

**TRADITIONAL
VEGETABLES
2015
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2014-08**

December 2014

Foreword

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

Acknowledgments

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

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

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

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2015 Planning Budgets

Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for vegetable crops produced by Mississippi farmers. A multidisciplinary approach involving researchers and extension personnel was used to determine production practices and input quantities, and to estimate costs for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs for each budget included in this publication.

Enterprise budgets represent a type of information that can be used by a wide variety of individuals in making decisions in the food and fiber industry. They are used:

- by farmers for planning,
- by extension personnel in providing educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform non-farmers of the costs incurred by farmers in the production of food and fiber crops.

A budget should be prepared with a specific objective in mind. The budgets in this report were prepared to provide general information for several different uses. They provide information concerning general levels of costs which will need to be adjusted for specific situations. Most users should think of these budgets as a first approximation and then make appropriate adjustments using the "Your Farm" column provided on each budget to add, delete, or change costs to reflect their specific situations. Income is not included in the vegetable planning budgets due to the volatile nature of prices in the fresh produce market. Budgets reflect the cost of production per acre planted. The budgets allow the producer to determine the breakeven price needed for the vegetable grown. A sensitivity table reflecting different yields per acre compared to different market prices received for vegetables allows producers to estimate potential net returns.

Methods and Procedures

Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent current practices.

Committees made up of appropriate disciplines from the Mississippi Agricultural and Forestry Experiment Station, the Mississippi State University Extension Service, and the U.S. Department of Agriculture review and update the practices in the budgets every year. The updates are based on the collective judgement of the committee members. Quantities of materials and individual production practices are based on generally accepted recommendations by committee members.

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2014. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre. Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, 13).

The hours of annual use have been modified based on information collected from the cited studies (3, 4, 6, 7).

Repairs and maintenance as a percentage of new cost are estimated for the life of the equipment and include oil and lubricants (1, 4, 6).

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

Interest on operating capital is determined by using a short-term interest rate obtained from agricultural lenders and making a charge against capital outflows as the production process takes place. Interest is accumulated until the crop is harvested.

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

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

Estimates of Returns

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

Estimates of Irrigation Costs

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

A non-irrigated vegetable budget can be converted to an irrigated budget by adding the desired irrigation system costs to the non-irrigated vegetable budget. Costs for the water will vary depending on the water source. Climatic conditions during the growing season will dictate water usage.

Estimates of Marketing and Grading Costs

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

Enterprise Budgets

Table 1.A Estimated resource use and costs for field operations, per acre
 Bell pepper, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.3300	35.00	11.55	11.55
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Sep	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Oct	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Oct	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Fert 13-13-13	cwt											9.0000	21.21	190.89	190.89
Disk Bed	4-Row	2WD 75 hp	0.140	2.00	Oct	2.65	1.80	0.55	1.41	0.28	3.54				9.95
BS, Lay/Tape BPepper	Bed 6'cntr	2WD 75 hp	1.078	1.00	Oct	10.13	6.87	2.88	7.83	1.07	13.53				41.24
Plastic Mulch	roll											1.8000	166.00	298.80	298.80
Drip Tape	roll											1.2000	182.50	219.00	219.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	0.50	Nov	0.30	0.25	0.09	0.10	0.04	0.54				1.28
Goal 2XL	pt											1.2500	10.00	12.50	12.50
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Gramonone SL 2.0	oz											32.0000	0.32	10.24	10.24
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Mar	5.79	4.73	0.10	0.32	0.60	7.53				18.47
Pepper Plants	100plt											170.0000	16.50	2805.00	2805.00
Contract Plt BPepper	1000pl											17.0000	13.75	233.75	233.75
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Fertigate CAN03/KN03				2.00	Mar										
FERTIGATION LABOR	hour									5.00	49.35				49.35
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Orthene 90 S	lb											0.6700	6.55	4.39	4.39
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Quadris	oz											6.2000	2.86	17.73	17.73
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	49.35				49.35
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Apr	5.79	4.73	0.10	0.32	0.60	7.53				18.47
HAND LABOR	hour									15.00	148.05				148.05
Wood Stakes	100											36.0000	2.08	74.88	74.88
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Quadris	oz											6.2000	2.86	17.73	17.73
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	49.35				49.35
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Quadris	oz											6.2000	2.86	17.73	17.73
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	May	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Gramonone SL 2.0	oz											32.0000	0.32	10.24	10.24

(continued)

Table 1.A Estimated resource use and costs for field operations, per acre
 Bell pepper, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									5.00	49.35				49.35
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
1st Tying DB String				1.00	May										
HAND LABOR	hour									8.00	78.96				78.96
Plastic string	6000'											7.0000	11.00	77.00	77.00
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									5.00	49.35				49.35
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Radiant 1SC	oz											8.0000	6.20	49.60	49.60
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.61	0.49	0.17	0.20	0.09	1.10				2.57
Mustang Max	oz											4.0000	1.60	6.40	6.40
2nd Tying DB String				1.00	Jun										
HAND LABOR	hour									5.00	49.35				49.35
Plastic string	6000'											5.0000	11.00	55.00	55.00
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Jun	1.46	0.99	0.33	0.83	0.15	1.95				5.56
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Jun	5.79	4.73	0.10	0.32	0.60	7.53				18.47
HAND LABOR	hour									8.00	78.96				78.96
Harvest Labor Pepper	bu											1800.0000	0.83	1494.00	1494.00
1.75bu tub Bell Pepp	each											25.0000	18.98	474.50	474.50
Bins/Stacking 25bu	each											16.0000	20.30	324.80	324.80
Pack Line B. Peppers				1.00	Jun										
GRADE & PACK LABOR	hour									80.00	789.60				789.60
Boxes-Waxed	each											1800.0000	1.60	2880.00	2880.00
Rotary Cutter	7'	2WD 75 hp	0.169	1.00	Jul	1.60	1.08	0.60	0.41	0.16	2.13				5.82
Take Up Reel (Mulch)	1-Row	2WD 75 hp	0.588	1.00	Jul	5.53	3.75	0.59	2.25	0.58	7.38				19.50
HAND LABOR	hour									12.00	118.44				118.44
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Jul	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Irrigation Setup	acre				Mar							1.0000			325.67
TOTALS						50.92	37.43	7.84	18.21	158.65	1580.29			10111.04	12131.40
INTEREST ON OPERATING CAPITAL															155.14
UNALLOCATED LABOR															13.49
TOTAL SPECIFIED COST															12300.03

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 1.B Estimated costs per acre
 Bell pepper, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Contract Plt BPepper	1000pl	13.75	17.0000	233.75	_____
FERTILIZER					
Lime (Spread)	ton	35.00	0.3300	11.55	_____
Fert 13-13-13	cwt	21.21	9.0000	190.89	_____
Calcium Nitrate	lb	0.38	500.0000	190.00	_____
FUNGICIDE					
Kocide 2000	lb	6.90	4.5000	31.05	_____
Quadris	oz	2.86	18.6000	53.20	_____
HERBICIDE					
Goal 2XL	pt	10.00	1.2500	12.50	_____
Gramonone SL 2.0	oz	0.32	64.0000	20.48	_____
INSECTICIDE					
Orthene 90 S	lb	6.55	0.6700	4.39	_____
Radiant 1SC	oz	6.20	8.0000	49.60	_____
Mustang Max	oz	1.60	4.0000	6.40	_____
SEED/PLANTS					
Pepper Plants	100plt	16.50	170.0000	2805.00	_____
OTHER					
Plastic Mulch	roll	166.00	1.8000	298.80	_____
Wood Stakes	100	2.08	36.0000	74.88	_____
Plastic string	6000'	11.00	12.0000	132.00	_____
Harvest Labor Pepper	bu	0.83	1800.0000	1494.00	_____
1.75bu tub Bell Pepp	each	18.98	25.0000	474.50	_____
Bins/Stacking 25bu	each	20.30	16.0000	324.80	_____
Boxes-Waxed	each	1.60	1800.0000	2880.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	1.2000	219.00	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	5.3534	67.21	_____
GRADE & PACK LABOR					
Special Labor	hour	9.87	80.0000	789.60	_____
HAND LABOR					
Special Labor	hour	9.87	48.0000	473.76	_____
Implements	hour	9.87	0.3006	2.97	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	25.0000	246.75	_____
UNALLOCATED LABOR	hour	12.59	1.0706	13.49	_____
DIESEL FUEL					
Tractors	gal	2.15	20.6664	44.45	_____
REPAIR & MAINTENANCE					
Implements	acre	7.84	1.0000	7.84	_____
Tractors	acre	6.47	1.0000	6.47	_____
INTEREST ON OP. CAP.	acre	155.14	1.0000	155.14	_____
TOTAL DIRECT EXPENSES				11918.72	_____
FIXED EXPENSES					
Implements	acre	18.21	1.0000	18.21	_____
Tractors	acre	37.43	1.0000	37.43	_____
Irrigation Setup	acre	325.67	1.0000	325.67	_____
TOTAL FIXED EXPENSES				381.31	_____
TOTAL SPECIFIED EXPENSES				12300.03	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 1.C Estimated monthly income and expense flows per acre
 Bell pepper, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

ITEM	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	0.00	233.75	0.00	0.00	0.00	0.00	0.00
FERTILIZER	11.55	190.89	0.00	0.00	0.00	0.00	38.00	76.00	76.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.16	28.08	0.00	0.00	0.00
HERBICIDE	0.00	0.00	12.50	0.00	0.00	0.00	10.24	0.00	10.24	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.39	56.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	2805.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	298.80	0.00	0.00	0.00	0.00	0.00	74.88	77.00	5228.30	0.00	0.00
IRRIGATION SUPPLIES	0.00	219.00	0.00	0.00	0.00	0.00	604.26	0.00	0.00	0.00	0.00	0.00
LABOR	2.99	24.75	0.62	0.00	0.00	0.00	59.65	258.31	185.32	929.29	132.85	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.65	13.64	0.26	0.00	0.00	0.00	5.50	6.02	3.17	6.27	7.94	0.00
REPAIR & MAINTENANCE	0.65	5.75	0.13	0.00	0.00	0.00	1.17	1.43	1.09	1.41	2.68	0.00
INTEREST ON OP. CAP.	0.68	27.60	0.44	0.00	0.00	0.00	68.90	6.99	4.80	45.21	0.52	0.00
TOTAL DIRECT EXPENSES	17.52	780.43	13.95	0.00	0.00	0.00	3826.47	484.18	441.70	6210.48	143.99	0.00
NET INCOME	-17.52	-780.43	-13.95	0.00	0.00	0.00	-3826.47	-484.18	-441.70	-6210.48	-143.99	0.00
NET INCOME TO DATE	-17.52	-797.95	-811.90	-811.90	-811.90	-811.90	-4638.37	-5122.55	-5564.25	-11774.73	-11918.72	-11918.72

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 1.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Bell pepper, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Bell Pepper			5.09	5.34	5.62	5.96	6.35	6.83	7.41	8.13	9.07	10.31	12.05
PERCENT	YIELD	UNIT	-----dollars-----										
50	900.00	Bu	-5884 -6265	-5660 -6042	-5402 -5783	-5101 -5482	-4745 -5126	-4318 -4699	-3795 -4177	-3143 -3524	-2304 -2685	-1185 -1566	381 0
60	1080.00	Bu	-5258 -5639	-4989 -5370	-4679 -5060	-4318 -4699	-3890 -4272	-3378 -3759	-2751 -3132	-1968 -2349	-961 -1342	381 0	2261 1879
70	1260.00	Bu	-4631 -5012	-4318 -4699	-3956 -4337	-3534 -3916	-3036 -3417	-2438 -2819	-1707 -2088	-793 -1174	381 0	1947 1566	4140 3759
80	1440.00	Bu	-4004 -4386	-3646 -4028	-3233 -3614	-2751 -3132	-2182 -2563	-1498 -1879	-663 -1044	381 0	1724 1342	3514 3132	6020 5639
90	1620.00	Bu	-3378 -3759	-2975 -3356	-2510 -2891	-1968 -2349	-1327 -1708	-558 -939	381 0	1556 1174	3066 2685	5080 4699	7900 7519
100	1800.00	Bu	-2751 -3132	-2304 -2685	-1787 -2168	-1185 -1566	-473 -854	381 0	1425 1044	2731 2349	4409 4028	6647 6265	9780 9398
110	1980.00	Bu	-2125 -2506	-1632 -2014	-1064 -1445	-401 -783	381 0	1321 939	2469 2088	3905 3524	5752 5370	8213 7832	11660 11278
120	2160.00	Bu	-1498 -1879	-961 -1342	-341 -722	381 0	1235 854	2261 1879	3514 3132	5080 4699	7094 6713	9780 9398	13539 13158
130	2340.00	Bu	-871 -1253	-290 -671	381 0	1164 783	2090 1708	3200 2819	4558 4177	6255 5874	8437 8056	11346 10965	15419 15038
140	2520.00	Bu	-245 -626	381 0	1104 722	1947 1566	2944 2563	4140 3759	5602 5221	7430 7049	9780 9398	12913 12531	17299 16918
150	2700.00	Bu	381 0	1052 671	1827 1445	2731 2349	3799 3417	5080 4699	6647 6265	8605 8224	11122 10741	14479 14098	19179 18797

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 2.A Estimated resource use and costs for field operations, per acre
 Broccoli, fall, fresh market
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jul							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Aug	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Aug	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Aug	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Fert 13-13-13	cwt											8.0000	21.21	169.68	169.68
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Aug	1.94	1.31	0.85	1.45	0.30	3.61				9.16
Treflan 4D	pt											1.5000	3.40	5.10	5.10
Plntr/H2O Wheel	2-Row	2WD 75 hp	1.473	1.00	Aug	13.85	9.39	5.36	8.28	8.83	91.19				128.07
PLANTING LABOR	hour									30.00	296.10				296.10
Broccoli Plants	thous											18.0000	30.17	543.06	543.06
Cultivate+App Ins	4-Row	2WD 75 hp	0.193	1.00	Aug	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Admire Pro	oz											8.0000	2.95	23.60	23.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Radiant 1SC	oz											8.0000	6.20	49.60	49.60
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Sep	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											2.3000	24.00	55.20	55.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Avaunt 30 WDG	oz											3.0000	6.53	19.59	19.59
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											8.0000	6.20	49.60	49.60
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Nov	0.85	0.57	0.05	0.08	0.18	2.02				3.57
HARVEST & PACK LABOR	hour			1.00	Nov					125.00	1233.75				1233.75
Boxes-Waxed	each											300.0000	1.60	480.00	480.00
Ice + Cooling	box											300.0000	1.38	414.00	414.00
TOTALS						36.11	24.50	47.92	81.72	166.59	1654.58			1846.71	3691.54
INTEREST ON OPERATING CAPITAL															28.15
UNALLOCATED LABOR															9.67
TOTAL SPECIFIED COST															3729.36

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 2.B Estimated costs per acre
 Broccoli, fall, fresh market
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	8.0000	169.68	_____
Amm Nitrate (34%)	cwt	24.00	2.3000	55.20	_____
FUNGICIDE					
Bravo Weather Stick	pt	4.43	4.5000	19.93	_____
HERBICIDE					
Treflan 4D	pt	3.40	1.5000	5.10	_____
INSECTICIDE					
Admire Pro	oz	2.95	8.0000	23.60	_____
Radiant 1SC	oz	6.20	16.0000	99.20	_____
Avaunt 30 WDG	oz	6.53	3.0000	19.59	_____
SEED/PLANTS					
Broccoli Plants	thous	30.17	18.0000	543.06	_____
OTHER					
Boxes-Waxed	each	1.60	300.0000	480.00	_____
Ice + Cooling	box	1.38	300.0000	414.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	3.8404	48.20	_____
PLANTING LABOR					
Special Labor	hour	9.87	30.0000	296.10	_____
HAND LABOR					
Implements	hour	9.87	7.7530	76.53	_____
HARVEST & PACK LABOR					
Special Labor	hour	9.87	125.0000	1233.75	_____
UNALLOCATED LABOR	hour	12.58	0.7680	9.67	_____
DIESEL FUEL					
Tractors	gal	2.15	14.8256	31.89	_____
REPAIR & MAINTENANCE					
Implements	acre	47.92	1.0000	47.92	_____
Tractors	acre	4.22	1.0000	4.22	_____
INTEREST ON OP. CAP.	acre	28.15	1.0000	28.15	_____
TOTAL DIRECT EXPENSES				3623.14	_____
FIXED EXPENSES					
Implements	acre	81.72	1.0000	81.72	_____
Tractors	acre	24.50	1.0000	24.50	_____
TOTAL FIXED EXPENSES				106.22	_____
TOTAL SPECIFIED EXPENSES				3729.36	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 2.C Estimated monthly income and expense flows per acre
 Broccoli, fall, fresh market
 Mississippi, 2015

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	169.68	55.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	6.65	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	23.60	69.19	49.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	543.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	894.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	409.57	14.98	3.70	1236.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	21.37	7.73	2.04	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	10.45	31.40	10.14	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.32	17.44	2.10	0.48	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.65	1206.92	193.90	65.96	2138.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.65	-1206.92	-193.90	-65.96	-2138.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.65	-1224.57	-1418.47	-1484.43	-3623.14	-3623.14	-3623.14	-3623.14	-3623.14	-3623.14	-3623.14	-3623.14

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 2.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Broccoli, fall, fresh market
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Broccoli			8.82	9.33	9.93	10.62	11.44	12.43	13.63	15.13	17.07	19.64	23.25
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	211b	-2058 -2165	-1981 -2087	-1892 -1998	-1788 -1894	-1665 -1771	-1517 -1623	-1337 -1443	-1111 -1217	-821 -927	-435 -541	106 0
60	180.00	211b	-1842 -1948	-1749 -1855	-1642 -1748	-1517 -1623	-1369 -1476	-1192 -1299	-976 -1082	-705 -811	-357 -463	106 0	755 649
70	210.00	211b	-1625 -1732	-1517 -1623	-1392 -1498	-1246 -1353	-1074 -1180	-868 -974	-615 -721	-299 -405	106 0	647 541	1405 1299
80	240.00	211b	-1409 -1515	-1285 -1391	-1142 -1249	-976 -1082	-779 -885	-543 -649	-254 -360	106 0	570 463	1188 1082	2054 1948
90	270.00	211b	-1192 -1299	-1053 -1159	-893 -999	-705 -811	-484 -590	-218 -324	106 0	512 405	1034 927	1730 1623	2704 2598
100	300.00	211b	-976 -1082	-821 -927	-643 -749	-435 -541	-189 -295	106 0	467 360	918 811	1498 1391	2271 2165	3353 3247
110	330.00	211b	-759 -866	-589 -695	-393 -499	-164 -270	106 0	430 324	827 721	1324 1217	1961 1855	2812 2706	4003 3897
120	360.00	211b	-543 -649	-357 -463	-143 -249	106 0	401 295	755 649	1188 1082	1730 1623	2425 2319	3353 3247	4652 4546
130	390.00	211b	-326 -433	-125 -231	106 0	376 270	696 590	1080 974	1549 1443	2135 2029	2889 2783	3895 3788	5302 5196
140	420.00	211b	-110 -216	106 0	356 249	647 541	991 885	1405 1299	1910 1804	2541 2435	3353 3247	4436 4330	5951 5845
150	450.00	211b	106 0	338 231	605 499	918 811	1287 1180	1730 1623	2271 2165	2947 2841	3817 3711	4977 4871	6601 6495

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 3.A Estimated resource use and costs for field operations, per acre
Cabbage, spring, hand harvest
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Fert 13-13-13	cwt											8.0000	21.21	169.68	169.68
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Feb	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Disk Bed	2-Row	2WD 75 hp	0.284	1.00	Feb	2.67	1.81	0.24	0.90	0.28	3.57				9.19
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											2.0000	3.40	6.80	6.80
Plntr/H2O Wheel	2-Row	2WD 75 hp	1.473	1.00	Feb	13.85	9.39	5.36	8.28	8.83	91.19				128.07
PLANTING LABOR	hour									30.00	296.10				296.10
Cabbage Plants	thous											13.2000	22.17	292.64	292.64
Cultivate	4-Row	2WD 75 hp	0.155	3.00	Mar	4.37	2.97	0.98	2.49	0.46	5.84				16.65
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Mar	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Kocide 2000	lb											2.0000	6.90	13.80	13.80
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Mar	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											8.0000	6.20	49.60	49.60
Fert-Side Dresser	2R 6'	2WD 75 hp	0.423	1.00	Apr	3.97	2.70	2.76	10.49	0.42	5.31				25.23
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											8.0000	6.20	49.60	49.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Avaunt 30 WDG	oz											3.0000	6.53	19.59	19.59
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Avaunt 30 WDG	oz											3.0000	6.53	19.59	19.59
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.85	0.57	0.05	0.08	0.18	2.02				3.57
Harv.Labor S.Cabbage	box			1.00	Jun							600.0000	1.61	966.00	966.00
Grd & Pack S.Cabbage	box			1.00	Jun							600.0000	1.67	1002.00	1002.00
Box Cabbage	each											600.0000	2.45	1470.00	1470.00
Marketing Fee	box			1.00	Jun							600.0000	1.00	600.00	600.00
CoolingBox S.Cabbage	box			1.00	Jun							600.0000	0.46	276.00	276.00
TOTALS						45.63	30.97	60.48	109.71	42.50	432.53			5007.28	5686.60
INTEREST ON OPERATING CAPITAL															36.08
UNALLOCATED LABOR															12.21
TOTAL SPECIFIED COST															5734.89

