	0.66	0.35	0.06	2.21	1.26 0.47 3.95
Sub-Soiler	1 shank	2WD 75 hp	528	54	23	1.078	11.01	9.70	0.31	0.95	21.98	1.03 7.15 30.16
Sub-Soiler	2 Shank	2WD 75 hp	1,497	20	23	0.404	4.12	3.63	0.90	0.35	9.03	2.97 2.68 14.68
Take Up Reel (M&T)	1 Row	2WD 75 hp	1,897	42	10	0.588	6.00	5.29	0.79	0.52	12.61	3.79 3.90 20.31
Take Up Reel (Mulch)	1 Row	2WD 75 hp	995	42	10	0.588	6.00	5.29	0.41	0.52	12.23	1.99 3.90 18.12
Take Up Reel (Tape)	1 Roll	2WD 75 hp	1,690	42	10	0.588	0.00	0.00	0.71	0.00	0.71	3.38 3.90 7.99
Trailer - Snap Bean	16 ft	2WD 75 hp	1,748	179	15	3.571	66.03	32.12	1.86	3.16	103.18	4.01 23.68 130.88
Trailer - Vegetables	16 ft	2WD 75 hp	1,748	200	15	0.090	1.66	0.80	0.04	0.07	2.59	0.09 0.59 3.28
Trailer Utility	10 ft	2WD 50 hp	1,060	200	15	0.600	6.12	3.59	0.08	0.34	10.15	0.36 2.57 13.09
Trailer Utility Limb	10 ft	2WD 75 hp	1,060	200	15	4.000	40.84	35.97	0.56	3.54	80.92	2.44 26.52 109.89
Trailer Water	10 ft	2WD 50 hp	1,656	150	10	0.600	6.12	3.59	0.26	0.34	10.33	0.94 2.57 13.85
Trailer (MuleTrn) Corn	16 ft	2WD 75 hp	1,748	12	15	0.229	6.13	2.06	1.78	0.20	10.17	3.84 1.51 15.54
Trailer-Lima/B. Bean	16 ft	2WD 75 hp	1,748	179	15	3.571	66.03	32.12	1.86	3.16	103.18	4.01 23.68 130.88
Trailer-Southern Pea	16 ft	2WD 75 hp	1,748	179	15	3.571	66.03	32.12	1.86	3.16	103.18	4.01 23.68 130.88
Trailer-Sweet Potato	16 ft	MFWD 130	1,748	12	15	0.598	6.11	9.33	4.65	1.63	21.74	10.04 12.27 44.05

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

Appendix 4: Operating inputs: estimated prices, Georgia, MALTAG 2009

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 1SEC	oz	5.53
Potash (60% K20)	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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
FUNGICIDE			IRRIGATION SUPPLIES		
Basic Copper Sulfate	lb	1.50	Capture 2EC	oz	2.59
Botran 75W	lb	15.15	Confirm 2F	oz	1.48
Bravo Weather Stick	pt	5.57	Diazion AG500	pt	4.96
Cabrio	oz	1.47	Dimethoate 4EC	pt	4.69
Captan 50 WP	lb	3.41	Dipel ES	pt	4.04
Chaleau WDG	oz	5.75	Endosulfan 3E	pt	3.06
Dithane Rainshield	lb	2.46	Endosulfan 3EC	pt	3.06
Elevate 50 WDG	lb	32.44	Furadan 4 F	pt	9.13
Headline	oz	1.88	Guthion 2L	pt	0.00
Kocide 3000	lb	5.40	Guthion 50WSP	lb	10.19
Kocide DF	lb	3.42	Imidan 70 WSB	lb	8.66
Maneb 75 DF	lb	2.61	K-Pam	Gal	7.50
Manex	qt	4.34	Lannate LV	pt	7.10
Manzate 75 DF	lb	2.61	Lorsban 4E	pt	4.40
Mertect	oz	1.88	Malathion 57EC	pt	3.57
Neem Oil	pt	5.27	Malathion SE	pt	3.18
Nova 40W	oz	3.83	Orthene 90 WSP	lb	8.85
Previcur Flex	oz	0.57	Penncap-M	pt	11.37
Pristine	oz	2.16	Pyrethrins	oz	3.12
Procure 480SC	oz	2.92	Sevin XLR Plus	qt	8.14
Quadris	oz	1.97	Spintor	oz	4.71
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 Pumping Water	6" in	24.00
Telone C-35	gal	0.00	Coupler	5/8"	0.75
Telone II	gal	13.84			(continued)

Continued

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollar:
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 Mktng fee TN-Ark	lb	0.15	Cabbage - Hybrid	thous	31.27
BBMktngFee 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

Continued

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
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	Sweatpotato -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 5: Estimated fuel prices and interest rates, Georgia, MALTAG, 2009.

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 6: Labor types, wage rates and unallocated labor multiplier, Georgia, MALTAG, 2009

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 7: Estimated costs per acre drip tape irrigation system, 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Georgia, MALTAG, 2009

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 8: Estimated costs per acre Drip tape irrigation system, 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Georgia, MALTAG, 2009

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 9: Estimated costs per acre drip tape irrigation system, 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Georgia, MALTAG, 2009.

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.