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 3.B Estimated costs per acre
Cabbage, spring, hand harvest
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	8.0000	169.68	_____
Amm Nitrate (34%)	cwt	24.00	2.0000	48.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	4.43	1.5000	6.65	_____
Kocide 2000	lb	6.90	2.0000	13.80	_____
HERBICIDE					
Treflan 4D	pt	3.40	2.0000	6.80	_____
INSECTICIDE					
Radiant 1SC	oz	6.20	16.0000	99.20	_____
Avaunt 30 WDG	oz	6.53	6.0000	39.18	_____
SEED/PLANTS					
Cabbage Plants	thous	22.17	13.2000	292.64	_____
OTHER					
Harv.Labor S.Cabbage	box	1.61	600.0000	966.00	_____
Grd & Pack S.Cabbage	box	1.67	600.0000	1002.00	_____
Box Cabbage	each	2.45	600.0000	1470.00	_____
Marketing Fee	box	1.00	600.0000	600.00	_____
CoolingBox S.Cabbage	box	0.46	600.0000	276.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	4.8538	60.92	_____
PLANTING LABOR					
Special Labor	hour	9.87	30.0000	296.10	_____
HAND LABOR					
Implements	hour	9.87	7.6498	75.51	_____
UNALLOCATED LABOR	hour	12.57	0.9707	12.21	_____
DIESEL FUEL					
Tractors	gal	2.15	18.7377	40.31	_____
REPAIR & MAINTENANCE					
Implements	acre	60.48	1.0000	60.48	_____
Tractors	acre	5.32	1.0000	5.32	_____
INTEREST ON OP. CAP.	acre	36.08	1.0000	36.08	_____
TOTAL DIRECT EXPENSES				5594.21	_____
FIXED EXPENSES					
Implements	acre	109.71	1.0000	109.71	_____
Tractors	acre	30.97	1.0000	30.97	_____
TOTAL FIXED EXPENSES				140.68	_____
TOTAL SPECIFIED EXPENSES				5734.89	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 3.C Estimated monthly income and expense flows per acre
 Cabbage, spring, hand harvest
 Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	169.68	24.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	20.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	49.60	88.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	292.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	4314.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	406.73	14.59	10.07	11.10	2.25	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	20.38	7.51	5.55	6.12	0.75	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	9.26	12.61	13.36	30.42	0.15	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.38	16.61	1.15	1.12	1.00	15.82	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.71	922.10	80.31	103.70	137.42	4332.97	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.71	-922.10	-80.31	-103.70	-137.42	-4332.97	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.71	-939.81	-1020.12	-1123.82	-1261.24	-5594.21	-5594.21	-5594.21	-5594.21	-5594.21	-5594.21	-5594.21

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 3.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
Cabbage, spring, hand harvest
Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Cabbage			7.19	7.52	7.91	8.37	8.91	9.55	10.34	11.33	12.60	14.29	16.65
PERCENT	YIELD	UNIT	-----dollars-----										
50	300.00	50lb	-2698 -2839	-2597 -2738	-2480 -2621	-2344 -2484	-2182 -2323	-1989 -2129	-1752 -1893	-1456 -1597	-1076 -1217	-569 -709	140 0
60	360.00	50lb	-2415 -2555	-2293 -2434	-2152 -2293	-1989 -2129	-1795 -1936	-1563 -1703	-1279 -1419	-924 -1064	-467 -608	140 0	992 851
70	420.00	50lb	-2131 -2271	-1989 -2129	-1825 -1965	-1634 -1774	-1408 -1548	-1137 -1277	-805 -946	-391 -532	140 0	850 709	1844 1703
80	480.00	50lb	-1847 -1987	-1684 -1825	-1497 -1638	-1279 -1419	-1021 -1161	-711 -851	-332 -473	140 0	749 608	1560 1419	2696 2555
90	540.00	50lb	-1563 -1703	-1380 -1521	-1169 -1310	-924 -1064	-633 -774	-285 -425	140 0	673 532	1357 1217	2270 2129	3548 3407
100	600.00	50lb	-1279 -1419	-1076 -1217	-842 -982	-569 -709	-246 -387	140 0	613 473	1205 1064	1966 1825	2980 2839	4400 4259
110	660.00	50lb	-995 -1135	-772 -912	-514 -655	-214 -354	140 0	566 425	1087 946	1737 1597	2574 2434	3690 3549	5252 5111
120	720.00	50lb	-711 -851	-467 -608	-186 -327	140 0	527 387	992 851	1560 1419	2270 2129	3183 3042	4400 4259	6103 5963
130	780.00	50lb	-427 -567	-163 -304	140 0	495 354	915 774	1418 1277	2033 1893	2802 2662	3791 3651	5110 4969	6955 6815
140	840.00	50lb	-143 -283	140 0	468 327	850 709	1302 1161	1844 1703	2507 2366	3335 3194	4400 4259	5820 5679	7807 7667
150	900.00	50lb	140 0	444 304	795 655	1205 1064	1689 1548	2270 2129	2980 2839	3867 3727	5008 4868	6529 6389	8659 8519

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 4.A Estimated resource use and costs for field operations, per acre
 Cucumbers, slicers, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Mar							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Mar	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Mar	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Fert 13-13-13	cwt											6.0000	21.21	127.26	127.26
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Apr	1.94	1.31	0.85	1.45	0.30	3.61				9.16
Admire Pro	oz											8.0000	2.95	23.60	23.60
BS,Lay/Tape/Cucumber	Bed 4'cntr	2WD 75 hp	1.617	1.00	Apr	15.20	10.31	2.88	7.83	1.61	20.30				56.52
Plastic Mulch	roll											2.2000	166.00	365.20	365.20
Drip Tape	roll											1.5000	182.50	273.75	273.75
Plntr/H2O Cucumber	1R 4'cntr	2WD 75 hp	2.578	1.00	Apr	24.23	16.43	2.39	3.69	10.31	108.70				155.44
Cucumber - Hybrid	lb											3.0000	236.00	708.00	708.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											50.0000	0.38	19.00	19.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.59	0.40	0.17	0.20	0.09	1.10				2.46
Sandea	oz											0.5000	46.25	23.13	23.13
Select MAX	oz											6.0000	0.77	4.62	4.62
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											50.0000	0.38	19.00	19.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Mustang Max	oz											4.0000	1.60	6.40	6.40
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											50.0000	0.38	19.00	19.00
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											3.0000	4.43	13.29	13.29
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.85	0.57	0.05	0.08	0.18	2.02				3.57

(continued)

Table 4.A Estimated resource use and costs for field operations, per acre
 Cucumbers, slicers, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
HARVEST LABOR	hour			1.00	Jun					120.00	1184.40				1184.40
5-Gal Bucket	each											200.0000	3.95	790.00	790.00
Labor (Packing)	each											300.0000	0.85	255.00	255.00
Boxes-Waxed	each											300.0000	1.60	480.00	480.00
Plastic Clean Up				1.00	Jun										
Mulch Lifter	1-Row	2WD 75 hp	0.589			5.54	3.76	0.15	2.48	0.58	7.40				19.33
Labor Clean up	acre											1.0000	148.00	148.00	148.00
Irrigation Setup	acre				Apr							1.0000			329.33
TOTALS						64.63	43.83	56.71	99.76	142.83	1428.21			3941.94	5964.41
INTEREST ON OPERATING CAPITAL															39.03
UNALLOCATED LABOR															17.28
TOTAL SPECIFIED COST															6020.72

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 4.B Estimated costs per acre
 Cucumbers, slicers, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	6.0000	127.26	_____
Calcium Nitrate	lb	0.38	200.0000	76.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	4.43	6.0000	26.58	_____
HERBICIDE					
Sandea	oz	46.25	0.5000	23.13	_____
Select MAX	oz	0.77	6.0000	4.62	_____
INSECTICIDE					
Admire Pro	oz	2.95	8.0000	23.60	_____
Mustang Max	oz	1.60	12.0000	19.20	_____
SEED/PLANTS					
Cucumber - Hybrid	lb	236.00	3.0000	708.00	_____
OTHER					
Plastic Mulch	roll	166.00	2.2000	365.20	_____
5-Gal Bucket	each	3.95	200.0000	790.00	_____
Labor (Packing)	each	0.85	300.0000	255.00	_____
Boxes-Waxed	each	1.60	300.0000	480.00	_____
Labor Clean up	acre	148.00	1.0000	148.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	1.5000	273.75	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	6.8745	86.29	_____
HARVEST LABOR					
Special Labor	hour	9.87	120.0000	1184.40	_____
HAND LABOR					
Implements	hour	9.87	7.9588	78.56	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	8.0000	78.96	_____
UNALLOCATED LABOR	hour	12.56	1.3749	17.28	_____
DIESEL FUEL					
Tractors	gal	2.15	26.5383	57.08	_____
REPAIR & MAINTENANCE					
Implements	acre	56.71	1.0000	56.71	_____
Tractors	acre	7.55	1.0000	7.55	_____
INTEREST ON OP. CAP.	acre	39.03	1.0000	39.03	_____
TOTAL DIRECT EXPENSES				5547.80	_____
FIXED EXPENSES					
Implements	acre	99.76	1.0000	99.76	_____
Tractors	acre	43.83	1.0000	43.83	_____
Irrigation Setup	acre	329.33	1.0000	329.33	_____
TOTAL FIXED EXPENSES				472.92	_____
TOTAL SPECIFIED EXPENSES				6020.72	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 4.C Estimated monthly income and expense flows per acre
 Cucumbers, slicers, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	144.59	19.00	38.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	6.65	6.65	13.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	27.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	30.00	6.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	708.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	365.20	0.00	1673.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	878.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.58	172.06	43.18	1222.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.18	41.14	2.04	9.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.42	31.47	10.14	21.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.31	25.07	0.78	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	160.08	2304.35	107.19	2976.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-160.08	-2304.35	-107.19	-2976.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-160.08	-2464.43	-2571.62	-5547.80	-5547.80	-5547.80	-5547.80	-5547.80	-5547.80	-5547.80	-5547.80	-5547.80

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 4.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Cucumbers, slicers, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Cucumbers			14.19	15.03	16.00	17.13	18.46	20.06	22.02	24.47	27.61	31.80	37.67
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	551b	-3049 -3522	-2923 -3396	-2778 -3251	-2608 -3081	-2408 -2881	-2168 -2641	-1875 -2348	-1508 -1981	-1036 -1509	-407 -880	472 0
60	180.00	551b	-2696 -3169	-2545 -3018	-2371 -2844	-2168 -2641	-1928 -2401	-1640 -2113	-1288 -1761	-847 -1320	-281 -754	472 0	1529 1056
70	210.00	551b	-2344 -2817	-2168 -2641	-1965 -2438	-1728 -2201	-1448 -1921	-1111 -1584	-701 -1174	-187 -660	472 0	1353 880	2586 2113
80	240.00	551b	-1992 -2465	-1791 -2264	-1559 -2031	-1288 -1761	-967 -1440	-583 -1056	-114 -587	472 0	1227 754	2233 1761	3642 3169
90	270.00	551b	-1640 -2113	-1413 -1886	-1152 -1625	-847 -1320	-487 -960	-55 -528	472 0	1133 660	1982 1509	3114 2641	4699 4226
100	300.00	551b	-1288 -1761	-1036 -1509	-746 -1219	-407 -880	-7 -480	472 0	1059 587	1793 1320	2737 2264	3994 3522	5755 5283
110	330.00	551b	-935 -1408	-659 -1132	-339 -812	32 -440	472 0	1001 528	1646 1174	2454 1981	3491 3018	4875 4402	6812 6339
120	360.00	551b	-583 -1056	-281 -754	66 -406	472 0	953 480	1529 1056	2233 1761	3114 2641	4246 3773	5755 5283	7869 7396
130	390.00	551b	-231 -704	95 -377	472 0	913 440	1433 960	2057 1584	2820 2348	3774 3301	5001 4528	6636 6163	8925 8452
140	420.00	551b	120 -352	472 0	879 406	1353 880	1913 1440	2586 2113	3407 2935	4435 3962	5755 5283	7516 7044	9982 9509
150	450.00	551b	472 0	850 377	1285 812	1793 1320	2394 1921	3114 2641	3994 3522	5095 4622	6510 6037	8397 7924	11038 10566

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 5.A Estimated resource use and costs for field operations, per acre
Greens (turnip, mustard, collards), fresh market
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Aug	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Aug	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Aug	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Fert 13-13-13	cwt											6.0000	21.21	127.26	127.26
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Aug	1.94	1.31	0.85	1.45	0.30	3.61				9.16
Treflan 4D	pt											1.5000	3.40	5.10	5.10
Cultipacker	12'	2WD 75 hp	0.124	1.00	Aug	1.17	0.79	0.12	0.16	0.12	1.56				3.80
Plntr - Vacuum+Ins	2R 30-40	2WD 75 hp	0.396	1.00	Sep	3.73	2.53	8.92	13.55	0.39	4.98				33.71
Greens - Hybrid	lb											3.3000	152.00	501.60	501.60
Admire Pro	oz											8.0000	2.95	23.60	23.60
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Sep	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Quadris	oz											15.4000	2.86	44.04	44.04
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Avaunt 30 WDG	oz											3.0000	6.53	19.59	19.59
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											5.0000	6.20	31.00	31.00
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Oct	0.85	0.57	0.05	0.08	0.18	2.02				3.57
Bins/Stacking 25bu	each											20.0000	20.30	406.00	406.00
HARVEST & PACK LABOR	hour			1.00	Oct					175.00	1727.25				1727.25
Boxes-Waxed	each			1.00	Oct							500.0000	1.60	800.00	800.00
Cooling Box - Greens box												500.0000	0.46	230.00	230.00
TOTALS						22.00	14.92	40.95	67.58	177.53	1758.53			2239.87	4143.85
INTEREST ON OPERATING CAPITAL															19.15
UNALLOCATED LABOR															5.89
TOTAL SPECIFIED COST															4168.89

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 5.B Estimated costs per acre
Greens (turnip, mustard, collards), fresh market
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	6.0000	127.26	_____
Amm Nitrate (34%)	cwt	24.00	1.0000	24.00	_____
FUNGICIDE					
Kocide 2000	lb	6.90	1.5000	10.35	_____
Quadris	oz	2.86	15.4000	44.04	_____
HERBICIDE					
Treflan 4D	pt	3.40	1.5000	5.10	_____
INSECTICIDE					
Admire Pro	oz	2.95	8.0000	23.60	_____
Avaunt 30 WDG	oz	6.53	3.0000	19.59	_____
Radiant 1SC	oz	6.20	5.0000	31.00	_____
SEED/PLANTS					
Greens - Hybrid	lb	152.00	3.3000	501.60	_____
OTHER					
Bins/Stacking 25bu	each	20.30	20.0000	406.00	_____
Boxes-Waxed	each	1.60	500.0000	800.00	_____
Cooling Box - Greens	box	0.46	500.0000	230.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	2.3392	29.37	_____
HAND LABOR					
Implements	hour	9.87	0.1931	1.91	_____
HARVEST & PACK LABOR					
Special Labor	hour	9.87	175.0000	1727.25	_____
UNALLOCATED LABOR	hour	12.58	0.4678	5.89	_____
DIESEL FUEL					
Tractors	gal	2.15	9.0304	19.42	_____
REPAIR & MAINTENANCE					
Implements	acre	40.95	1.0000	40.95	_____
Tractors	acre	2.58	1.0000	2.58	_____
INTEREST ON OP. CAP.	acre	19.15	1.0000	19.15	_____
TOTAL DIRECT EXPENSES				4086.39	_____
FIXED EXPENSES					
Implements	acre	67.58	1.0000	67.58	_____
Tractors	acre	14.92	1.0000	14.92	_____
TOTAL FIXED EXPENSES				82.50	_____
TOTAL SPECIFIED EXPENSES				4168.89	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 5.C Estimated monthly income and expense flows per acre
Greens (turnip, mustard, collards), fresh market
Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	0.00	0.00	0.00	0.00	0.00	0.00	127.26	24.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.39	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.19	31.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	501.60	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1436.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.57	14.65	1733.20	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.56	8.07	2.79	0.00	0.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	29.82	10.29	0.00	0.00
INTEREST ON OP. CAP.	0.64	0.00	0.00	0.00	0.00	0.00	0.00	1.77	4.97	11.77	0.00	0.00
TOTAL DIRECT EXPENSES	17.97	0.00	0.00	0.00	0.00	0.00	0.00	162.68	680.69	3225.05	0.00	0.00
NET INCOME	-17.97	0.00	0.00	0.00	0.00	0.00	0.00	-162.68	-680.69	-3225.05	0.00	0.00
NET INCOME TO DATE	-17.97	-17.97	-17.97	-17.97	-17.97	-17.97	-17.97	-180.65	-861.34	-4086.39	-4086.39	-4086.39

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 5.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Greens (turnip, mustard, collards), fresh market
 Mississippi, 2015

Greens (25lb)			-----BREAKEVEN PRICE-----										
			6.09	6.41	6.78	7.21	7.72	8.33	9.08	10.02	11.22	12.82	15.06
PERCENT	YIELD	UNIT	-----dollars-----										
50	250.00	2doz	-2161 -2243	-2081 -2163	-1988 -2071	-1880 -1963	-1753 -1835	-1600 -1682	-1413 -1495	-1179 -1262	-879 -961	-478 -560	82 0
60	300.00	2doz	-1937 -2019	-1840 -1923	-1729 -1812	-1600 -1682	-1447 -1529	-1263 -1346	-1039 -1121	-758 -841	-398 -480	82 0	755 673
70	350.00	2doz	-1712 -1795	-1600 -1682	-1471 -1553	-1319 -1402	-1141 -1223	-927 -1009	-665 -747	-338 -420	82 0	643 560	1428 1346
80	400.00	2doz	-1488 -1570	-1360 -1442	-1212 -1294	-1039 -1121	-835 -917	-590 -673	-291 -373	82 0	563 480	1204 1121	2102 2019
90	450.00	2doz	-1263 -1346	-1119 -1202	-953 -1035	-758 -841	-529 -611	-254 -336	82 0	503 420	1044 961	1765 1682	2775 2692
100	500.00	2doz	-1039 -1121	-879 -961	-694 -776	-478 -560	-223 -305	82 0	456 373	923 841	1525 1442	2326 2243	3448 3365
110	550.00	2doz	-815 -897	-638 -721	-435 -517	-197 -280	82 0	419 336	830 747	1344 1262	2005 1923	2887 2804	4121 4039
120	600.00	2doz	-590 -673	-398 -480	-176 -258	82 0	388 305	755 673	1204 1121	1765 1682	2486 2404	3448 3365	4794 4712
130	650.00	2doz	-366 -448	-157 -240	82 0	362 280	694 611	1092 1009	1578 1495	2186 2103	2967 2885	4009 3926	5468 5385
140	700.00	2doz	-141 -224	82 0	341 258	643 560	1000 917	1428 1346	1952 1869	2606 2524	3448 3365	4570 4487	6141 6058
150	750.00	2doz	82 0	322 240	600 517	923 841	1306 1223	1765 1682	2326 2243	3027 2945	3929 3846	5131 5048	6814 6731

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 6.A Estimated resource use and costs for field operations, per acre
Lima/butter beans, hand harvest
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Jan	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Amm Nitrate (34%)	cwt											1.5000	24.00	36.00	36.00
Phosphorus(46% P205)	cwt											1.5600	24.50	38.22	38.22
Potash (60% K20)	cwt											1.2000	23.60	28.32	28.32
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											1.5000	3.40	5.10	5.10
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.73	2.53	7.69	11.68	0.39	4.98				30.61
Lima Bean - Hybrid	lb											30.0000	4.82	144.60	144.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
HARVEST LABOR	hour			1.00	Jun					136.00	1342.32				1342.32
5-Gal Bucket	each											40.0000	3.95	158.00	158.00
Sheller Lima Beans	each			1.00	Jun				5.54			0.0200			5.54
107/10 lb bg L/BBean	acre							0.24		9.00	88.83	1.0000			89.07
R.B.Convey LimaBeans	each			1.00	Jun				2.65			0.0200			2.65
Rot.PakTable L-Beans	each			1.00	Jun				2.42			0.0200			2.42
Application 1	acre							0.15		5.00	49.35	1.0000			49.50
Bag Sealer LimaBeans	each			1.00	Jun				0.39			0.0200			0.39
Application 1	acre							0.30		0.12	1.18	1.0000			1.48
TOTALS						19.56	13.28	40.04	77.95	152.46	1510.41			474.72	2135.96
INTEREST ON OPERATING CAPITAL															10.86
UNALLOCATED LABOR															5.24
TOTAL SPECIFIED COST															2152.06

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 6.B Estimated costs per acre
Lima/butter beans, hand harvest
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Amm Nitrate (34%)	cwt	24.00	2.5000	60.00	_____
Phosphorus(46% P205)	cwt	24.50	1.5600	38.22	_____
Potash (60% K20)	cwt	23.60	1.2000	28.32	_____
FUNGICIDE					
Kocide 2000	lb	6.90	1.5000	10.35	_____
HERBICIDE					
Treflan 4D	pt	3.40	1.5000	5.10	_____
INSECTICIDE					
Mustang Max	oz	1.60	8.0000	12.80	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	4.82	30.0000	144.60	_____
OTHER					
5-Gal Bucket	each	3.95	40.0000	158.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	2.0805	26.11	_____
HARVEST LABOR					
Special Labor	hour	9.87	136.0000	1342.32	_____
HAND LABOR					
Implements	hour	9.87	0.2643	2.62	_____
GRD LABORLIMA BEANS					
Bag Sealer LimaBeans	hour	9.87	0.1200	1.18	_____
Rot.PakTable L-Beans	hour	9.87	5.0000	49.35	_____
Sheller Lima Beans	hour	9.87	9.0000	88.83	_____
UNALLOCATED LABOR	hour	12.59	0.4161	5.24	_____
DIESEL FUEL					
Tractors	gal	2.15	8.0318	17.28	_____
REPAIR & MAINTENANCE					
Implements	acre	39.35	1.0000	39.35	_____
Tractors	acre	2.28	1.0000	2.28	_____
Bag Sealer LimaBeans	acre	0.29	1.0000	0.30	_____
Rot.PakTable L-Beans	acre	0.15	1.0000	0.15	_____
Sheller Lima Beans	acre	0.23	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____
TOTAL DIRECT EXPENSES				2060.83	_____
FIXED EXPENSES					
Implements	acre	66.95	1.0000	66.95	_____
Tractors	acre	13.28	1.0000	13.28	_____
Bag Sealer LimaBeans	each	19.62	0.0200	0.39	_____
R.B.Convey LimaBeans	each	132.30	0.0200	2.65	_____
Rot.PakTable L-Beans	each	121.02	0.0200	2.42	_____
Sheller Lima Beans	each	277.07	0.0200	5.54	_____
TOTAL FIXED EXPENSES				91.23	_____
TOTAL SPECIFIED EXPENSES				2152.06	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 6.C Estimated monthly income and expense flows per acre
Lima/butter beans, hand harvest
Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	0.00	102.54	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	144.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	158.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	0.00	5.81	9.86	14.98	1481.68	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	0.00	2.82	4.90	7.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.59	0.00	1.20	8.44	31.40	0.69	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.51	0.00	1.66	1.90	0.77	6.02	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.58	0.00	114.03	174.80	102.03	1646.39	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.58	0.00	-114.03	-174.80	-102.03	-1646.39	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.58	-23.58	-137.61	-312.41	-414.44	-2060.83	-2060.83	-2060.83	-2060.83	-2060.83	-2060.83	-2060.83

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 6.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Lima/butter beans, hand harvest
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			13.40	14.36	15.47	16.76	18.28	20.11	22.34	25.14	28.73	33.52	40.22
PERCENT	YIELD	UNIT	-----dollars-----										
50	53.50	101b	-1343	-1292	-1233	-1164	-1082	-984	-865	-715	-523	-267	91
			-1434	-1383	-1324	-1255	-1173	-1076	-956	-807	-614	-358	0
60	64.20	101b	-1200	-1138	-1067	-984	-886	-769	-626	-446	-216	91	521
			-1291	-1229	-1158	-1076	-978	-860	-717	-538	-307	0	430
70	74.90	101b	-1056	-984	-902	-805	-691	-554	-387	-177	91	449	952
			-1147	-1076	-993	-896	-782	-645	-478	-269	0	358	860
80	85.60	101b	-913	-831	-736	-626	-495	-339	-147	91	398	808	1382
			-1004	-922	-827	-717	-586	-430	-239	0	307	717	1291
90	96.30	101b	-769	-677	-570	-446	-300	-123	91	360	706	1167	1812
			-860	-768	-662	-538	-391	-215	0	269	614	1076	1721
100	107.00	101b	-626	-523	-405	-267	-104	91	330	629	1013	1525	2243
			-717	-614	-496	-358	-195	0	239	538	922	1434	2152
110	117.70	101b	-482	-369	-239	-88	91	306	569	898	1320	1884	2673
			-573	-461	-331	-179	0	215	478	807	1229	1793	2582
120	128.40	101b	-339	-216	-74	91	286	521	808	1167	1628	2243	3104
			-430	-307	-165	0	195	430	717	1076	1537	2152	3012
130	139.10	101b	-195	-62	91	270	482	736	1047	1436	1935	2601	3534
			-286	-153	0	179	391	645	956	1345	1844	2510	3443
140	149.80	101b	-52	91	256	449	678	952	1286	1705	2243	2960	3964
			-143	0	165	358	586	860	1195	1614	2152	2869	3873
150	160.50	101b	91	244	422	629	873	1167	1525	1974	2550	3319	4395
			0	153	331	538	782	1076	1434	1883	2459	3228	4304

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 7.A Estimated resource use and costs for field operations, per acre
Lima/butter beans, mechanical harvest
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Jan	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.87	1.26	0.43	0.88	0.19	2.49				6.93
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Amm Nitrate (34%)	cwt											1.5000	24.00	36.00	36.00
Phosphorus(46% P205)	cwt											1.5600	24.50	38.22	38.22
Potash (60% K20)	cwt											1.2000	23.60	28.32	28.32
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											1.5000	3.40	5.10	5.10
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.73	2.53	7.69	11.68	0.39	4.98				30.61
Lima Bean - Hybrid	lb											30.0000	4.82	144.60	144.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Kocide 2000	lb											1.5000	6.90	10.35	10.35
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	Jun	33.56	22.77	53.07	34.12	10.71	115.32				258.84
Trailer-Lima/B. Bean	16'	2WD 75 hp	3.571	1.00	Jun	33.56	22.77	2.21	3.56	7.14	80.07				142.17
LABOR BEAN TRAILER	hour									3.58	35.33				35.33
Sheller Lima Beans	each			1.00	Jun				5.54			0.0200			5.54
65/10 lb bg L/BBean	acre							0.24		9.00	88.83	1.0000			89.07
R.B.Convey LimaBeans	each			1.00	Jun				2.65			0.0200			2.65
Rot.PakTable L-Beans	each			1.00	Jun				2.42			0.0200			2.42
Application 1	acre							0.15		5.00	49.35	1.0000			49.50
Bag Sealer LimaBeans	each			1.00	Jun				0.39			0.0200			0.39
Application 1	acre							0.30		0.12	1.18	1.0000			1.48
TOTALS						86.68	58.82	95.32	115.63	37.90	398.81			316.72	1071.98
INTEREST ON OPERATING CAPITAL															6.72
UNALLOCATED LABOR															23.16
TOTAL SPECIFIED COST															1101.86

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 7.B Estimated costs per acre
Lima/butter beans, mechanical harvest
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Amm Nitrate (34%)	cwt	24.00	2.5000	60.00	_____
Phosphorus (46% P205)	cwt	24.50	1.5600	38.22	_____
Potash (60% K20)	cwt	23.60	1.2000	28.32	_____
FUNGICIDE					
Kocide 2000	lb	6.90	1.5000	10.35	_____
HERBICIDE					
Treflan 4D	pt	3.40	1.5000	5.10	_____
INSECTICIDE					
Mustang Max	oz	1.60	8.0000	12.80	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	4.82	30.0000	144.60	_____
OPERATOR LABOR					
Tractors	hour	12.55	9.2234	115.75	_____
HAND LABOR					
Implements	hour	9.87	10.9786	108.37	_____
LABOR BEAN TRAILER					
Special Labor	hour	9.87	3.5800	35.33	_____
GRD LABORLIMA BEANS					
Bag Sealer LimaBeans	hour	9.87	0.1200	1.18	_____
Rot.PakTable L-Beans	hour	9.87	5.0000	49.35	_____
Sheller Lima Beans	hour	9.87	9.0000	88.83	_____
UNALLOCATED LABOR	hour	12.55	1.8446	23.16	_____
DIESEL FUEL					
Tractors	gal	2.15	35.6061	76.56	_____
REPAIR & MAINTENANCE					
Implements	acre	94.63	1.0000	94.63	_____
Tractors	acre	10.12	1.0000	10.12	_____
Bag Sealer LimaBeans	acre	0.29	1.0000	0.30	_____
Rot.PakTable L-Beans	acre	0.15	1.0000	0.15	_____
Sheller Lima Beans	acre	0.23	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	6.72	1.0000	6.72	_____
TOTAL DIRECT EXPENSES				927.41	_____
FIXED EXPENSES					
Implements	acre	104.63	1.0000	104.63	_____
Tractors	acre	58.82	1.0000	58.82	_____
Bag Sealer LimaBeans	each	19.62	0.0200	0.39	_____
R.B.Convey LimaBeans	each	132.30	0.0200	2.65	_____
Rot.PakTable L-Beans	each	121.02	0.0200	2.42	_____
Sheller Lima Beans	each	277.07	0.0200	5.54	_____
TOTAL FIXED EXPENSES				174.45	_____
TOTAL SPECIFIED EXPENSES				1101.86	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 7.C Estimated monthly income and expense flows per acre
Lima/butter beans, mechanical harvest
Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	0.00	102.54	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	144.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	0.00	5.81	9.86	14.98	388.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	0.00	2.82	4.90	7.73	59.28	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.59	0.00	1.20	8.44	31.40	63.81	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.51	0.00	1.66	1.90	0.77	1.88	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.58	0.00	114.03	174.80	102.03	512.97	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.58	0.00	-114.03	-174.80	-102.03	-512.97	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.58	-23.58	-137.61	-312.41	-414.44	-927.41	-927.41	-927.41	-927.41	-927.41	-927.41	-927.41

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 7.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Lima/butter beans, mechanical harvest
 Mississippi, 2015

Lima/Butter Beans			-----BREAKEVEN PRICE-----										
			11.30	12.10	13.03	14.12	15.41	16.95	18.83	21.18	24.21	28.25	33.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	101b	-560 -734	-533 -708	-503 -678	-468 -642	-426 -601	-376 -550	-315 -489	-238 -413	-140 -314	-9 -183	174 0
60	39.00	101b	-486 -661	-455 -629	-418 -593	-376 -550	-326 -500	-266 -440	-192 -367	-101 -275	17 -157	174 0	394 220
70	45.50	101b	-413 -587	-376 -550	-334 -508	-284 -459	-226 -400	-156 -330	-70 -244	36 -137	174 0	358 183	615 440
80	52.00	101b	-339 -514	-297 -472	-249 -423	-192 -367	-126 -300	-45 -220	52 -122	174 0	331 157	541 367	835 661
90	58.50	101b	-266 -440	-219 -393	-164 -339	-101 -275	-25 -200	64 -110	174 0	312 137	489 314	725 550	1055 881
100	65.00	101b	-192 -367	-140 -314	-79 -254	-9 -183	74 -100	174 0	296 122	449 275	646 472	909 734	1276 1101
110	71.50	101b	-119 -293	-61 -236	4 -169	82 -91	174 0	284 110	419 244	587 413	804 629	1092 918	1496 1322
120	78.00	101b	-45 -220	17 -157	89 -84	174 0	274 100	394 220	541 367	725 550	961 787	1276 1101	1717 1542
130	84.50	101b	27 -146	95 -78	174 0	266 91	374 200	505 330	664 489	863 688	1118 944	1459 1285	1937 1762
140	91.00	101b	100 -73	174 0	259 84	358 183	474 300	615 440	786 612	1000 826	1276 1101	1643 1469	2157 1983
150	97.50	101b	174 0	253 78	343 169	449 275	575 400	725 550	909 734	1138 964	1433 1259	1827 1652	2378 2203

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 8.A Estimated resource use and costs for field operations, per acre
Okra, fresh market
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Mar							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Mar	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Apr	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Amm Nitrate (34%)	cwt											0.7000	24.00	16.80	16.80
Phosphorus(46% P205)	cwt											1.5600	24.50	38.22	38.22
Potash (60% K20)	cwt											1.2000	23.60	28.32	28.32
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											1.5000	3.40	5.10	5.10
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.73	2.53	7.69	11.68	0.39	4.98				30.61
Okra - Hybrid	lb											8.8000	205.00	1804.00	1804.00
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Cultivate	4-Row	2WD 75 hp	0.155	2.00	May	2.91	1.98	0.65	1.66	0.31	3.89				11.09
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Provado 1.6	oz											7.6000	1.03	7.83	7.83
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.82	1.24	0.77	3.18	0.29	3.39				10.40
Amm Nitrate (34%)	cwt											1.0000	24.00	24.00	24.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	6.92	4.70	29.62	49.34	0.73	9.24				99.82
Mustang Max	oz											12.0000	1.60	19.20	19.20
Trailer - Vegetables	16'	2WD 75 hp	0.090	12.00	Jun	10.14	6.88	0.60	0.96	2.16	24.21				42.79
HARVEST LABOR	hour			1.00	Jun					300.00	2961.00				2961.00
5-Gal Bucket	each											200.0000	3.95	790.00	790.00
GRADE & PACK LABOR	hour			1.00	Jun					30.00	296.10				296.10
Boxes-Waxed	each											400.0000	1.60	640.00	640.00
TOTALS						40.90	27.77	61.57	106.52	335.79	3325.97			3414.80	6977.53
INTEREST ON OPERATING CAPITAL															40.09
UNALLOCATED LABOR															10.94
TOTAL SPECIFIED COST															7028.56

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 8.B Estimated costs per acre
Okra, fresh market
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Amm Nitrate (34%)	cwt	24.00	2.7000	64.80	_____
Phosphorus (46% P205)	cwt	24.50	1.5600	38.22	_____
Potash (60% K20)	cwt	23.60	1.2000	28.32	_____
HERBICIDE					
Treflan 4D	pt	3.40	1.5000	5.10	_____
INSECTICIDE					
Provado 1.6	oz	1.03	7.6000	7.83	_____
Mustang Max	oz	1.60	12.0000	19.20	_____
SEED/PLANTS					
Okra - Hybrid	lb	205.00	8.8000	1804.00	_____
OTHER					
5-Gal Bucket	each	3.95	200.0000	790.00	_____
Boxes-Waxed	each	1.60	400.0000	640.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	4.3539	54.63	_____
HARVEST LABOR					
Special Labor	hour	9.87	300.0000	2961.00	_____
GRADE & PACK LABOR					
Special Labor	hour	9.87	30.0000	296.10	_____
HAND LABOR					
Implements	hour	9.87	1.4412	14.24	_____
UNALLOCATED LABOR	hour	12.56	0.8707	10.94	_____
DIESEL FUEL					
Tractors	gal	2.15	16.8080	36.13	_____
REPAIR & MAINTENANCE					
Implements	acre	61.57	1.0000	61.57	_____
Tractors	acre	4.77	1.0000	4.77	_____
INTEREST ON OP. CAP.	acre	40.09	1.0000	40.09	_____
TOTAL DIRECT EXPENSES				6894.27	_____
FIXED EXPENSES					
Implements	acre	106.52	1.0000	106.52	_____
Tractors	acre	27.77	1.0000	27.77	_____
TOTAL FIXED EXPENSES				134.29	_____
TOTAL SPECIFIED EXPENSES				7028.56	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 8.C Estimated monthly income and expense flows per acre
Okra, fresh market
Mississippi, 2015

ITEM	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	107.34	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	7.83	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	1804.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	1430.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	9.30	16.56	15.94	3295.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.12	7.68	8.26	15.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.90	9.97	22.26	32.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.49	21.44	0.58	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	34.14	1972.09	78.87	4809.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-34.14	-1972.09	-78.87	-4809.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-34.14	-2006.23	-2085.10	-6894.27	-6894.27	-6894.27	-6894.27	-6894.27	-6894.27	-6894.27	-6894.27	-6894.27

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 8.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Okra, fresh market
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Okra (US Fancy)			12.24	13.00	13.88	14.91	16.11	17.57	19.34	21.56	24.41	28.21	33.53
PERCENT	YIELD	UNIT	-----dollars-----										
50	200.00	301b	-4123 -4257	-3971 -4105	-3795 -3929	-3590 -3725	-3349 -3483	-3058 -3193	-2704 -2838	-2260 -2394	-1690 -1824	-930 -1064	134 0
60	240.00	301b	-3697 -3831	-3514 -3649	-3304 -3438	-3058 -3193	-2768 -2902	-2420 -2554	-1994 -2128	-1462 -1596	-778 -912	134 0	1411 1277
70	280.00	301b	-3271 -3405	-3058 -3193	-2813 -2947	-2526 -2660	-2187 -2322	-1781 -1915	-1284 -1419	-663 -798	134 0	1198 1064	2688 2554
80	320.00	301b	-2845 -2980	-2602 -2736	-2321 -2456	-1994 -2128	-1607 -1741	-1142 -1277	-575 -709	134 0	1046 912	2263 2128	3966 3831
90	360.00	301b	-2420 -2554	-2146 -2280	-1830 -1964	-1462 -1596	-1026 -1161	-504 -638	134 0	932 798	1958 1824	3327 3193	5243 5108
100	400.00	301b	-1994 -2128	-1690 -1824	-1339 -1473	-930 -1064	-446 -580	134 0	843 709	1730 1596	2871 2736	4391 4257	6520 6386
110	440.00	301b	-1568 -1702	-1234 -1368	-848 -982	-397 -532	134 0	772 638	1553 1419	2529 2394	3783 3649	5456 5321	7797 7663
120	480.00	301b	-1142 -1277	-778 -912	-356 -491	134 0	714 580	1411 1277	2263 2128	3327 3193	4695 4561	6520 6386	9074 8940
130	520.00	301b	-717 -851	-321 -456	134 0	666 532	1295 1161	2050 1915	2972 2838	4125 3991	5608 5473	7584 7450	10352 10217
140	560.00	301b	-291 -425	134 0	625 491	1198 1064	1875 1741	2688 2554	3682 3547	4923 4789	6520 6386	8649 8514	11629 11495
150	600.00	301b	134 0	590 456	1116 982	1730 1596	2456 2322	3327 3193	4391 4257	5722 5587	7432 7298	9713 9579	12906 12772

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 9.A Estimated resource use and costs for field operations, per acre
Pumpkin, freshmarket, irrigated
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	May							0.1633	35.00	5.72	5.72
Chisel Plow	7'	2WD 75 hp	0.220	1.00	May	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Jun	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Jun	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Fert 13-13-13	cwt											9.0000	21.21	190.89	190.89
BS, Lay/Tape/Pumpkin	Bed 8'cntr	2WD 75 hp	0.080	1.00	Jun	0.76	0.52	0.29	0.79	0.08	1.02				3.38
Plastic Mulch	roll											1.4000	166.00	232.40	232.40
Drip Tape	roll											0.9000	182.50	164.25	164.25
Plntr/H20/pnch/seed	1-Row	2WD 75 hp	2.578	1.00	Jul	24.23	16.43	4.90	7.57	5.15	57.81				110.94
Pumpkin Seed Hybrid	lb											1.5000	113.00	169.50	169.50
Irrigation				1.00	Jul										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Disk Harrow-Hvy Duty	5'	2WD 75 hp	0.412	0.50	Jul	1.94	1.31	0.11	0.22	0.20	2.59				6.17
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Mustang Max	oz											4.0000	1.60	6.40	6.40
Fertigate CAN03/KN03				1.00	Jul										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Quadris	oz											11.0000	2.86	31.46	31.46
Bravo Weather Stick	pt											2.0000	4.43	8.86	8.86
Fertigate CAN03/KN03				3.00	Aug										
FERTIGATION LABOR	hour									3.00	29.61				29.61
Calcium Nitrate	lb											75.0000	0.38	28.50	28.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											2.0000	4.43	8.86	8.86
Fertigate CAN03/KN03				1.00	Sep										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Fertigate CAN03/KN03				3.00	Sep										
FERTIGATION LABOR	hour									3.00	29.61				29.61
Calcium Nitrate	lb											75.0000	0.38	28.50	28.50

(continued)

Table 9.A Estimated resource use and costs for field operations, per acre
Pumpkin, freshmarket, irrigated
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
				OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
							-----dollars-----				dollars		-----dollars-----			
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	2.31	1.57	9.87	16.45	0.24	3.08					33.28
Brigade 2EC	oz											6.0000	0.98	5.88		5.88
Quadris	oz											11.0000	2.86	31.46		31.46
Fertigate CAN03/KN03				1.00	Oct											
FERTIGATION LABOR	hour									1.00	9.87					9.87
Calcium Nitrate	lb											25.0000	0.38	9.50		9.50
Trailer - Vegetables	16'	2WD 75 hp	0.090	3.00	Oct	2.54	1.72	0.15	0.24	0.54	6.05					10.70
HARVEST LABOR	hour									90.00	888.30					888.30
Pallet Crates-1350lb	each											123.0000	19.37	2382.51		2382.51
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Nov	5.54	3.76	0.15	2.48	0.58	7.40					19.33
LABOR MULCH CLEANUP	hour									15.00	148.05					148.05
Irrigation Setup	acre				Jul							1.0000				318.36
TOTALS						55.99	37.99	66.44	113.37	124.87	1248.49			3959.23		5799.87
INTEREST ON OPERATING CAPITAL																59.93
UNALLOCATED LABOR																14.97
TOTAL SPECIFIED COST																5874.77

Note: Cost of production estimates are based on 2014 input prices..

Fertilization decisions should be based on soil tests.

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

Table 9.B Estimated costs per acre
 Pumpkin, freshmarket, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.1633	5.72	_____
Fert 13-13-13	cwt	21.21	9.0000	190.89	_____
Calcium Nitrate	lb	0.38	275.0000	104.50	_____
FUNGICIDE					
Quadris	oz	2.86	22.0000	62.92	_____
Bravo Weather Stick	pt	4.43	4.0000	17.72	_____
INSECTICIDE					
Mustang Max	oz	1.60	8.0000	12.80	_____
Brigade 2EC	oz	0.98	12.0000	11.76	_____
SEED/PLANTS					
Pumpkin Seed Hybrid	lb	113.00	1.5000	169.50	_____
OTHER					
Plastic Mulch	roll	166.00	1.4000	232.40	_____
Pallet Crates-1350lb	each	19.37	123.0000	2382.51	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	0.9000	164.25	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	5.9557	74.76	_____
HARVEST LABOR					
Special Labor	hour	9.87	90.0000	888.30	_____
HAND LABOR					
Implements	hour	9.87	2.9186	28.81	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	11.0000	108.57	_____
LABOR MULCH CLEANUP					
Special Labor	hour	9.87	15.0000	148.05	_____
UNALLOCATED LABOR					
	hour	12.56	1.1911	14.97	_____
DIESEL FUEL					
Tractors	gal	2.15	22.9914	49.44	_____
REPAIR & MAINTENANCE					
Implements	acre	66.44	1.0000	66.44	_____
Tractors	acre	6.55	1.0000	6.55	_____
INTEREST ON OP. CAP.	acre	59.93	1.0000	59.93	_____
TOTAL DIRECT EXPENSES				5405.05	_____
FIXED EXPENSES					
Implements	acre	113.37	1.0000	113.37	_____
Tractors	acre	37.99	1.0000	37.99	_____
Irrigation Setup	acre	318.36	1.0000	318.36	_____
TOTAL FIXED EXPENSES				469.72	_____
TOTAL SPECIFIED EXPENSES				5874.77	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 9.C Estimated monthly income and expense flows per acre
Pumpkin, freshmarket, irrigated
8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

ITEM	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	5.72	190.89	28.50	28.50	38.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	49.18	31.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	12.80	0.00	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	169.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	232.40	0.00	0.00	0.00	2382.51	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	164.25	604.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	10.02	104.40	37.01	46.88	904.90	156.93	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	5.13	27.19	4.08	4.08	2.24	4.89	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.59	2.24	28.35	20.28	20.28	0.45	0.80	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.30	13.30	17.86	2.03	1.66	24.19	0.59	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	11.76	618.23	992.86	141.08	154.12	3323.79	163.21	0.00	0.00	0.00	0.00	0.00
NET INCOME	-11.76	-618.23	-992.86	-141.08	-154.12	-3323.79	-163.21	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-11.76	-629.99	-1622.85	-1763.93	-1918.05	-5241.84	-5405.05	-5405.05	-5405.05	-5405.05	-5405.05	-5405.05

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 9.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Pumpkin, freshmarket, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Pumpkin			0.09	0.10	0.11	0.11	0.13	0.14	0.15	0.17	0.20	0.23	0.28
PERCENT	YIELD	UNIT	-----dollars-----										
50	20500.00	lb	-3446 -3916	-3306 -3776	-3145 -3615	-2957 -3426	-2734 -3204	-2467 -2937	-2141 -2611	-1733 -2203	-1208 -1678	-509 -979	469 0
60	24600.00	lb	-3055 -3524	-2887 -3357	-2693 -3163	-2467 -2937	-2200 -2670	-1880 -2349	-1488 -1958	-998 -1468	-369 -839	469 0	1644 1174
70	28700.00	lb	-2663 -3133	-2467 -2937	-2241 -2711	-1978 -2447	-1666 -2136	-1292 -1762	-835 -1305	-264 -734	469 0	1448 979	2819 2349
80	32800.00	lb	-2271 -2741	-2048 -2517	-1789 -2259	-1488 -1958	-1132 -1602	-705 -1174	-183 -652	469 0	1308 839	2427 1958	3994 3524
90	36900.00	lb	-1880 -2349	-1628 -2098	-1337 -1807	-998 -1468	-598 -1068	-117 -587	469 0	1204 734	2148 1678	3407 2937	5169 4699
100	41000.00	lb	-1488 -1958	-1208 -1678	-885 -1355	-509 -979	-64 -534	469 0	1122 652	1938 1468	2987 2517	4386 3916	6344 5874
110	45100.00	lb	-1096 -1566	-789 -1258	-434 -903	-19 -489	469 0	1057 587	1775 1305	2672 2203	3826 3357	5365 4895	7519 7049
120	49200.00	lb	-705 -1174	-369 -839	17 -451	469 0	1003 534	1644 1174	2427 1958	3407 2937	4665 4196	6344 5874	8694 8224
130	53300.00	lb	-313 -783	50 -419	469 0	959 489	1537 1068	2232 1762	3080 2611	4141 3671	5505 5035	7323 6853	9869 9399
140	57400.00	lb	78 -391	469 0	921 451	1448 979	2071 1602	2819 2349	3733 3263	4875 4406	6344 5874	8302 7833	11044 10574
150	61500.00	lb	469 0	889 419	1373 903	1938 1468	2606 2136	3407 2937	4386 3916	5610 5140	7183 6714	9281 8812	12219 11749

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 10.A Estimated resource use and costs for field operations, per acre
 Snap beans, fresh market, hand harvest
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Lime (Spread)	ton			0.33	Feb							0.4950	35.00	17.33	17.33	
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17	
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.73	2.53	0.87	1.77	0.39	4.98				13.88	
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Feb	1.32	0.90	0.40	1.02	0.21	2.47				6.11	
Fert 13-13-13	cwt											6.0000	21.21	127.26	127.26	
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.82	1.24	0.10	0.26	0.29	3.39				6.81	
Treflan 4D	pt											2.0000	3.40	6.80	6.80	
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Mar	3.73	2.53	7.69	11.68	0.39	4.98				30.61	
Snap Beans - Hybrid	lb											70.0000	8.12	568.40	568.40	
Blocker 10G	lb											13.7500	1.50	20.63	20.63	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.62	3.13	19.75	32.89	0.49	6.16				66.55	
Mustang Max	oz											8.0000	1.60	12.80	12.80	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.62	3.13	19.75	32.89	0.49	6.16				66.55	
Kocide 2000	lb											3.0000	6.90	20.70	20.70	
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.77	3.18	0.29	3.39				10.40	
Amm Nitrate (34%)	cwt											0.7500	24.00	18.00	18.00	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.62	3.13	19.75	32.89	0.49	6.16				66.55	
Mustang Max	oz											8.0000	1.60	12.80	12.80	
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	May	0.85	0.57	0.05	0.08	0.18	2.02				3.57	
HARVEST LABOR	hour			1.00	May					150.00	1480.50				1480.50	
Bushel Box	each			1.00	May							200.0000	1.54	308.00	308.00	
Load Conveyor S Bean				1.00	May											
GRD LABORS. BEANS	hour									20.00	197.40				197.40	
Cooling Snap Beans	bu box			1.00	May							200.0000	1.37	274.00	274.00	
R.B.ConveySnapBeans	each			1.00	May				2.65			0.0200			2.65	
Application 1	bu							79.68		40.00	394.80	200.0000			474.48	
Rot.Pk Table S Beans	each			1.00	May				2.42			0.0200			2.42	
Application 1	bu							7.58		2.00	19.74	200.0000			27.32	
TOTALS							29.20	19.80	156.74	122.31	215.45	2134.92				3849.69
INTEREST ON OPERATING CAPITAL																20.79
UNALLOCATED LABOR																7.80
TOTAL SPECIFIED COST																3878.28

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 10.B Estimated costs per acre
 Snap beans, fresh market, hand harvest
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	6.0000	127.26	_____
Amm Nitrate (34%)	cwt	24.00	0.7500	18.00	_____
FUNGICIDE					
Blocker 10G	lb	1.50	13.7500	20.63	_____
Kocide 2000	lb	6.90	3.0000	20.70	_____
HERBICIDE					
Treflan 4D	pt	3.40	2.0000	6.80	_____
INSECTICIDE					
Mustang Max	oz	1.60	16.0000	25.60	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	8.12	70.0000	568.40	_____
OTHER					
Bushel Box	each	1.54	200.0000	308.00	_____
Cooling Snap Beans	bu box	1.37	200.0000	274.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	3.1054	38.97	_____
HARVEST LABOR					
Special Labor	hour	9.87	150.0000	1480.50	_____
HAND LABOR					
Implements	hour	9.87	0.3543	3.51	_____
GRD LABORS. BEANS					
Special Labor	hour	9.87	20.0000	197.40	_____
R.B.ConveySnapBeans	hour	9.87	40.0000	394.80	_____
Rot.Pk Table S Beans	hour	9.87	2.0000	19.74	_____
UNALLOCATED LABOR	hour	12.55	0.6210	7.80	_____
DIESEL FUEL					
Tractors	gal	2.15	11.9884	25.79	_____
REPAIR & MAINTENANCE					
Implements	acre	69.48	1.0000	69.48	_____
Tractors	acre	3.41	1.0000	3.41	_____
R.B.ConveySnapBeans	bu	0.39	200.0000	79.68	_____
Rot.Pk Table S Beans	bu	0.03	200.0000	7.58	_____
INTEREST ON OP. CAP.	acre	20.79	1.0000	20.79	_____
TOTAL DIRECT EXPENSES				3736.17	_____
FIXED EXPENSES					
Implements	acre	117.24	1.0000	117.24	_____
Tractors	acre	19.80	1.0000	19.80	_____
R.B.ConveySnapBeans	each	132.30	0.0200	2.65	_____
Rot.Pk Table S Beans	each	121.02	0.0200	2.42	_____
TOTAL FIXED EXPENSES				142.11	_____
TOTAL SPECIFIED EXPENSES				3878.28	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 10.C Estimated monthly income and expense flows per acre
 Snap beans, fresh market, hand harvest
 Mississippi, 2015

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	144.59	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	20.63	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	12.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	568.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	582.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	16.00	13.37	18.66	2094.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.90	7.37	9.77	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.76	28.42	41.56	87.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.62	7.16	0.88	10.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	180.67	658.15	122.37	2774.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-180.67	-658.15	-122.37	-2774.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-180.67	-838.82	-961.19	-3736.17	-3736.17	-3736.17	-3736.17	-3736.17	-3736.17	-3736.17	-3736.17	-3736.17

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 10.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Snap beans, fresh market, hand harvest
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Snap Beans			13.44	14.29	15.27	16.41	17.76	19.39	21.37	23.85	27.03	31.28	37.23
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	301b	-2237	-2152	-2054	-1939	-1804	-1642	-1444	-1196	-877	-452	142
			-2379	-2294	-2196	-2082	-1946	-1784	-1586	-1338	-1019	-594	0
60	120.00	301b	-1999	-1897	-1779	-1642	-1480	-1285	-1047	-750	-367	142	855
			-2141	-2039	-1921	-1784	-1622	-1427	-1189	-892	-509	0	713
70	140.00	301b	-1761	-1642	-1505	-1345	-1155	-928	-651	-304	142	736	1569
			-1903	-1784	-1647	-1487	-1297	-1070	-793	-446	0	594	1427
80	160.00	301b	-1523	-1387	-1230	-1047	-831	-571	-254	142	651	1331	2283
			-1665	-1529	-1372	-1189	-973	-713	-396	0	509	1189	2141
90	180.00	301b	-1285	-1132	-956	-750	-506	-214	142	588	1161	1926	2997
			-1427	-1274	-1098	-892	-648	-356	0	446	1019	1784	2855
100	200.00	301b	-1047	-877	-681	-452	-182	142	538	1034	1671	2521	3711
			-1189	-1019	-823	-594	-324	0	396	892	1529	2379	3569
110	220.00	301b	-809	-622	-406	-155	142	499	935	1480	2181	3116	4425
			-951	-764	-549	-297	0	356	793	1338	2039	2974	4282
120	240.00	301b	-571	-367	-132	142	466	855	1331	1926	2691	3711	5138
			-713	-509	-274	0	324	713	1189	1784	2549	3569	4996
130	260.00	301b	-333	-112	142	439	791	1212	1728	2372	3201	4306	5852
			-475	-254	0	297	648	1070	1586	2230	3059	4164	5710
140	280.00	301b	-95	142	416	736	1115	1569	2124	2818	3711	4900	6566
			-237	0	274	594	973	1427	1982	2676	3569	4758	6424
150	300.00	301b	142	397	691	1034	1439	1926	2521	3265	4221	5495	7280
			0	254	549	892	1297	1784	2379	3123	4079	5353	7138

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 11.A Estimated resource use and costs for field operations, per acre
 Snap beans, fresh market, mechanical harvest
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Feb							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Feb	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Fert 13-13-13	cwt											6.0000	21.21	127.26	127.26
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											2.0000	3.40	6.80	6.80
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Mar	3.73	2.53	7.69	11.68	0.39	4.98				30.61
Snap Beans - Hybrid	lb											70.0000	8.12	568.40	568.40
Blocker 10G	lb											13.7500	1.50	20.63	20.63
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Mustang Max	oz											8.0000	1.60	12.80	12.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Kocide 2000	lb											3.0000	6.90	20.70	20.70
Cultivate+Sidedress	2-Row	2WD 75 hp	0.390	1.00	Apr	3.67	2.49	0.43	1.77	0.58	6.83				15.19
Amm Nitrate (34%)	cwt											0.7500	24.00	18.00	18.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Mustang Max	oz											8.0000	1.60	12.80	12.80
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	May	33.56	22.77	53.07	34.12	10.71	115.32				258.84
Bushel Box	each											150.0000	1.54	231.00	231.00
Trailer - Snap Bean	16'	2WD 75 hp	3.571	1.00	May	33.56	22.77	2.21	3.56	7.14	80.07				142.17
Load Conveyor S Bean				1.00	May										
GRD LABORS. BEANS	hour									20.00	197.40				197.40
Cooling Snap Beans	bu box			1.00	May							150.0000	1.37	205.50	205.50
R.B.ConveySnapBeans	each			1.00	May				2.65			0.0200			2.65
Application 1	bu							59.76		30.00	296.10	150.0000			355.86
Rot.Pk Table S Beans	each			1.00	May				2.42			0.0200			2.42
Application 1	bu							5.69		1.50	14.81	150.0000			20.50
TOTALS						97.32	66.02	189.82	158.50	72.93	747.60			1241.22	2500.48
INTEREST ON OPERATING CAPITAL															15.63
UNALLOCATED LABOR															25.98
TOTAL SPECIFIED COST															2542.09

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 11.B Estimated costs per acre
 Snap beans, fresh market, mechanical harvest
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	6.0000	127.26	_____
Amm Nitrate (34%)	cwt	24.00	0.7500	18.00	_____
FUNGICIDE					
Blocker 10G	lb	1.50	13.7500	20.63	_____
Kocide 2000	lb	6.90	3.0000	20.70	_____
HERBICIDE					
Treflan 4D	pt	3.40	2.0000	6.80	_____
INSECTICIDE					
Mustang Max	oz	1.60	16.0000	25.60	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	8.12	70.0000	568.40	_____
OTHER					
Bushel Box	each	1.54	150.0000	231.00	_____
Cooling Snap Beans	bu box	1.37	150.0000	205.50	_____
OPERATOR LABOR					
Tractors	hour	12.55	10.3551	129.95	_____
HAND LABOR					
Implements	hour	9.87	11.0770	109.34	_____
GRD LABORS. BEANS					
Special Labor	hour	9.87	20.0000	197.40	_____
R.B.ConveySnapBeans	hour	9.87	30.0000	296.10	_____
Rot.Pk Table S Beans	hour	9.87	1.5000	14.81	_____
UNALLOCATED LABOR	hour	12.54	2.0710	25.98	_____
DIESEL FUEL					
Tractors	gal	2.15	39.9749	85.95	_____
REPAIR & MAINTENANCE					
Implements	acre	124.37	1.0000	124.37	_____
Tractors	acre	11.37	1.0000	11.37	_____
R.B.ConveySnapBeans	bu	0.39	150.0000	59.76	_____
Rot.Pk Table S Beans	bu	0.03	150.0000	5.69	_____
INTEREST ON OP. CAP.	acre	15.63	1.0000	15.63	_____
TOTAL DIRECT EXPENSES				2317.57	_____
FIXED EXPENSES					
Implements	acre	153.43	1.0000	153.43	_____
Tractors	acre	66.02	1.0000	66.02	_____
R.B.ConveySnapBeans	each	132.30	0.0200	2.65	_____
Rot.Pk Table S Beans	each	121.02	0.0200	2.42	_____
TOTAL FIXED EXPENSES				224.52	_____
TOTAL SPECIFIED EXPENSES				2542.09	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 11.C Estimated monthly income and expense flows per acre
 Snap beans, fresh market, mechanical harvest
 Mississippi, 2015

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	144.59	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	20.63	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	12.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	568.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	436.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	16.00	13.37	22.59	721.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.90	7.37	11.40	59.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.76	28.42	41.44	128.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.62	7.16	0.92	4.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	180.67	658.15	127.85	1350.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-180.67	-658.15	-127.85	-1350.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-180.67	-838.82	-966.67	-2317.57	-2317.57	-2317.57	-2317.57	-2317.57	-2317.57	-2317.57	-2317.57	-2317.57

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 11.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Snap beans, fresh market, mechanical harvest
 Mississippi, 2015

Snap Beans			-----BREAKEVEN PRICE-----										
			11.81	12.54	13.39	14.38	15.54	16.94	18.65	20.79	23.54	27.21	32.34
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	301b	-1315 -1540	-1260 -1485	-1197 -1421	-1123 -1347	-1035 -1260	-930 -1155	-802 -1026	-641 -866	-435 -660	-160 -385	224 0
60	90.00	301b	-1161 -1386	-1095 -1320	-1019 -1243	-930 -1155	-825 -1050	-699 -924	-545 -770	-353 -577	-105 -330	224 0	686 462
70	105.00	301b	-1007 -1232	-930 -1155	-841 -1066	-738 -962	-615 -840	-468 -693	-288 -513	-64 -288	224 0	609 385	1148 924
80	120.00	301b	-853 -1078	-765 -990	-664 -888	-545 -770	-405 -630	-237 -462	-32 -256	224 0	554 330	994 770	1610 1386
90	135.00	301b	-699 -924	-600 -825	-486 -710	-353 -577	-195 -420	-6 -231	224 0	513 288	884 660	1379 1155	2072 1848
100	150.00	301b	-545 -770	-435 -660	-308 -533	-160 -385	14 -210	224 0	481 256	802 577	1214 990	1764 1540	2534 2310
110	165.00	301b	-391 -616	-270 -495	-130 -355	32 -192	224 0	455 231	737 513	1090 866	1544 1320	2149 1925	2996 2772
120	180.00	301b	-237 -462	-105 -330	46 -177	224 0	434 210	686 462	994 770	1379 1155	1874 1650	2534 2310	3458 3234
130	195.00	301b	-83 -308	59 -165	224 0	417 192	644 420	917 693	1251 1026	1668 1443	2204 1980	2919 2695	3920 3696
140	210.00	301b	70 -154	224 0	402 177	609 385	854 630	1148 924	1507 1283	1957 1732	2534 2310	3304 3080	4382 4158
150	225.00	301b	224 0	389 165	579 355	802 577	1064 840	1379 1155	1764 1540	2245 2021	2864 2640	3689 3465	4845 4620

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 12.A Estimated resource use and costs for field operations, per acre
 Southern peas, fresh market, hand harvest
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Sub-Soiler	2 shank	2WD 75 hp	0.404	1.00	Feb	3.80	2.58	1.01	2.27	0.40	5.08				14.74
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Amm Nitrate (34%)	cwt											0.5000	24.00	12.00	12.00
Phosphorus(46% P205)	cwt											1.5600	24.50	38.22	38.22
Potash (60% K20)	cwt											1.2000	23.60	28.32	28.32
Disk Harrow	14'	2WD 75 hp	0.141	2.00	Mar	2.66	1.81	1.72	3.50	0.28	3.56				13.25
Disk Bed	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.28	0.70	0.14	1.77				4.97
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											0.5000	3.40	1.70	1.70
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Apr	2.13	1.44	16.07	24.40	0.22	2.84				46.88
Southern Peas - OP	lb											10.0000	3.96	39.60	39.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Mustang Max	oz											8.0000	1.60	12.80	12.80
Cultivate	4-Row	2WD 75 hp	0.155	1.00	May	1.46	0.99	0.33	0.83	0.15	1.95				5.56
Trailer - Vegetables	16'	2WD 75 hp	0.090	3.00	May	2.54	1.72	0.15	0.24	0.54	6.05				10.70
HARVEST LABOR	hour			1.00	May					75.00	740.25				740.25
5-Gal Bucket	each											20.0000	3.95	79.00	79.00
Sheller S. Peas	each			1.00	May				5.54			0.0200			5.54
100/10 lb bg S. Peas	acre							0.24		6.00	59.22	1.0000			59.46
R.B.Convey S. Peas	each			1.00	May				2.65			0.0200			2.65
Rot.Pk.Table S Peas	each			1.00	May				2.42			0.0200			2.42
Application 1	acre							0.15		3.00	29.61	1.0000			29.76
Bag Sealer S. Peas	each			1.00	May				0.39			0.0200			0.39
Application 1	acre							0.30		0.10	0.99	1.0000			1.29
TOTALS						23.45	15.92	50.06	92.86	86.96	865.01			234.85	1282.15
INTEREST ON OPERATING CAPITAL															6.02
UNALLOCATED LABOR															6.27
TOTAL SPECIFIED COST															1294.44

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 12.B Estimated costs per acre
 Southern peas, fresh market, hand harvest
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Amm Nitrate (34%)	cwt	24.00	0.5000	12.00	_____
Phosphorus (46% P205)	cwt	24.50	1.5600	38.22	_____
Potash (60% K20)	cwt	23.60	1.2000	28.32	_____
HERBICIDE					
Treflan 4D	pt	3.40	0.5000	1.70	_____
INSECTICIDE					
Brigade 2EC	oz	0.98	6.0000	5.88	_____
Mustang Max	oz	1.60	8.0000	12.80	_____
SEED/PLANTS					
Southern Peas - OP	lb	3.96	10.0000	39.60	_____
OTHER					
5-Gal Bucket	each	3.95	20.0000	79.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	2.4950	31.32	_____
HARVEST LABOR					
Special Labor	hour	9.87	75.0000	740.25	_____
HAND LABOR					
Implements	hour	9.87	0.3669	3.62	_____
GRD LABORPEAS					
Rot.Pk.Table S Peas	hour	9.87	3.0000	29.61	_____
Bag Sealer S. Peas	hour	9.87	0.1000	0.99	_____
Sheller S. Peas	hour	9.87	6.0000	59.22	_____
UNALLOCATED LABOR	hour	12.56	0.4990	6.27	_____
DIESEL FUEL					
Tractors	gal	2.15	9.6319	20.72	_____
REPAIR & MAINTENANCE					
Implements	acre	49.37	1.0000	49.37	_____
Tractors	acre	2.73	1.0000	2.73	_____
Rot.Pk.Table S Peas	acre	0.15	1.0000	0.15	_____
Bag Sealer S. Peas	acre	0.29	1.0000	0.30	_____
Sheller S. Peas	acre	0.23	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	6.02	1.0000	6.02	_____
TOTAL DIRECT EXPENSES				1185.66	_____
FIXED EXPENSES					
Implements	acre	81.86	1.0000	81.86	_____
Tractors	acre	15.92	1.0000	15.92	_____
R.B.Convey S. Peas	each	132.30	0.0200	2.65	_____
Rot.Pk.Table S Peas	each	121.02	0.0200	2.42	_____
Bag Sealer S. Peas	each	19.62	0.0200	0.39	_____
Sheller S. Peas	each	277.07	0.0200	5.54	_____
TOTAL FIXED EXPENSES				108.78	_____
TOTAL SPECIFIED EXPENSES				1294.44	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 12.C Estimated monthly income and expense flows per acre
 Southern peas, fresh market, hand harvest
 Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	78.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	5.88	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.37	6.39	10.99	846.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.06	3.52	5.53	7.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.63	2.46	26.77	21.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.32	1.35	0.14	0.66	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.65	92.95	12.51	91.13	971.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.65	-92.95	-12.51	-91.13	-971.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.65	-110.60	-123.11	-214.24	-1185.66	-1185.66	-1185.66	-1185.66	-1185.66	-1185.66	-1185.66	-1185.66

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 12.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Southern peas, fresh market, hand harvest
 Mississippi, 2015

Southern Peas			-----BREAKEVEN PRICE-----										
			8.62	9.24	9.95	10.78	11.76	12.94	14.38	16.18	18.49	21.57	25.88
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	101b	-754 -862	-723 -832	-687 -796	-646 -755	-597 -706	-538 -647	-466 -575	-376 -485	-261 -369	-106 -215	108 0
60	60.00	101b	-667 -776	-630 -739	-588 -697	-538 -647	-479 -588	-408 -517	-322 -431	-214 -323	-76 -184	108 0	367 258
70	70.00	101b	-581 -690	-538 -647	-488 -597	-430 -539	-361 -470	-279 -388	-178 -287	-53 -161	108 0	324 215	626 517
80	80.00	101b	-495 -604	-445 -554	-389 -497	-322 -431	-244 -353	-150 -258	-35 -143	108 0	293 184	540 431	885 776
90	90.00	101b	-408 -517	-353 -462	-289 -398	-214 -323	-126 -235	-20 -129	108 0	270 161	478 369	756 647	1144 1035
100	100.00	101b	-322 -431	-261 -369	-189 -298	-106 -215	-8 -117	108 0	252 143	432 323	663 554	971 862	1403 1294
110	110.00	101b	-236 -345	-168 -277	-90 -199	0 -107	108 0	238 129	396 287	594 485	848 739	1187 1078	1662 1553
120	120.00	101b	-150 -258	-76 -184	9 -99	108 0	226 117	367 258	540 431	756 647	1033 924	1403 1294	1920 1812
130	130.00	101b	-63 -172	16 -92	108 0	216 107	344 235	497 388	684 575	917 809	1218 1109	1618 1510	2179 2071
140	140.00	101b	22 -86	108 0	208 99	324 215	461 353	626 517	827 719	1079 970	1403 1294	1834 1725	2438 2329
150	150.00	101b	108 0	201 92	307 199	432 323	579 470	756 647	971 862	1241 1132	1588 1479	2050 1941	2697 2588

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 13.A Estimated resource use and costs for field operations, per acre
 Southern peas, fresh market, mechanical harvest
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Sub-Soiler	2 shank	2WD 75 hp	0.404	1.00	Feb	3.80	2.58	1.01	2.27	0.40	5.08				14.74
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Amm Nitrate (34%)	cwt											0.5000	24.00	12.00	12.00
Phosphorus(46% P205)	cwt											1.5600	24.50	38.22	38.22
Potash (60% K20)	cwt											1.2000	23.60	28.32	28.32
Disk Harrow	14'	2WD 75 hp	0.141	2.00	Mar	2.66	1.81	1.72	3.50	0.28	3.56				13.25
Disk Bed	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.28	0.70	0.14	1.77				4.97
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Treflan 4D	pt											0.5000	3.40	1.70	1.70
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Apr	2.13	1.44	16.07	24.40	0.22	2.84				46.88
Southern Peas - OP	lb											10.0000	3.96	39.60	39.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Mustang Max	oz											8.0000	1.60	12.80	12.80
Cultivate	4-Row	2WD 75 hp	0.155	1.00	May	1.46	0.99	0.33	0.83	0.15	1.95				5.56
Trailer-Southern Pea	16'	2WD 75 hp	3.571	1.00	May	33.56	22.77	2.21	3.56	7.14	80.07				142.17
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	May	33.56	22.77	53.07	34.12	10.71	115.32				258.84
Sacks - S Peas	each											75.0000	0.41	30.75	30.75
Sheller S. Peas	each			1.00	May				5.54			0.0200			5.54
64/10 lb bg S. Peas	acre							0.24		6.00	59.22	1.0000			59.46
R.B.Convey S. Peas	each			1.00	May				2.65			0.0200			2.65
Rot.Pk.Table S Peas	each			1.00	May				2.42			0.0200			2.42
Application 1	acre							0.15		3.00	29.61	1.0000			29.76
Bag Sealer S. Peas	each			1.00	May				0.39			0.0200			0.39
Application 1	acre							0.30		0.10	0.99	1.0000			1.29
TOTALS						88.03	59.74	105.19	130.30	29.27	314.10			186.60	883.96
INTEREST ON OPERATING CAPITAL															4.33
UNALLOCATED LABOR															23.51
TOTAL SPECIFIED COST															911.80

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 13.B Estimated costs per acre
 Southern peas, fresh market, mechanical harvest
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Amm Nitrate (34%)	cwt	24.00	0.5000	12.00	_____
Phosphorus (46% P205)	cwt	24.50	1.5600	38.22	_____
Potash (60% K20)	cwt	23.60	1.2000	28.32	_____
HERBICIDE					
Treflan 4D	pt	3.40	0.5000	1.70	_____
INSECTICIDE					
Brigade 2EC	oz	0.98	6.0000	5.88	_____
Mustang Max	oz	1.60	8.0000	12.80	_____
SEED/PLANTS					
Southern Peas - OP	lb	3.96	10.0000	39.60	_____
OTHER					
Sacks - S Peas	each	0.41	75.0000	30.75	_____
OPERATOR LABOR					
Tractors	hour	12.55	9.3679	117.57	_____
HAND LABOR					
Implements	hour	9.87	10.8112	106.71	_____
GRD LABORPEAS					
Rot.Pk.Table S Peas	hour	9.87	3.0000	29.61	_____
Bag Sealer S. Peas	hour	9.87	0.1000	0.99	_____
Sheller S. Peas	hour	9.87	6.0000	59.22	_____
UNALLOCATED LABOR	hour	12.54	1.8735	23.51	_____
DIESEL FUEL					
Tractors	gal	2.15	36.1639	77.76	_____
REPAIR & MAINTENANCE					
Implements	acre	104.50	1.0000	104.50	_____
Tractors	acre	10.27	1.0000	10.27	_____
Rot.Pk.Table S Peas	acre	0.15	1.0000	0.15	_____
Bag Sealer S. Peas	acre	0.29	1.0000	0.30	_____
Sheller S. Peas	acre	0.23	1.0000	0.24	_____
INTEREST ON OP. CAP.	acre	4.33	1.0000	4.33	_____
TOTAL DIRECT EXPENSES				721.76	_____
FIXED EXPENSES					
Implements	acre	119.30	1.0000	119.30	_____
Tractors	acre	59.74	1.0000	59.74	_____
R.B.Convey S. Peas	each	132.30	0.0200	2.65	_____
Rot.Pk.Table S Peas	each	121.02	0.0200	2.42	_____
Bag Sealer S. Peas	each	19.62	0.0200	0.39	_____
Sheller S. Peas	each	277.07	0.0200	5.54	_____
TOTAL FIXED EXPENSES				190.04	_____
TOTAL SPECIFIED EXPENSES				911.80	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 13.C Estimated monthly income and expense flows per acre
 Southern peas, fresh market, mechanical harvest
 Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	78.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	5.88	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	30.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.37	6.39	10.99	312.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.06	3.52	5.53	64.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.63	2.46	26.77	84.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.32	1.35	0.14	0.66	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.65	92.95	12.51	91.13	507.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.65	-92.95	-12.51	-91.13	-507.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.65	-110.60	-123.11	-214.24	-721.76	-721.76	-721.76	-721.76	-721.76	-721.76	-721.76	-721.76

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 13.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Southern peas, fresh market, mechanical harvest
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Southern Peas			9.49	10.17	10.95	11.87	12.95	14.24	15.82	17.80	20.35	23.74	28.49
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.00	101b	-417 -607	-396 -586	-371 -561	-341 -531	-307 -497	-265 -455	-215 -405	-151 -341	-70 -260	38 -151	190 0
60	38.40	101b	-357 -547	-330 -521	-300 -490	-265 -455	-224 -414	-174 -364	-113 -303	-37 -227	59 -130	190 0	372 182
70	44.80	101b	-296 -486	-265 -455	-230 -420	-189 -379	-141 -331	-83 -273	-12 -202	76 -113	190 0	342 151	554 364
80	51.20	101b	-235 -425	-200 -390	-160 -350	-113 -303	-58 -248	7 -182	88 -101	190 0	320 130	493 303	737 547
90	57.60	101b	-174 -364	-135 -325	-90 -280	-37 -227	24 -165	98 -91	190 0	304 113	450 260	645 455	919 729
100	64.00	101b	-113 -303	-70 -260	-20 -210	38 -151	107 -82	190 0	291 101	417 227	580 390	797 607	1101 911
110	70.40	101b	-53 -243	-5 -195	49 -140	114 -75	190 0	281 91	392 202	531 341	711 521	949 759	1284 1094
120	76.80	101b	7 -182	59 -130	119 -70	190 0	272 82	372 182	493 303	645 455	841 651	1101 911	1466 1276
130	83.20	101b	68 -121	124 -65	190 0	266 75	355 165	463 273	595 405	759 569	971 781	1253 1063	1648 1458
140	89.60	101b	129 -60	190 0	260 70	342 151	438 248	554 364	696 506	873 683	1101 911	1405 1215	1831 1641
150	96.00	101b	190 0	255 65	330 140	417 227	521 331	645 455	797 607	987 797	1232 1042	1557 1367	2013 1823

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 14.A Estimated resource use and costs for field operations, per acre
 Squash, summer, fresh market, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Feb							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Fert 13-13-13	cwt											9.0000	21.21	190.89	190.89
BS, Lay/Tape/Squash	Bed 5'cntr	2WD 75 hp	1.294	1.00	Mar	12.16	8.25	2.87	7.81	1.29	16.24				47.33
Plastic Mulch	roll											2.2000	166.00	365.20	365.20
Drip Tape	roll											1.5000	182.50	273.75	273.75
Plntr/H20/pnch/seed	1-Row	2WD 75 hp	2.578	1.00	Apr	24.23	16.43	4.90	7.57	5.15	57.81				110.94
Squash - Hybrid	lb											2.0000	210.00	420.00	420.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											50.0000	0.38	19.00	19.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Quadris	oz											11.0000	2.86	31.46	31.46
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											25.0000	0.38	9.50	9.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Brigade 2EC	oz											12.0000	0.98	11.76	11.76
Bravo Weather Stick	pt											3.0000	4.43	13.29	13.29
Fertigate CAN03/KN03				4.00	May										
FERTIGATION LABOR	hour									4.00	39.48				39.48
Calcium Nitrate	lb											100.0000	0.38	38.00	38.00
Trailer - Vegetables	16'	2WD 75 hp	0.090	10.00	Jun	8.46	5.74	0.50	0.80	1.80	20.18				35.68
HARVEST LABOR	hour			1.00	Jun					100.00	987.00				987.00
5-Gal Bucket	each											200.0000	3.95	790.00	790.00
Bushel Box	each											250.0000	1.54	385.00	385.00
GRADE & PACK LABOR	hour			10.00	Jun					110.00	1085.70				1085.70
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Jun	5.54	3.76	0.15	2.48	0.58	7.40				19.33
LABOR MULCH CLEANUP	hour									15.00	148.05				148.05
Irrigation Setup	acre				Apr							1.0000			329.33
TOTALS						66.75	45.28	49.53	87.82	243.65	2423.88			3184.82	6187.41
INTEREST ON OPERATING CAPITAL															41.07
UNALLOCATED LABOR															17.83
TOTAL SPECIFIED COST															6246.31

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 14.B Estimated costs per acre
Squash, summer, fresh market, irrigated
5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	9.0000	190.89	_____
Calcium Nitrate	lb	0.38	200.0000	76.00	_____
FUNGICIDE					
Quadris	oz	2.86	11.0000	31.46	_____
Bravo Weather Stick	pt	4.43	3.0000	13.29	_____
INSECTICIDE					
Brigade 2EC	oz	0.98	18.0000	17.64	_____
SEED/PLANTS					
Squash - Hybrid	lb	210.00	2.0000	420.00	_____
OTHER					
Plastic Mulch	roll	166.00	2.2000	365.20	_____
5-Gal Bucket	each	3.95	200.0000	790.00	_____
Bushel Box	each	1.54	250.0000	385.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	1.5000	273.75	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	7.1016	89.14	_____
HARVEST LABOR					
Special Labor	hour	9.87	100.0000	987.00	_____
GRADE & PACK LABOR					
Special Labor	hour	9.87	110.0000	1085.70	_____
HAND LABOR					
Implements	hour	9.87	3.5486	35.03	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	8.0000	78.96	_____
LABOR MULCH CLEANUP					
Special Labor	hour	9.87	15.0000	148.05	_____
UNALLOCATED LABOR					
	hour	12.55	1.4203	17.83	_____
DIESEL FUEL					
Tractors	gal	2.15	27.4151	58.95	_____
REPAIR & MAINTENANCE					
Implements	acre	49.53	1.0000	49.53	_____
Tractors	acre	7.80	1.0000	7.80	_____
INTEREST ON OP. CAP.	acre	41.07	1.0000	41.07	_____
TOTAL DIRECT EXPENSES				5783.88	_____
FIXED EXPENSES					
Implements	acre	87.82	1.0000	87.82	_____
Tractors	acre	45.28	1.0000	45.28	_____
Irrigation Setup	acre	329.33	1.0000	329.33	_____
TOTAL FIXED EXPENSES				462.43	_____
TOTAL SPECIFIED EXPENSES				6246.31	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 14.C Estimated monthly income and expense flows per acre
 Squash, summer, fresh market, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	190.89	38.00	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	44.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	365.20	0.00	0.00	1175.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	273.75	604.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	28.29	118.55	39.48	2252.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	15.20	29.56	0.00	12.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.59	6.15	48.30	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.43	12.92	14.53	0.57	12.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.50	892.40	1335.59	78.05	3454.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.50	-892.40	-1335.59	-78.05	-3454.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.50	-915.90	-2251.49	-2329.54	-5783.88	-5783.88	-5783.88	-5783.88	-5783.88	-5783.88	-5783.88	-5783.88

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 14.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Squash, summer, fresh market, irrigated
 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Squash			17.17	18.28	19.57	21.07	22.85	24.98	27.58	30.84	35.03	40.61	48.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	125.00	421b	-3444 -3906	-3304 -3767	-3143 -3606	-2955 -3418	-2733 -3196	-2467 -2929	-2141 -2604	-1735 -2197	-1211 -1674	-514 -976	462 0
60	150.00	421b	-3053 -3515	-2886 -3348	-2692 -3155	-2467 -2929	-2201 -2663	-1881 -2343	-1490 -1953	-1002 -1464	-374 -837	462 0	1634 1171
70	175.00	421b	-2662 -3125	-2467 -2929	-2242 -2704	-1979 -2441	-1668 -2130	-1295 -1757	-839 -1302	-270 -732	462 0	1439 976	2806 2343
80	200.00	421b	-2272 -2734	-2048 -2511	-1791 -2253	-1490 -1953	-1135 -1598	-709 -1171	-188 -651	462 0	1299 837	2415 1953	3978 3515
90	225.00	421b	-1881 -2343	-1630 -2092	-1340 -1803	-1002 -1464	-603 -1065	-123 -585	462 0	1194 732	2136 1674	3392 2929	5150 4687
100	250.00	421b	-1490 -1953	-1211 -1674	-889 -1352	-514 -976	-70 -532	462 0	1113 651	1927 1464	2973 2511	4369 3906	6322 5859
110	275.00	421b	-1100 -1562	-793 -1255	-439 -901	-25 -488	462 0	1048 585	1764 1302	2659 2197	3810 3348	5345 4883	7494 7031
120	300.00	421b	-709 -1171	-374 -837	11 -450	462 0	995 532	1634 1171	2415 1953	3392 2929	4648 4185	6322 5859	8666 8203
130	325.00	421b	-318 -781	43 -418	462 0	950 488	1527 1065	2220 1757	3066 2604	4124 3662	5485 5022	7298 6836	9838 9375
140	350.00	421b	71 -390	462 0	913 450	1439 976	2060 1598	2806 2343	3717 3255	4857 4394	6322 5859	8275 7813	11010 10547
150	375.00	421b	462 0	880 418	1363 901	1927 1464	2593 2130	3392 2929	4369 3906	5589 5127	7159 6697	9252 8789	12182 11719

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 15.A Estimated resource use and costs for field operations, per acre
 Sweet corn, fresh market, hand harvest
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Fert 13-13-13	cwt											7.5000	21.21	159.08	159.08
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Mar	1.46	0.99	0.33	0.83	0.15	1.95				5.56
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Mar	2.13	1.44	16.07	24.40	0.22	2.84				46.88
Sweet Corn - Hybrid	lb											9.0000	21.29	191.61	191.61
Poncho	lbseed											0.2020	0.73	0.15	0.15
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Mar	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Bicep II Magnum	pt											4.0000	10.97	43.88	43.88
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	2.00	Apr	3.65	2.47	1.54	6.36	0.58	6.78				20.80
Amm Nitrate (34%)	cwt											4.0000	24.00	96.00	96.00
Sprayer 110 gal	30' 47hp		0.035	7.00	May	1.92	4.63			0.37	4.32				10.87
Brigade 2EC	oz											42.0000	0.98	41.16	41.16
Sprayer 110 gal	30' 47hp		0.035	5.00	Jun	1.36	3.31			0.26	3.08				7.75
Radiant 1SC	oz											30.0000	6.20	186.00	186.00
Brigade 2EC	oz											20.0000	0.98	19.60	19.60
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.85	0.57	0.05	0.08	0.18	2.02				3.57
HARVEST & PACK LABOR	hour			1.00	Jun					50.00	493.50				493.50
Crates - Sweet Corn	each			1.00	Jun							200.0000	2.25	450.00	450.00
Ice + Cooling	crate											200.0000	1.29	258.00	258.00
TOTALS						20.31	19.48	19.71	35.30	52.89	528.10			1462.81	2085.71
INTEREST ON OPERATING CAPITAL															13.74
UNALLOCATED LABOR															5.61
TOTAL SPECIFIED COST															2105.06

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 15.B Estimated costs per acre
Sweet corn, fresh market, hand harvest
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	7.5000	159.08	_____
Amm Nitrate (34%)	cwt	24.00	4.0000	96.00	_____
HERBICIDE					
Bicep II Magnum	pt	10.97	4.0000	43.88	_____
INSECTICIDE					
Poncho	lbseed	0.73	0.2020	0.15	_____
Brigade 2EC	oz	0.98	62.0000	60.76	_____
Radiant 1SC	oz	6.20	30.0000	186.00	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	21.29	9.0000	191.61	_____
OTHER					
Crates - Sweet Corn	each	2.25	200.0000	450.00	_____
Ice + Cooling	crate	1.29	200.0000	258.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	1.8112	22.74	_____
Self-Propelled	hour	12.55	0.4231	5.31	_____
HAND LABOR					
Implements	hour	9.87	0.4512	4.46	_____
Self-Propelled	hour	9.87	0.2115	2.09	_____
HARVEST & PACK LABOR					
Special Labor	hour	9.87	50.0000	493.50	_____
UNALLOCATED LABOR	hour	12.55	0.4468	5.61	_____
DIESEL FUEL					
Tractors	gal	2.15	6.9920	15.04	_____
Self-Propelled	gal	2.15	0.9092	1.95	_____
REPAIR & MAINTENANCE					
Implements	acre	19.71	1.0000	19.71	_____
Tractors	acre	1.99	1.0000	1.99	_____
Self-Propelled	acre	1.33	1.0000	1.33	_____
INTEREST ON OP. CAP.	acre	13.74	1.0000	13.74	_____
TOTAL DIRECT EXPENSES				2050.28	_____
FIXED EXPENSES					
Implements	acre	35.30	1.0000	35.30	_____
Tractors	acre	11.54	1.0000	11.54	_____
Self-Propelled	acre	7.94	1.0000	7.94	_____
TOTAL FIXED EXPENSES				54.78	_____
TOTAL SPECIFIED EXPENSES				2105.06	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 15.C Estimated monthly income and expense flows per acre
 Sweet corn, fresh market, hand harvest
 Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	0.00	159.08	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	43.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.15	0.00	41.16	205.60	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	191.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	708.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	9.30	12.45	7.75	4.94	499.27	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	5.12	5.95	3.22	1.14	1.56	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.90	17.68	1.97	0.78	0.70	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.38	0.30	6.32	1.20	0.35	5.19	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.71	16.62	437.12	110.14	48.37	1420.32	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.71	-16.62	-437.12	-110.14	-48.37	-1420.32	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.71	-34.33	-471.45	-581.59	-629.96	-2050.28	-2050.28	-2050.28	-2050.28	-2050.28	-2050.28	-2050.28

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 15.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Sweet corn, fresh market, hand harvest
 Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Sweet Corn			8.20	8.53	8.91	9.36	9.89	10.52	11.30	12.26	13.51	15.17	17.49
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-874	-841	-803	-758	-705	-642	-564	-468	-343	-177	54
			-929	-896	-858	-813	-760	-697	-619	-522	-398	-232	0
60	120.00	5doz	-781	-742	-696	-642	-579	-503	-410	-293	-144	54	333
			-836	-796	-750	-697	-633	-557	-464	-348	-199	0	278
70	140.00	5doz	-688	-642	-588	-526	-452	-363	-255	-119	54	287	612
			-743	-697	-643	-581	-507	-418	-309	-174	0	232	557
80	160.00	5doz	-595	-542	-481	-410	-325	-224	-100	54	253	519	891
			-650	-597	-536	-464	-380	-278	-154	0	199	464	836
90	180.00	5doz	-503	-443	-374	-293	-198	-84	54	229	453	752	1170
			-557	-498	-429	-348	-253	-139	0	174	398	697	1115
100	200.00	5doz	-410	-343	-267	-177	-71	54	209	403	652	984	1449
			-464	-398	-321	-232	-126	0	154	348	597	929	1394
110	220.00	5doz	-317	-244	-159	-61	54	194	364	577	851	1216	1728
			-371	-298	-214	-116	0	139	309	522	796	1162	1673
120	240.00	5doz	-224	-144	-52	54	181	333	519	752	1050	1449	2007
			-278	-199	-107	0	126	278	464	697	996	1394	1952
130	260.00	5doz	-131	-44	54	170	308	473	674	926	1250	1681	2285
			-185	-99	0	116	253	418	619	871	1195	1626	2231
140	280.00	5doz	-38	54	162	287	435	612	829	1100	1449	1914	2564
			-92	0	107	232	380	557	774	1045	1394	1859	2510
150	300.00	5doz	54	154	269	403	561	752	984	1274	1648	2146	2843
			0	99	214	348	507	697	929	1220	1593	2091	2788

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 16.A Estimated resource use and costs for field operations, per acre
 Sweet corn, fresh market, train harvest (shipping)
 Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Jan							0.4950	35.00	17.33	17.33
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.32	0.90	0.40	1.02	0.21	2.47				6.11
Fert 13-13-13	cwt											7.5000	21.21	159.08	159.08
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Mar	1.46	0.99	0.33	0.83	0.15	1.95				5.56
Plntr - Vacuum+Ins	4R 30-40	2WD 75 hp	0.226	1.00	Mar	2.13	1.44	17.51	26.59	0.22	2.84				50.51
Sweet Corn - Hybrid	lb											9.0000	21.29	191.61	191.61
Poncho	lbseed											0.2020	0.73	0.15	0.15
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Mar	1.82	1.24	0.10	0.26	0.29	3.39				6.81
Bicep II Magnum	pt											4.0000	10.97	43.88	43.88
Cultivate+Sidedress	2-Row	2WD 75 hp	0.390	2.00	Apr	7.34	4.98	0.85	3.54	1.17	13.66				30.37
Amm Nitrate (34%)	cwt											4.0000	24.00	96.00	96.00
Sprayer 110 gal	30' 47hp		0.035	7.00	May	1.92	4.63			0.37	4.32				10.87
Brigade 2EC	oz											42.0000	0.98	41.16	41.16
Sprayer 110 gal	30' 47hp		0.035	5.00	Jun	1.36	3.31			0.26	3.08				7.75
Radiant 1SC	oz											30.0000	6.20	186.00	186.00
Brigade 2EC	oz											20.0000	0.98	19.60	19.60
Mule Train (Corn)	30'	2WD 75 hp	0.200	1.00	Jun	1.88	1.27	11.65	68.11	8.60	85.42				168.33
Trailer(MuleTrn)Corn	16'	2WD 75 hp	0.229	1.00	Jun	2.15	1.46	2.12	3.41	0.68	7.40				16.54
Crates - Sweet Corn	each			1.00	Jun							200.0000	2.25	450.00	450.00
Ice + Cooling	crate											200.0000	1.29	258.00	258.00
TOTALS						27.18	24.15	34.18	106.11	12.59	132.28			1462.81	1786.71
INTEREST ON OPERATING CAPITAL															12.46
UNALLOCATED LABOR															7.45
TOTAL SPECIFIED COST															1806.62

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 16.B Estimated costs per acre
 Sweet corn, fresh market, train harvest (shipping)
 Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	0.4950	17.33	_____
Fert 13-13-13	cwt	21.21	7.5000	159.08	_____
Amm Nitrate (34%)	cwt	24.00	4.0000	96.00	_____
HERBICIDE					
Bicep II Magnum	pt	10.97	4.0000	43.88	_____
INSECTICIDE					
Poncho	lbseed	0.73	0.2020	0.15	_____
Brigade 2EC	oz	0.98	62.0000	60.76	_____
Radiant 1SC	oz	6.20	30.0000	186.00	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	21.29	9.0000	191.61	_____
OTHER					
Crates - Sweet Corn	each	2.25	200.0000	450.00	_____
Ice + Cooling	crate	1.29	200.0000	258.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	2.5439	31.93	_____
Self-Propelled	hour	12.55	0.4231	5.31	_____
HARVEST LABOR					
Implements	hour	9.87	8.8583	87.43	_____
HAND LABOR					
Implements	hour	9.87	0.5580	5.52	_____
Self-Propelled	hour	9.87	0.2115	2.09	_____
UNALLOCATED LABOR	hour	12.55	0.5934	7.45	_____
DIESEL FUEL					
Tractors	gal	2.15	9.8207	21.11	_____
Self-Propelled	gal	2.15	0.9092	1.95	_____
REPAIR & MAINTENANCE					
Implements	acre	34.18	1.0000	34.18	_____
Tractors	acre	2.79	1.0000	2.79	_____
Self-Propelled	acre	1.33	1.0000	1.33	_____
INTEREST ON OP. CAP.	acre	12.46	1.0000	12.46	_____
TOTAL DIRECT EXPENSES				1676.36	_____
FIXED EXPENSES					
Implements	acre	106.11	1.0000	106.11	_____
Tractors	acre	16.21	1.0000	16.21	_____
Self-Propelled	acre	7.94	1.0000	7.94	_____
TOTAL FIXED EXPENSES				130.26	_____
TOTAL SPECIFIED EXPENSES				1806.62	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

Table 16.C Estimated monthly income and expense flows per acre
 Sweet corn, fresh market, train harvest (shipping)
 Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	17.33	0.00	159.08	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	43.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.15	0.00	41.16	205.60	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	191.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	0.00	708.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	9.30	12.45	15.62	4.94	97.42	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	5.12	5.95	6.48	1.14	4.37	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.90	19.12	1.71	0.78	14.79	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.38	0.30	6.34	1.32	0.35	3.77	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.71	16.62	438.58	121.13	48.37	1033.95	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.71	-16.62	-438.58	-121.13	-48.37	-1033.95	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.71	-34.33	-472.91	-594.04	-642.41	-1676.36	-1676.36	-1676.36	-1676.36	-1676.36	-1676.36	-1676.36

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 16.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
Sweet corn, fresh market, train harvest (shipping)
Mississippi, 2015

Sweet Corn			-----BREAKEVEN PRICE-----										
			7.20	7.46	7.76	8.11	8.53	9.03	9.64	10.40	11.38	12.68	14.51
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-600 -730	-574 -704	-544 -674	-509 -639	-467 -597	-417 -548	-356 -487	-280 -411	-182 -313	-52 -182	130 0
60	120.00	5doz	-527 -657	-496 -626	-459 -590	-417 -548	-367 -498	-308 -438	-235 -365	-143 -274	-26 -156	130 0	349 219
70	140.00	5doz	-454 -584	-417 -548	-375 -505	-326 -456	-268 -398	-198 -328	-113 -243	-6 -137	130 0	312 182	568 438
80	160.00	5doz	-381 -511	-339 -469	-291 -421	-235 -365	-168 -298	-88 -219	8 -121	130 0	286 156	495 365	787 657
90	180.00	5doz	-308 -438	-261 -391	-206 -337	-143 -274	-69 -199	20 -109	130 0	267 137	443 313	678 548	1007 876
100	200.00	5doz	-235 -365	-182 -313	-122 -252	-52 -182	30 -99	130 0	252 121	404 274	599 469	860 730	1226 1096
110	220.00	5doz	-162 -292	-104 -234	-38 -168	38 -91	130 0	239 109	373 243	541 411	756 626	1043 913	1445 1315
120	240.00	5doz	-88 -219	-26 -156	45 -84	130 0	229 99	349 219	495 365	678 548	913 782	1226 1096	1664 1534
130	260.00	5doz	-15 -146	51 -78	130 0	221 91	329 199	459 328	617 487	815 685	1069 939	1408 1278	1883 1753
140	280.00	5doz	57 -73	130 0	214 84	312 182	429 298	568 438	739 608	952 822	1226 1096	1591 1461	2103 1972
150	300.00	5doz	130 0	208 78	298 168	404 274	528 398	678 548	860 730	1089 959	1382 1252	1774 1644	2322 2192

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 17.A Estimated resource use and costs for field operations, per acre
Sweet potatoes
Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Trapping	acre			1.00	Apr							1.0000	1.00	1.00	1.00
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	Apr	0.51	0.58	0.13	0.15	0.04	0.49				1.86
Glystar Plus	pt											2.0000	2.25	4.50	4.50
Disk Harrow	24'	MFWD 170	0.082	2.00	Apr	3.91	4.90	1.96	3.99	0.16	2.07				16.83
Chisel Plow Folding	16'	MFWD 170	0.116	1.00	Apr	2.76	3.46	0.95	1.58	0.11	1.46				10.21
Custom Apply Fert	acre			1.00	Apr							1.0000	6.50	6.50	6.50
Fert 5-20-30+S+B	cwt											7.5000	34.93	261.98	261.98
xxLorsban 15G	lb											13.3000	3.59	47.75	47.75
Disk Bed (Hipper)	8R-40	MFWD 130	0.070	1.80	May	2.28	2.63	0.63	1.60	0.12	1.59				8.73
Disk Bed (Hipper)	8R-40	MFWD 130	0.070	0.20	May	0.25	0.29	0.07	0.18	0.01	0.18				0.97
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.51	0.58	0.13	0.15	0.04	0.49				1.86
Valor SX	oz											2.0000	6.15	12.30	12.30
Trailer-Sweet Potato	16'	MFWD 130	0.598	1.00	May	10.75	12.41	5.54	8.92	0.59	7.51				45.13
Sweetpotato Plants	thous											12.0000	30.00	360.00	360.00
Trailer Water	10'	MFWD 130	0.600	1.00	May	10.77	12.43	0.20	0.57	0.60	7.53				31.50
Plntr/Transplanter	8R-42	MFWD 170	0.333	1.00	May	7.89	9.88	0.05	3.37	5.66	57.51				78.70
Crate Sweetpotato	each											2.0000	8.00	16.00	16.00
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.51	0.58	0.13	0.15	0.04	0.49				1.86
Command 3ME	pt											2.0000	19.06	38.12	38.12
Brigade 2EC	oz											6.4000	0.98	6.27	6.27
Ditcher		MFWD 130	0.020	1.00	May	0.36	0.41	0.04	0.05	0.02	0.25				1.11
Scouting Sweetpotato	acre			1.00	May							1.0000	15.00	15.00	15.00
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.51	0.58	0.13	0.15	0.04	0.49				1.86
Brigade 2EC	oz											6.4000	0.98	6.27	6.27
Cultivate - Heavy	8R-42	MFWD 130	0.073	1.00	May	1.32	1.53	0.55	1.39	0.07	0.92				5.71
Ditcher		MFWD 130	0.020	1.00	May	0.36	0.41	0.04	0.05	0.02	0.25				1.11
Cultivate - Heavy	8R-42	MFWD 130	0.073	1.00	Jun	1.32	1.53	0.55	1.39	0.07	0.92				5.71
Ditcher		MFWD 130	0.020	1.00	Jun	0.36	0.41	0.04	0.05	0.02	0.25				1.11
Spray (Broadcast)	60'	MFWD 130	0.028	0.50	Jul	0.25	0.29	0.07	0.08	0.02	0.25				0.94
Poast 1.53	pt											0.5000	11.95	5.98	5.98
Hand Weeding Swt.Pot	acre			1.00	Jul							1.0000	100.00	100.00	100.00
Stalk Shredder-Flail	15'	MFWD 130	0.110	1.00	Sep	2.00	2.30	0.48	1.36	0.11	1.39				7.53
Trailer-Sweet Potato	16'	MFWD 130	0.598	1.00	Sep	10.75	12.41	5.54	8.92	0.59	7.51				45.13
SWEET POTATO LABOR	hour									1.00	10.00				10.00
Truck	1/2 ton		2.310	1.00	Sep	8.08	10.37			2.31	28.99				47.44
Truck	1 ton +		1.730	1.00	Sep	3.89	14.96			1.73	21.71				40.56
Harvester, Swt. Potato	2 Row	MFWD 170	1.011	1.00	Sep	23.93	29.96	6.23	9.12	7.07	72.56				141.80
SWEET POTATO LABOR	hour									30.00	300.00				300.00
Bin Repair	each											2.0000	1.50	3.00	3.00
Custom Skid Loader				1.00	Sep					4.36	43.60				43.60
SKID LOADER LABOR-2	hour											1.0000	13.63	13.63	13.63
Custom Skid Loader-2	acre											1.0000	7.10	7.10	7.10
Fuel Skid Loader (2)	acre									2.22	27.86				37.46
Fork Lift			2.220	1.00	Sep	1.41	8.19								70.00
Custom Haul Swt. Pot	acre			1.00	Sep							1.0000	70.00	70.00	70.00
Sweetpotato Storage	cwt			1.00	Sep							112.0000	2.00	224.00	224.00
Clean, grade, pack	box			1.00	Sep							330.0000	2.40	792.00	792.00
Box Sweetpotato	each											330.0000	1.48	488.40	488.40
Sweet Potato Broker	box			1.00	Sep							330.0000	1.00	330.00	330.00
TOTALS						94.68	131.09	23.46	43.22	57.09	596.27			2809.80	3698.52
INTEREST ON OPERATING CAPITAL															28.50
UNALLOCATED LABOR															25.77
TOTAL SPECIFIED COST															3752.79

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 17.B Estimated costs per acre
Sweet potatoes
Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Trapping	acre	1.00	1.0000	1.00	_____
Custom Apply Fert	acre	6.50	1.0000	6.50	_____
Scouting Sweetpotato	acre	15.00	1.0000	15.00	_____
Custom Skid Loader-2	acre	13.63	1.0000	13.63	_____
Fuel Skid Loader (2)	acre	7.10	1.0000	7.10	_____
Custom Haul Swt. Pot	acre	70.00	1.0000	70.00	_____
FERTILIZER					
Fert 5-20-30+S+B	cwt	34.93	7.5000	261.98	_____
HERBICIDE					
Glystar Plus	pt	2.25	2.0000	4.50	_____
Valor SX	oz	6.15	2.0000	12.30	_____
Command 3ME	pt	19.06	2.0000	38.12	_____
Poast 1.53	pt	11.95	0.5000	5.98	_____
INSECTICIDE					
xxLorsban 15G	lb	3.59	13.3000	47.75	_____
Brigade 2EC	oz	0.98	12.8000	12.54	_____
SEED/PLANTS					
Sweetpotato Plants	thous	30.00	12.0000	360.00	_____
OTHER					
Crate Sweetpotato	each	8.00	2.0000	16.00	_____
Hand Weeding Swt.Pot	acre	100.00	1.0000	100.00	_____
Bin Repair	each	1.50	2.0000	3.00	_____
Sweetpotato Storage	cwt	2.00	112.0000	224.00	_____
Clean, grade, pack	box	2.40	330.0000	792.00	_____
Box Sweetpotato	each	1.48	330.0000	488.40	_____
Sweet Potato Broker	box	1.00	330.0000	330.00	_____
OPERATOR LABOR					
Tractors	hour	12.55	4.0100	50.28	_____
Self-Propelled	hour	12.55	6.2600	78.56	_____
HAND LABOR					
Implements	hour	9.87	6.1296	60.50	_____
SWEET POTATO LABOR					
Special Labor	hour	10.00	31.0000	310.00	_____
Implements	hour	10.00	5.3333	53.33	_____
SKID LOADER LABOR-2					
Special Labor	hour	10.00	4.3600	43.60	_____
UNALLOCATED LABOR					
	hour	12.54	2.0540	25.77	_____
DIESEL FUEL					
Tractors	gal	2.15	30.1810	64.90	_____
Self-Propelled	gal	2.15	1.2456	2.68	_____
GASOLINE					
Self-Propelled	gal	2.00	3.1416	6.28	_____
REPAIR & MAINTENANCE					
Implements	acre	23.46	1.0000	23.46	_____
Tractors	acre	16.40	1.0000	16.40	_____
Self-Propelled	acre	4.42	1.0000	4.42	_____
INTEREST ON OP. CAP.	acre	28.50	1.0000	28.50	_____
TOTAL DIRECT EXPENSES				-----	_____
				3578.48	_____
FIXED EXPENSES					
Implements	acre	43.22	1.0000	43.22	_____
Tractors	acre	97.57	1.0000	97.57	_____
Self-Propelled	acre	33.52	1.0000	33.52	_____
TOTAL FIXED EXPENSES				-----	_____
				174.31	_____
TOTAL SPECIFIED EXPENSES				-----	_____
				3752.79	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.

Table 17.C Estimated monthly income and expense flows per acre
Sweet potatoes
Mississippi, 2015

ITEM	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	7.50	15.00	0.00	0.00	0.00	90.73	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	261.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	4.50	50.42	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	47.75	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	16.00	0.00	100.00	0.00	1837.40	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.79	81.91	1.40	0.29	0.00	533.65	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.71	28.41	1.35	0.20	0.00	38.19	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	4.51	14.61	0.92	0.12	0.00	24.12	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	7.40	10.60	0.05	1.18	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	344.14	589.49	3.72	107.77	0.00	2533.36	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-344.14	-589.49	-3.72	-107.77	0.00	-2533.36	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-344.14	-933.63	-937.35	-1045.12	-1045.12	-3578.48	-3578.48	-3578.48	-3578.48	-3578.48	-3578.48	-3578.48

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

* Lease costs are based on hourly usage costs.

Table 17.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
Sweet potatoes
Mississippi, 2015

Sweet Potatoes			-----BREAKEVEN PRICE-----										
			9.14	9.62	10.18	10.82	11.59	12.50	13.62	15.03	16.83	19.23	22.59
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	40lb	-1842	-1770	-1687	-1590	-1475	-1338	-1170	-960	-690	-329	174
			-2016	-1944	-1861	-1764	-1650	-1512	-1344	-1134	-864	-504	0
60	180.00	40lb	-1640	-1554	-1454	-1338	-1200	-1035	-834	-582	-257	174	779
			-1815	-1728	-1628	-1512	-1375	-1210	-1008	-756	-432	0	605
70	210.00	40lb	-1439	-1338	-1221	-1086	-925	-733	-497	-203	174	678	1384
			-1613	-1512	-1396	-1260	-1100	-907	-672	-378	0	504	1210
80	240.00	40lb	-1237	-1122	-989	-834	-650	-430	-161	174	606	1182	1989
			-1411	-1296	-1163	-1008	-825	-605	-336	0	432	1008	1815
90	270.00	40lb	-1035	-906	-756	-582	-375	-128	174	552	1038	1686	2594
			-1210	-1080	-930	-756	-550	-302	0	378	864	1512	2420
100	300.00	40lb	-834	-690	-523	-329	-100	174	510	930	1470	2191	3199
			-1008	-864	-698	-504	-275	0	336	756	1296	2016	3025
110	330.00	40lb	-632	-473	-291	-77	174	476	846	1308	1903	2695	3804
			-806	-648	-465	-252	0	302	672	1134	1728	2521	3630
120	360.00	40lb	-430	-257	-58	174	449	779	1182	1686	2335	3199	4409
			-605	-432	-232	0	275	605	1008	1512	2160	3025	4235
130	390.00	40lb	-229	-41	174	426	724	1081	1518	2065	2767	3703	5014
			-403	-216	0	252	550	907	1344	1890	2593	3529	4840
140	420.00	40lb	-27	174	407	678	999	1384	1855	2443	3199	4207	5619
			-201	0	232	504	825	1210	1680	2268	3025	4033	5445
150	450.00	40lb	174	390	639	930	1274	1686	2191	2821	3631	4712	6224
			0	216	465	756	1100	1512	2016	2647	3457	4537	6050

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

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

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

Note: Cost of production estimates are based on 2014 input prices.

Table 18.A Estimated resource use and costs for field operations, per acre
 Tomatoes, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Feb							0.3300	35.00	11.55	11.55
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.73	2.53	0.87	1.77	0.39	4.98				13.88
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Mar	0.79	0.54	0.09	0.32	0.08	1.06				2.80
Amm Nitrate (34%)	cwt											1.1700	24.00	28.08	28.08
Phosphorus(46% P205)	cwt											2.6000	24.50	63.70	63.70
Potash (60% K20)	cwt											2.0000	23.60	47.20	47.20
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Mar	1.94	1.31	0.85	1.45	0.30	3.61				9.16
Treflan 4D	pt											0.7500	3.40	2.55	2.55
BS, Lay/Tape/Tomato	Bed 6'cntr	2WD 75 hp	1.078	1.00	Mar	10.13	6.87	2.88	7.83	1.07	13.53				41.24
Plastic Mulch	roll											1.8000	166.00	298.80	298.80
Drip Tape	roll											1.2000	182.50	219.00	219.00
Plntr/H2O Tomato	1R 6'cntr	2WD 75 hp	1.718	1.00	Apr	16.16	10.96	2.49	3.85	6.87	72.46				105.92
PLANTING LABOR	hour									30.00	296.10				296.10
Tomato Plants-Hybrid	thous											4.4000	194.00	853.60	853.60
Fert 15-30-15	lb											37.5000	0.33	12.38	12.38
Admire Pro	oz											7.0000	2.95	20.65	20.65
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											30.0000	0.38	11.40	11.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											1.5000	4.43	6.65	6.65
Radiant 1SC	oz											10.0000	6.20	62.00	62.00
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											30.0000	0.38	11.40	11.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											10.0000	6.20	62.00	62.00
Quadris	oz											5.0000	2.86	14.30	14.30
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											60.0000	0.38	22.80	22.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Quadris	oz											5.0000	2.86	14.30	14.30
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Radiant 1SC	oz											10.0000	6.20	62.00	62.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Bravo Weather Stick	pt											2.0000	4.43	8.86	8.86
Oberon 2SC	oz											8.0000	4.76	38.08	38.08
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											30.0000	0.38	11.40	11.40

(continued)

Table 18.A Estimated resource use and costs for field operations, per acre
 Tomatoes, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
HAND & STOR LABOR	hour			1.00	May					10.00	98.70				98.70
Wood Stakes	100											44.0000	2.08	91.52	91.52
Plastic string	6000'											4.0000	11.00	44.00	44.00
Fertigate CAN03/KN03				3.00	May										
FERTIGATION LABOR	hour									3.00	29.61				29.61
Calcium Nitrate	lb											90.0000	0.38	34.20	34.20
Sucker Control				1.00	Jun										
HAND LABOR	hour									5.00	49.35				49.35
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											30.0000	0.38	11.40	11.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											2.0000	4.43	8.86	8.86
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Fertigate CAN03/KN03				3.00	Jun										
FERTIGATION LABOR	hour									3.00	29.61				29.61
Calcium Nitrate	lb											90.0000	0.38	34.20	34.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jul	0.85	0.57	0.05	0.08	0.18	2.02				3.57
CustomHarvest Tomato	box			1.00	Jul							1600.0000	1.00	1600.00	1600.00
5-Gal Bucket	each											200.0000	3.95	790.00	790.00
GRADE & PACK LABOR	hour			1.00	Jul					320.00	3158.40				3158.40
Box Tomato	box											1600.0000	1.84	2944.00	2944.00
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Jul	5.54	3.76	0.15	2.48	0.58	7.40				19.33
LABOR MULCH CLEANUP	hour									15.00	148.05				148.05
Irrigation Setup	acre				Apr								1.0000		325.67
TOTALS						57.38	38.93	76.82	133.51	403.45	3998.43			8068.66	12699.40
INTEREST ON OPERATING CAPITAL															83.35
UNALLOCATED LABOR															15.35
TOTAL SPECIFIED COST															12798.10

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 18.B Estimated costs per acre
 Tomatoes, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
CustomHarvest Tomato	box	1.00	1600.0000	1600.00	_____
FERTILIZER					
Lime (Spread)	ton	35.00	0.3300	11.55	_____
Amm Nitrate (34%)	cwt	24.00	1.1700	28.08	_____
Phosphorus(46% P205)	cwt	24.50	2.6000	63.70	_____
Potash (60% K20)	cwt	23.60	2.0000	47.20	_____
Fert 15-30-15	lb	0.33	37.5000	12.38	_____
Calcium Nitrate	lb	0.38	360.0000	136.80	_____
FUNGICIDE					
Bravo Weather Stick	pt	4.43	5.5000	24.37	_____
Quadris	oz	2.86	10.0000	28.60	_____
HERBICIDE					
Treflan 4D	pt	3.40	0.7500	2.55	_____
INSECTICIDE					
Admire Pro	oz	2.95	7.0000	20.65	_____
Radiant 1SC	oz	6.20	30.0000	186.00	_____
Brigade 2EC	oz	0.98	24.0000	23.52	_____
Oberon 2SC	oz	4.76	8.0000	38.08	_____
SEED/PLANTS					
Tomato Plants-Hybrid	thous	194.00	4.4000	853.60	_____
OTHER					
Plastic Mulch	roll	166.00	1.8000	298.80	_____
Wood Stakes	100	2.08	44.0000	91.52	_____
Plastic string	6000'	11.00	4.0000	44.00	_____
5-Gal Bucket	each	3.95	200.0000	790.00	_____
Box Tomato	box	1.84	1600.0000	2944.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	1.2000	219.00	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	6.1026	76.59	_____
PLANTING LABOR					
Special Labor	hour	9.87	30.0000	296.10	_____
GRADE & PACK LABOR					
Special Labor	hour	9.87	320.0000	3158.40	_____
HAND & STOR LABOR					
Special Labor	hour	9.87	10.0000	98.70	_____
HAND LABOR					
Special Labor	hour	9.87	5.0000	49.35	_____
Implements	hour	9.87	5.3493	52.80	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	12.0000	118.44	_____
LABOR MULCH CLEANUP					
Special Labor	hour	9.87	15.0000	148.05	_____
UNALLOCATED LABOR					
	hour	12.57	1.2205	15.35	_____
DIESEL FUEL					
Tractors	gal	2.15	23.5585	50.67	_____
REPAIR & MAINTENANCE					
Implements	acre	76.82	1.0000	76.82	_____
Tractors	acre	6.71	1.0000	6.71	_____
INTEREST ON OP. CAP.	acre	83.35	1.0000	83.35	_____
TOTAL DIRECT EXPENSES				12299.99	_____
FIXED EXPENSES					
Implements	acre	133.51	1.0000	133.51	_____
Tractors	acre	38.93	1.0000	38.93	_____
Irrigation Setup	acre	325.67	1.0000	325.67	_____
TOTAL FIXED EXPENSES				498.11	_____
TOTAL SPECIFIED EXPENSES				12798.10	_____

Note: Cost of production estimates are based on 2014 input prices.
Fertilization decisions should be based on soil tests.
 Irrigation implies 6 acre inches applied as needed over the
 production period for both fertigation and water needs.

Table 18.C Estimated monthly income and expense flows per acre
 Tomatoes, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

ITEM	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
CUSTOM	0.00	0.00	0.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	11.55	138.98	57.98	45.60	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	20.95	23.16	8.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	144.65	111.84	5.88	5.88	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	853.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	298.80	0.00	135.52	0.00	3734.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	219.00	604.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	27.62	419.75	149.28	92.53	3321.28	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.83	14.65	18.35	6.12	2.04	7.68	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.59	6.63	24.66	30.42	10.14	11.09	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.38	13.00	31.43	5.52	1.20	31.82	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	17.67	721.23	2175.63	507.46	166.25	8711.75	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-17.67	-721.23	-2175.63	-507.46	-166.25	-8711.75	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-17.67	-738.90	-2914.53	-3421.99	-3588.24	-12299.99	-12299.99	-12299.99	-12299.99	-12299.99	-12299.99	-12299.99

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 18.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Tomatoes, fresh market, irrigated
 6 ft row spacing, 16 gpm with 7,260 ft of drip tape, Mississippi, 2015

Tomatoes			-----BREAKEVEN PRICE-----										
			6.28	6.52	6.81	7.14	7.53	7.99	8.57	9.28	10.20	11.43	13.14
PERCENT	YIELD	UNIT	-----dollars-----										
50	800.00	251b	-4993 -5491	-4797 -5295	-4571 -5069	-4307 -4805	-3995 -4493	-3620 -4118	-3162 -3661	-2590 -3089	-1855 -2353	-874 -1372	498 0
60	960.00	251b	-4444 -4942	-4208 -4707	-3937 -4435	-3620 -4118	-3246 -3744	-2796 -3294	-2247 -2745	-1561 -2059	-678 -1176	498 0	2145 1647
70	1120.00	251b	-3895 -4393	-3620 -4118	-3303 -3801	-2934 -3432	-2497 -2995	-1973 -2471	-1332 -1830	-531 -1029	498 0	1871 1372	3793 3294
80	1280.00	251b	-3346 -3844	-3032 -3530	-2670 -3168	-2247 -2745	-1748 -2246	-1149 -1647	-417 -915	498 0	1674 1176	3243 2745	5440 4942
90	1440.00	251b	-2796 -3294	-2443 -2941	-2036 -2534	-1561 -2059	-999 -1497	-325 -823	498 0	1527 1029	2851 2353	4616 4118	7088 6589
100	1600.00	251b	-2247 -2745	-1855 -2353	-1402 -1900	-874 -1372	-250 -748	498 0	1413 915	2557 2059	4028 3530	5989 5491	8735 8237
110	1760.00	251b	-1698 -2196	-1267 -1765	-769 -1267	-188 -686	498 0	1321 823	2328 1830	3587 3089	5205 4707	7362 6864	10383 9884
120	1920.00	251b	-1149 -1647	-678 -1176	-135 -633	498 0	1246 748	2145 1647	3243 2745	4616 4118	6381 5883	8735 8237	12030 11532
130	2080.00	251b	-600 -1098	-90 -588	498 0	1184 686	1995 1497	2969 2471	4159 3661	5646 5148	7558 7060	10108 9610	13678 13179
140	2240.00	251b	-51 -549	498 0	1131 633	1871 1372	2744 2246	3793 3294	5074 4576	6676 6178	8735 8237	11481 10983	15325 14827
150	2400.00	251b	498 0	1086 588	1765 1267	2557 2059	3493 2995	4616 4118	5989 5491	7705 7207	9912 9414	12854 12356	16972 16474

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

Table 19.A Estimated resource use and costs for field operations, per acre
 Watermelons, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Jan							1.5000	35.00	52.50	52.50
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	2.07	1.40	0.35	0.58	0.22	2.77				7.17
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Feb	1.87	1.26	0.43	0.88	0.19	2.49				6.93
BS, Lay/Tape/Melon	Bed 8'cntr	2WD 75 hp	0.808	1.00	Mar	7.60	5.16	2.92	7.93	0.80	10.15				33.76
Plastic Mulch	roll											1.4000	166.00	232.40	232.40
Drip Tape	roll											0.9000	182.50	164.25	164.25
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.59	0.40	0.17	0.20	0.09	1.10				2.46
Strategy	pt											2.0000	10.24	20.48	20.48
Plntr/H2O Melon	1R 8'cntr	2WD 75 hp	0.645	1.00	Mar	6.06	4.11	1.26	1.94	2.58	27.20				40.57
Watermelon - Diploid	thous											1.8000	58.95	106.11	106.11
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	100.71	604.26	604.26
Fertigate CAN03/KN03				1.00	Mar										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											89.0000	0.38	33.82	33.82
Potash (60% K20)	cwt											0.5000	23.60	11.80	11.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Assail 30 SG	oz											4.0000	5.87	23.48	23.48
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											89.0000	0.38	33.82	33.82
Potash (60% K20)	cwt											0.5000	23.60	11.80	11.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88
Fertigate CAN03/KN03				4.00	Apr										
FERTIGATION LABOR	hour									4.00	39.48				39.48
Calcium Nitrate	lb											356.0000	0.38	135.28	135.28
Potash (60% K20)	cwt											2.0000	23.60	47.20	47.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	4.62	3.13	19.75	32.89	0.49	6.16				66.55
Bravo Weather Stick	pt											3.0000	4.43	13.29	13.29
Quadris	oz											22.0000	2.86	62.92	62.92
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	9.87				9.87
Calcium Nitrate	lb											89.0000	0.38	33.82	33.82
Potash (60% K20)	cwt											0.5000	23.60	11.80	11.80
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Bravo Weather Stick	pt											2.0000	4.43	8.86	8.86
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	19.74				19.74
Calcium Nitrate	lb											178.0000	0.38	67.64	67.64
Potash (60% K20)	cwt											1.0000	23.60	23.60	23.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	2.31	1.57	9.87	16.45	0.24	3.08				33.28
Brigade 2EC	oz											6.0000	0.98	5.88	5.88

(continued)

Table 19.A Estimated resource use and costs for field operations, per acre
 Watermelons, irrigated
 8 ft spacing with 12 gpm with 5,445 ft of drip tape, Mississippi, 2015 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Trailer - Vegetables 16'		2WD 75 hp	0.090	4.00	Jun	3.38	2.29	0.20	0.32	0.72	8.07					14.26
Harvest Labor Melons cwt				1.00	Jun							200.0000	2.37	474.00		474.00
Pallet Crates-1350lb each												20.0000	19.37	387.40		387.40
Plastic Clean Up				1.00	Jun											
Mulch Lifter	1-Row	2WD 75 hp	0.589			5.54	3.76	0.15	2.48	0.58	7.40					19.33
LABOR MULCH CLEANUP	hour									15.00	148.05					148.05
Irrigation Setup	acre				Mar								1.0000			318.36
TOTALS						40.97	27.79	64.71	113.02	30.68	314.54				2572.29	3451.68
INTEREST ON OPERATING CAPITAL																29.39
UNALLOCATED LABOR																10.95
TOTAL SPECIFIED COST																3492.02

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 19.B Estimated costs per acre
 Watermelons, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	35.00	1.5000	52.50	_____
Calcium Nitrate	lb	0.38	801.0000	304.38	_____
Potash (60% K20)	cwt	23.60	4.5000	106.20	_____
FUNGICIDE					
Bravo Weather Stick	pt	4.43	5.0000	22.15	_____
Quadris	oz	2.86	22.0000	62.92	_____
HERBICIDE					
Strategy	pt	10.24	2.0000	20.48	_____
INSECTICIDE					
Assail 30 SG	oz	5.87	4.0000	23.48	_____
Brigade 2EC	oz	0.98	12.0000	11.76	_____
SEED/PLANTS					
Watermelon - Diploid	thous	58.95	1.8000	106.11	_____
OTHER					
Plastic Mulch	roll	166.00	1.4000	232.40	_____
Harvest Labor Melons	cwt	2.37	200.0000	474.00	_____
Pallet Crates-1350lb	each	19.37	20.0000	387.40	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	182.50	0.9000	164.25	_____
Rural Water	ac-in	100.71	6.0000	604.26	_____
OPERATOR LABOR					
Tractors	hour	12.55	4.3578	54.70	_____
HAND LABOR					
Implements	hour	9.87	2.3268	22.96	_____
FERTIGATION LABOR					
Special Labor	hour	9.87	9.0000	88.83	_____
LABOR MULCH CLEANUP					
Special Labor	hour	9.87	15.0000	148.05	_____
UNALLOCATED LABOR	hour	12.56	0.8715	10.95	_____
DIESEL FUEL					
Tractors	gal	2.15	16.8230	36.18	_____
REPAIR & MAINTENANCE					
Implements	acre	64.71	1.0000	64.71	_____
Tractors	acre	4.79	1.0000	4.79	_____
INTEREST ON OP. CAP.	acre	29.39	1.0000	29.39	_____
TOTAL DIRECT EXPENSES				3032.85	_____
FIXED EXPENSES					
Implements	acre	113.02	1.0000	113.02	_____
Tractors	acre	27.79	1.0000	27.79	_____
Irrigation Setup	acre	318.36	1.0000	318.36	_____
TOTAL FIXED EXPENSES				459.17	_____
TOTAL SPECIFIED EXPENSES				3492.02	_____

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

Table 19.C Estimated monthly income and expense flows per acre
 Watermelons, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIRECT EXPENSES												
FERTILIZER	52.50	0.00	45.62	228.10	136.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	85.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	20.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	29.36	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	106.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	232.40	0.00	0.00	861.40	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	768.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	6.31	52.13	56.75	40.70	169.60	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	3.48	12.58	4.08	6.12	9.92	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.24	6.02	20.28	30.43	11.53	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.16	0.21	18.24	3.71	2.19	3.88	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	53.66	11.24	1262.09	342.28	301.37	1062.21	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-53.66	-11.24	-1262.09	-342.28	-301.37	-1062.21	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-53.66	-64.90	-1326.99	-1669.27	-1970.64	-3032.85	-3032.85	-3032.85	-3032.85	-3032.85	-3032.85	-3032.85

Note: Cost of production estimates are based on 2014 input prices.

Fertilization decisions should be based on soil tests.

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

* Lease costs are based on hourly usage costs.

Table 19.D Breakeven price above total expenses and net returns for price/yield combinations, per acre
 Watermelons, irrigated
 8 ft row spacing, 12 gpm with 5,445 ft of drip tape, Mississippi, 2015

			-----BREAKEVEN PRICE-----										
Watermelons			12.43	13.15	13.97	14.94	16.08	17.46	19.13	21.23	23.92	27.51	32.54
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	cwt	-1551 -2010	-1479 -1939	-1397 -1856	-1300 -1759	-1186 -1645	-1048 -1508	-881 -1340	-671 -1131	-402 -861	-43 -502	459 0
60	120.00	cwt	-1350 -1809	-1264 -1723	-1164 -1624	-1048 -1508	-911 -1371	-747 -1206	-546 -1005	-294 -754	28 -430	459 0	1062 603
70	140.00	cwt	-1149 -1608	-1048 -1508	-932 -1392	-797 -1256	-637 -1096	-445 -904	-211 -670	82 -377	459 0	961 502	1665 1206
80	160.00	cwt	-948 -1407	-833 -1292	-700 -1160	-546 -1005	-363 -822	-144 -603	124 -335	459 0	890 430	1464 1005	2268 1809
90	180.00	cwt	-747 -1206	-618 -1077	-468 -928	-294 -754	-89 -548	157 -301	459 0	836 377	1320 861	1967 1508	2872 2413
100	200.00	cwt	-546 -1005	-402 -861	-236 -696	-43 -502	184 -274	459 0	794 335	1213 754	1751 1292	2470 2010	3475 3016
110	220.00	cwt	-345 -804	-187 -646	-4 -464	207 -251	459 0	760 301	1129 670	1590 1131	2182 1723	2972 2513	4078 3619
120	240.00	cwt	-144 -603	28 -430	227 -232	459 0	733 274	1062 603	1464 1005	1967 1508	2613 2154	3475 3016	4681 4222
130	260.00	cwt	56 -402	243 -215	459 0	710 251	1007 548	1364 904	1799 1340	2344 1885	3044 2585	3978 3518	5285 4826
140	280.00	cwt	258 -201	459 0	691 232	961 502	1281 822	1665 1206	2134 1675	2721 2262	3475 3016	4480 4021	5888 5429
150	300.00	cwt	459 0	674 215	923 464	1213 754	1555 1096	1967 1508	2470 2010	3098 2639	3906 3447	4983 4524	6491 6032

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2014 input prices.

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2015

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)CB	2WD 50 hp	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor (40-59hp)CB	MFWD 50 hp	38,850	600	8	2.57	12.55	8.23	1.21	21.99	7.05	29.05
Tractor (40-59hp)RB	2WD 50 hp	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor (40-59hp)RB	MFWD 50 hp	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor (60-89hp)CB	2WD 75 hp	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor (60-89hp)CB	MFWD 75 hp	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor (60-89hp)RB	2WD 75 hp	35,100	600	8	3.86	12.55	12.35	1.09	26.00	6.37	32.37
Tractor (60-89hp)RB	MFWD 75 hp	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor (120-139hp)CB	MFWD 130	114,100	600	8	6.69	12.55	21.41	3.56	37.52	20.72	58.24
Tractor (160-179hp)CB	MFWD 170	155,550	600	8	8.75	12.55	28.00	4.86	45.41	29.63	75.04
Utility Vehicle	600CC	6,380	200	8	0.50	12.55	1.70	0.99	15.24	3.81	19.06

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2015

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		33,500	1000	10	1.07	2.220	27.86	5.46	1.41	34.73	8.18	42.92
Sprayer 110 gal	30' 47hp	44,000	350	6	2.14	0.035	0.61	0.24	0.11	0.96	0.66	1.63
Sprayer (300-450GAL)	60'	174,000	350	8	5.66	0.017	0.30	0.31	0.16	0.79	1.04	1.84
Truck	1 ton +	39,000	780	5	0.72	1.730	21.71	3.98	1.21	26.90	14.96	41.86
Truck	1/2 ton	27,000	1040	5	1.36	2.310	28.99	10.68	1.79	41.47	10.37	51.84
Utility Vehicle	600 CC	6,380	200	5	0.50	0.250	3.13	0.42	0.39	3.96	1.37	5.34
Utility Vehicle	800CC	10,400	200	8	0.70	0.249	3.13	0.59	0.40	4.13	1.55	5.69

Notes:

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

Total Direct: Does not include interest on operating capital.

Appendix Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015

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-----							
Bd Shaper Cucumber	Bed 4'cntr	2WD 75 hp	2,390	81	16	1.617	20.30	19.98	1.43	1.77	43.49	3.89	10.31	57.69
Bd Shaper Melons	Bed 8'cntr	2WD 75 hp	2,390	40	16	0.808	10.15	9.99	1.44	0.88	22.47	3.94	5.15	31.57
Bd Shaper Squash	Bed 5'cntr	2WD 75 hp	2,390	65	16	1.294	16.24	15.98	1.42	1.41	35.07	3.87	8.24	47.20
Bd Shaper Tomato	Bed 6'cntr	2WD 75 hp	2,390	54	16	1.078	13.53	13.32	1.43	1.18	29.47	3.89	6.87	40.23
Bd Shaper/LayCucumbe	Bed 4'cntr	2WD 75 hp	4,510	81	16	1.617	36.26	19.98	2.70	1.77	60.72	7.34	10.31	78.38
Bd Shaper/LayMelon	Bed 8'cntr	2WD 75 hp	4,510	40	16	0.808	18.13	9.99	2.73	0.88	31.74	7.43	5.15	44.34
Bd Shaper/LaySquash	Bed 5'cntr	2WD 75 hp	4,510	65	16	1.294	29.01	15.98	2.69	1.41	49.11	7.32	8.24	64.68
Bd Shaper/LayTomato	Bed 6'cntr	2WD 75 hp	4,510	54	16	1.078	24.17	13.32	2.70	1.18	41.38	7.34	6.87	55.60
Bd Shaper3XCucumber	Bed 4'cntr	2WD 75 hp	6,070	81	16	1.617	36.26	19.98	3.63	1.77	61.66	9.77	10.31	81.75
Bd Shaper3XMelon	Bed 8'cntr	2WD 75 hp	6,070	40	16	0.808	18.13	9.99	3.68	0.88	32.69	9.89	5.15	47.75
Bd Shaper3XSquash	Bed 5'cntr	2WD 75 hp	6,070	65	16	1.294	29.01	15.98	3.62	1.41	50.04	9.74	8.24	68.04
Bd Shaper3XTomato	Bed 6'cntr	2WD 75 hp	6,070	54	16	1.078	24.17	13.32	3.63	1.18	42.32	9.77	6.87	58.97
BS, L,T,Fung BPepper	Bed 6'cntr	2WD 75 hp	7,090	54	16	1.078	45.46	13.32	4.24	1.18	64.21	11.54	6.87	82.63
BS, Lay/Tape BPepper	Bed 6'cntr	2WD 75 hp	4,810	54	16	1.078	13.53	13.32	2.88	1.18	30.92	7.83	6.87	45.62
BS, Lay/Tape/Melon	Bed 8'cntr	2WD 75 hp	4,810	40	16	0.808	10.15	9.99	2.91	0.88	23.94	7.93	5.15	37.03
BS, Lay/Tape/Pumpkin	Bed 8'cntr	2WD 75 hp	4,810	40	16	0.080	1.01	0.99	0.29	0.08	2.39	0.79	0.51	3.70
BS, Lay/Tape/Squash	Bed 5'cntr	2WD 75 hp	4,810	65	16	1.294	16.24	15.98	2.87	1.41	36.51	7.80	8.24	52.57
BS, Lay/Tape/Tomato	Bed 6'cntr	2WD 75 hp	4,810	54	16	1.078	13.53	13.32	2.88	1.18	30.92	7.83	6.87	45.62
BS,Lay/Tape/Cucumber	Bed 4'cntr	2WD 75 hp	4,810	81	16	1.617	20.30	19.98	2.88	1.77	44.94	7.83	10.31	63.08
Chisel Plow	7'	2WD 75 hp	4,400	150	12	0.220	2.76	2.72	0.35	0.24	6.07	0.58	1.40	8.06
Chisel Plow Folding	16'	MFWD 170	22,500	150	12	0.116	1.46	3.26	0.94	0.56	6.24	1.57	3.45	11.28
Cult - Rolling	2-Row	2WD 75 hp	4,640	47	27	0.310	3.89	3.83	0.45	0.34	8.53	1.88	1.98	12.39
Cult - Rolling	4-Row	2WD 75 hp	7,190	25	27	0.165	2.07	2.04	0.70	0.18	5.00	2.91	1.05	8.97
Cult - Rolling+Fert	2-Row	2WD 75 hp	7,990	31	27	0.310	3.89	3.83	1.18	0.34	9.26	4.91	1.98	16.15
Cult - Rolling+Fert	4-Row	2WD 75 hp	12,220	17	27	0.165	2.88	2.04	1.75	0.18	6.87	7.28	1.05	15.21
Cult - Rotary Hoe	12'	2WD 75 hp	5,490	32	27	0.214	2.69	2.65	0.54	0.23	6.13	2.26	1.36	9.76
Cult - Rotary Hoe	15'	2WD 75 hp	4,850	26	27	0.171	2.15	2.12	0.47	0.18	4.94	1.96	1.09	8.00
Cultipacker	12'	2WD 75 hp	4,130	300	12	0.124	1.56	1.53	0.12	0.13	3.35	0.16	0.79	4.30
Cultivate	1-Row	2WD 75 hp	1,300	110	27	0.589	7.39	7.27	0.10	0.64	15.42	0.42	3.75	19.60
Cultivate	2-Row	2WD 75 hp	1,400	59	27	0.312	3.92	3.86	0.10	0.34	8.23	0.45	1.99	10.68
Cultivate	4-Row	2WD 75 hp	1,520	29	10	0.155	1.94	1.91	0.32	0.17	4.35	0.82	0.98	6.17
Cultivate - Heavy	4R-38	2WD 50 hp	17,800	150	10	0.155	1.94	1.27	0.73	0.09	4.05	1.87	0.53	6.45
Cultivate - Heavy	8R-42	MFWD 130	27,800	150	10	0.073	0.92	1.57	0.54	0.26	3.31	1.39	1.52	6.22
Cultivate+App Herb	4-Row	2WD 75 hp	1,940	150	10	0.193	3.38	2.39	0.10	0.21	6.09	0.25	1.23	7.58
Cultivate+App Ins	2-Row	2WD 75 hp	1,840	150	10	0.390	6.83	4.82	0.19	0.42	12.27	0.48	2.49	15.25
Cultivate+App Ins	4-Row	2WD 75 hp	1,940	150	10	0.193	3.38	2.39	0.10	0.21	6.09	0.25	1.23	7.58
Cultivate+Sidedress	2-Row	2WD 75 hp	2,880	39	27	0.390	6.83	4.82	0.42	0.42	12.51	1.77	2.49	16.77
Cultivate+Sidedress	4-Row	2WD 75 hp	5,080	19	27	0.193	3.38	2.39	0.76	0.21	6.76	3.18	1.23	11.18
Disc Mower	10'	2WD 75 hp	10,850	200	8	0.206	2.58	2.54	1.39	0.22	6.76	1.51	1.31	9.59
Disk + Incorporate	10'	2WD 75 hp	13,800	200	10	0.206	3.60	2.54	0.85	0.22	7.23	1.45	1.31	10.00
Disk + Incorporate	14'	2WD 75 hp	27,800	200	10	0.147	2.57	1.81	1.22	0.16	5.78	2.08	0.93	8.81
Disk Bed	2-Row	2WD 75 hp	4,450	160	10	0.284	3.56	3.50	0.23	0.31	7.62	0.90	1.81	10.33
Disk Bed	4-Row	2WD 75 hp	7,820	160	10	0.140	1.76	1.74	0.27	0.15	3.94	0.70	0.89	5.54
Disk Bed (Hipper)	8R-40	MFWD 130	19,800	160	10	0.070	0.88	1.50	0.34	0.25	2.99	0.88	1.46	5.34
Disk Bed + Spray PD	8R-40	MFWD 130	25,700	160	10	0.070	0.88	1.50	0.45	0.25	3.09	1.15	1.46	5.71
Disk Bed +App Fert	4-Row	2WD 75 hp	11,400	160	10	0.140	2.46	1.74	0.40	0.15	4.76	1.02	0.89	6.68
Disk Harrow	10'	2WD 75 hp	7,860	180	10	0.198	2.48	2.44	0.43	0.21	5.58	0.88	1.26	7.73
Disk Harrow	14'	2WD 75 hp	21,800	180	10	0.141	1.77	1.74	0.85	0.15	4.54	1.74	0.90	7.19
Disk Harrow	24'	MFWD 170	42,600	180	10	0.082	1.03	2.31	0.97	0.40	4.73	1.99	2.44	9.17
Disk Harrow-Hvy Duty	5'	2WD 75 hp	1,900	180	10	0.412	5.17	5.09	0.21	0.45	10.94	0.44	2.62	14.01
Ditcher		2WD 50 hp	4,910	200	10	0.020	0.25	0.16	0.03	0.01	0.46	0.05	0.06	0.58
Fert-Cyclone Spin	750 lb	2WD 75 hp	1,390	50	8	0.084	1.05	1.03	0.08	0.09	2.27	0.31	0.53	3.13
Fert-Side Dresser	1R 3'	2WD 75 hp	3,800	42	10	0.846	10.61	10.45	2.29	0.92	24.29	8.74	5.39	38.43
Fert-Side Dresser	2R 6'	2WD 75 hp	4,560	21	10	0.423	5.30	5.22	2.75	0.46	13.75	10.48	2.69	26.94
Fert-Side Dresser	4R-40	2WD 75 hp	6,240	10	10	0.195	2.45	2.41	3.65	0.21	8.73	13.91	1.24	23.88
Fert-Sprd Pull Type	6'	2WD 75 hp	3,830	10	10	0.392	4.93	4.85	4.51	0.43	14.72	17.17	2.50	34.41
Fert-Sprd Pull Type	8'	2WD 75 hp	4,150	15	10	0.294	3.69	3.63	2.44	0.32	10.10	9.30	1.87	21.29
Fert-Sprd Pull Type	10'	2WD 75 hp	4,150	12	10	0.235	2.95	2.91	2.44	0.25	8.57	9.30	1.50	19.38
Fert-Sprd Pull Type	12'	2WD 75 hp	4,950	10	10	0.196	2.46	2.42	2.91	0.21	8.02	11.10	1.25	20.37
Front End Loader	.5yd	2WD 75 hp	5,690	100	10	0.600	7.53	7.41	1.02	0.65	16.62	4.03	3.82	24.48
Harvester,Swt.Potato	2 Row	MFWD 170	31,500	300	15	1.011	72.56	28.30	6.22	4.91	112.01	9.11	29.95	151.09
Mulch Lifter	1-Row	2WD 75 hp	2,230	29	30	0.589	7.39	7.27	0.15	0.64	15.47	2.48	3.75	21.71
Mule Train (Corn)	30'	MFWD 75 hp	69,900	12	25	0.200	85.41	2.47	11.65	0.24	99.78	68.10	1.43	169.33
Mule Train (corn)	30'	2WD 75 hp	69,900	12	25	0.500	213.54	6.17	29.12	0.54	249.39	170.27	3.18	422.85
Picker Beans/Peas	1-Row	2WD 75 hp	38,000	179	10	3.571	115.32	44.11	53.07	3.91	216.43	34.11	22.76	273.31
Picker Corn	1-Row	2WD 75 hp	45,000	42	10	0.840	10.54	10.38	27.01	0.92	48.85	40.51	5.35	94.73
Plastic Layer Melon	Bed 8'cntr	2WD 75 hp	2,070	40	16	0.808	10.15	9.99	1.25	0.88	22.28	3.41	5.15	30.85
Plastic Layer Squash	Bed 5'cntr	2WD 75 hp	2,070	65	16	1.294	16.24	15.98	2.06	1.41	35.70	3.36	8.24	47.31
Plastic Layer Tomato	Bed 6'cntr	2WD 75 hp	2,070	54	16	1.078	13.53	13.32	2.06	1.18	30.10	3.37	6.87	40.35
Plastic Lyr Cucumber	Bed 4'cntr	2WD 75 hp	2,070	81	16	1.617	20.30	19.98	2.06	1.77	44.12	3.37	10.31	57.80
Plntr - Vacuum	1-Row	2WD 75 hp	5,500	53	18	1.057	13.27	13.06	5.48	1.16	32.98	8.33	6.74	48.06

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (continued)

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total	
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost	
			dollars	hours	years	hr/ac	-----\$/acre-----								
Plntr - Vacuum	2-Row	2WD 75 hp	7,760	20	18	0.396	4.97	4.89	7.69	0.43	18.00	11.68	2.52	32.21	
Plntr - Vacuum	4-Row	2WD 75 hp	15,600	11	18	0.226	2.84	2.79	16.07	0.24	21.96	24.39	1.44	47.80	
Plntr - Vacuum+Ins	1-Row	2WD 75 hp	6,110	53	18	1.057	13.27	13.06	6.09	1.16	33.59	9.25	6.74	49.59	
Plntr - Vacuum+Ins	2R 30-40	2WD 75 hp	9,000	20	18	0.396	4.97	4.89	8.92	0.43	19.23	13.54	2.52	35.31	
Plntr - Vacuum+Ins	4R 30-40	2WD 75 hp	17,000	11	18	0.226	2.84	2.79	17.51	0.24	23.40	26.58	1.44	51.43	
Plntr - Vacuum+Ins	Bed 4'cntr	2WD 75 hp	6,110	40	18	0.793	9.95	9.79	6.05	0.87	26.68	9.19	5.05	40.93	
Plntr - Vacuum+Ins	Bed 5'cntr	2WD 75 hp	6,110	32	18	0.634	7.96	7.83	6.05	0.69	22.55	9.19	4.04	35.80	
Plntr - Vacuum+Ins	Bed 6'cntr	2WD 75 hp	6,110	26	18	0.528	6.63	6.53	6.21	0.58	19.96	9.43	3.37	32.76	
Plntr - Vacuum+Ins	Bed 8'cntr	2WD 75 hp	6,110	20	18	0.396	4.97	4.89	6.05	0.43	16.37	9.19	2.52	28.09	
Plntr/H2O Cucumber	1R 4'cntr	2WD 75 hp	2,390	129	17	2.578	108.69	31.84	2.38	2.82	145.75	3.69	16.43	165.88	
Plntr/H2O Cucumber	2R 4'cntr	2WD 75 hp	5,380	129	17	1.289	79.79	15.92	2.68	1.41	99.81	4.15	8.21	112.19	
Plntr/H2O Melon	1R 8'cntr	2WD 75 hp	2,490	64	17	0.645	27.19	7.96	1.25	0.70	37.13	1.94	4.11	43.18	
Plntr/H2O Melon	2R 8'cntr	2WD 75 hp	5,380	64	17	0.644	39.89	7.96	2.70	0.70	51.27	4.19	4.10	59.57	
Plntr/H2O Squash	1R 5'cntr	2WD 75 hp	2,490	103	17	2.062	86.95	25.47	2.49	2.26	117.18	3.85	13.14	134.19	
Plntr/H2O Squash	2R 5'cntr	2WD 75 hp	5,380	103	17	1.031	63.83	12.73	2.69	1.13	80.39	4.16	6.57	91.13	
Plntr/H2O Tomato	1R 6'cntr	2WD 75 hp	2,490	86	17	1.718	72.46	21.23	2.48	1.88	98.06	3.84	10.95	112.87	
Plntr/H2O Tomato	2R 6'cntr	2WD 75 hp	5,380	86	17	0.859	53.19	10.61	2.68	0.94	67.44	4.15	5.47	77.07	
Plntr/H2O Wheel	2-Row	2WD 75 hp	5,380	74	17	1.473	91.19	18.19	5.35	1.61	116.36	8.28	9.39	134.03	
Plntr/H2O/pnch/seed	1-Row	2WD 75 hp	4,900	129	17	2.578	57.80	31.84	4.89	2.82	97.37	7.57	16.43	121.38	
Plntr/H2O/pnch/seed	2R 18-60	2WD 75 hp	7,870	129	17	1.586	35.57	19.59	4.83	1.74	61.74	7.48	10.11	79.34	
Plntr/Transplanter-H2O	4R 36-48	2WD 75 hp	15,930	34	17	0.687	69.69	8.49	0.37	0.75	79.32	24.78	4.38	108.48	
Plntr/Transplanter	1-Row	2WD 75 hp	2,550	31	19	1.586	66.88	19.59	0.13	1.74	88.36	9.59	10.11	108.07	
Plntr/Transplanter	4R 36-48	2WD 75 hp	15,930	300	19	0.687	69.69	8.49	0.03	0.75	78.98	2.68	4.38	86.05	
Plntr/Transplanter	8R-42	MFWD 170	20,640	150	19	0.333	57.51	9.33	0.04	1.62	68.51	3.37	9.87	81.76	
Rotary Cutter	7'	2WD 75 hp	4,380	185	10	0.169	2.12	2.09	0.60	0.18	5.00	0.40	1.07	6.49	
Rotary Tiller	5'	2WD 75 hp	2,170	49	18	0.970	12.18	11.98	3.00	1.06	28.24	3.24	6.18	37.67	
Spray (Broadcast)	27'	2WD 75 hp	5,940	200	8	0.062	1.09	0.77	0.17	0.08	2.12	0.20	0.49	2.82	
Spray (Broadcast)	60'	MFWD 130	10,000	200	8	0.028	0.49	0.60	0.13	0.10	1.33	0.15	0.58	2.06	
Spray Boom	12/17'	2WD 75 hp	430	200	8	0.099	1.74	1.22	0.02	0.10	3.09	0.02	0.63	3.75	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	9,650	12	16	0.245	3.08	3.03	9.87	0.26	16.25	16.44	1.56	34.26	
Sprayer Air Blast	16' 200 ga	2WD 75 hp	13,800	12	16	0.245	3.08	3.03	14.11	0.26	20.50	23.51	1.56	45.58	
Stalk Shredder-Flail	15'	2WD 50 hp	19,900	185	10	0.110	1.39	0.91	0.47	0.06	2.84	1.36	0.38	4.59	
Sub-Soiler	1 shank	2WD 75 hp	890	54	23	1.078	13.53	13.32	0.53	1.18	28.57	1.19	6.87	36.63	
Sub-Soiler	2 shank	2WD 75 hp	1,670	20	23	0.404	5.07	4.99	1.01	0.44	11.52	2.26	2.57	16.37	
Take Up Reel (M&T)	1-Row	2WD 75 hp	2,480	42	10	0.588	7.38	7.26	1.04	0.64	16.33	3.99	3.74	24.08	
Take Up Reel (Mulch)	1-Row	2WD 75 hp	1,400	42	10	0.588	7.38	7.26	0.58	0.64	15.88	2.25	3.74	21.88	
Trailer - Snap Bean	16'	2WD 75 hp	2,080	179	15	3.571	80.07	44.11	2.21	3.91	130.32	3.56	22.76	156.65	
Trailer - Vegetables	16'	2WD 75 hp	2,080	200	15	0.090	2.01	1.11	0.04	0.09	3.27	0.08	0.57	3.93	
Trailer Utility	10'	2WD 50 hp	1,250	200	15	0.600	7.53	4.94	0.10	0.35	12.92	0.32	2.05	15.30	
Trailer Water	10'	2WD 50 hp	1,250	150	10	0.600	7.53	4.94	0.20	0.35	13.02	0.57	2.05	15.65	
Trailer(MuleTrn)Corn	16'	2WD 75 hp	2,080	12	15	0.229	7.39	2.83	2.11	0.25	12.60	3.41	1.46	17.47	
Trailer-Lima/B. Bean	16'	2WD 75 hp	2,080	179	15	3.571	80.07	44.11	2.21	3.91	130.32	3.56	22.76	156.65	
Trailer-Southern Pea	16'	2WD 75 hp	2,080	179	15	3.571	80.07	44.11	2.21	3.91	130.32	3.56	22.76	156.65	
Trailer-Sweet Potato	16'	MFWD 130	2,080	12	15	0.598	7.51	12.82	5.53	2.13	28.00	8.91	12.40	49.33	

Notes:

Notes:

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

Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
			Solicam DF	lb	27.75
ADJUVANT					
Crop Oil Conc. (Veg)	pt	4.60			
CUSTOM			Stinger	oz	3.81
Contract Plt BPepper	1000pl	13.75	Strategy	pt	10.24
Custom Apply Fert	acre	6.50	Surflan AS	qt	11.99
Custom Haul Swt. Pot	acre	70.00	Treflan 4D	pt	3.40
Custom Skid Loader-2	acre	13.63	Valor SX	oz	6.15
CustomHarvest Tomato	box	1.00	INSECTICIDE		
Fuel Skid Loader (2)	acre	7.10	Admire Pro	oz	2.95
Scouting Sweetpotato	acre	15.00	Agri-Mek 15EC	oz	0.97
Trapping	acre	1.00	Asana XL	oz	0.64
FERTILIZER			Assail 30 SG	oz	5.87
Amm Nitrate (34%)	cwt	24.00	Avaunt 30 WDG	oz	6.53
Boron (15G Sol)	lb	0.75	Belt	oz	6.95
Calcium Nitrate	lb	0.38	Brigade 2EC	oz	0.98
Fert 13-13-13	cwt	21.21	Brigade WSB	lb	22.20
Fert 15-30-15	lb	0.33	Coragen	oz	7.80
Fert 5-20-30+S+B	cwt	34.93	Gaucha 600	oz	5.80
Lime (Spread)	ton	35.00	Imidan 70 WSB	lb	10.88
Phosphorus(46% P205)	cwt	24.50	K-Pam HL	gal	10.35
Potash (60% K20)	cwt	23.60	Mustang Max	oz	1.60
FUNGICIDE			Oberon 2SC	oz	4.76
Blocker 10G	lb	1.50	Poncho	lbseed	0.73
Blocker 4F	pt	5.63	Provado 1.6	oz	1.03
Bravo Weather Stick	pt	4.43	Radiant 1SC	oz	6.20
Cabrio	oz	2.50	IRRIGATION SUPPLIES		
Captan 50 WP	lb	6.00	Adapter(Reg to Head)	1 1/2"	3.50
Dithane Rainshield	lb	2.75	Barb Lock Sleeve	1/4"	0.50
Headline EC	oz	3.62	Cost of PumpingWater	6" in	24.00
Kocide 2000	lb	6.90	Coupler	5/8"	0.45
Kocide 3000	lb	9.95	Drip Tape	roll	182.50
Manzate Prostick	lb	4.83	End Plug for Header	1 1/2"	2.50
Mertect 340-F	oz	2.96	Feeder Tube	ft	0.10
Pristine	oz	3.25	Fertigation System	each	125.00
Quadris	oz	2.86	Header Line 1 1/2"	ft	0.26
Ridomil Gold	oz	6.54	Hole Punch	1/4"	3.50
Terraclor 75WP	lb	6.89	Hose Clamp	1 1/2"	0.80
Tilt	oz	0.84	Pressure Regulator	12 PSI	31.50
Topsin 4.5L	oz	0.55	PVC Female Adaptor	1 1/2"	3.00
HERBICIDE			PVC Fitting (adpt)	1 1/2"	1.25
Accent DF 75%	oz	32.47	PVC Fitting (bush)	1 1/2"	2.00
Assure 1l	oz	0.74	Rural Water	ac-in	100.71
Atrazine 4L	pt	1.93	Transfer Barb	1/4"	0.20
Basagran	pt	11.88	Y Filter	1"	25.00
Bicep II Magnum	pt	10.97	OTHER		
Command 3ME	pt	19.06	1.75bu tub Bell Pepp	each	18.98
Dacthal Flowable	pt	19.88	5-Gal Bucket	each	3.95
Dual II Magnum	pt	14.50	Bin Repair	each	1.50
Dual Magnum	pt	13.49	Bin Sweetpotato20 bu	each	57.00
Eptam 7E	pt	6.13	Bins/Stacking 25bu	each	20.30
Fusilade DX	oz	1.14	Bins/Stacking 25bu	each	20.30
Glyphosate 3lbs a.e.	pt	2.25	Box Cabbage	each	2.45
Glyphosate 3lbs a.e.	oz	0.14	Box Sweetpotato	each	1.48
Glystar Plus	pt	2.25	Box Tomato	box	1.84
Goal 2XL	pt	10.00	Boxes-Waxed	each	1.60
Gramonone SL 2.0	oz	0.32	Bushel Box	each	1.54
Guardman Max	pt	6.93	Clean, grade, pack	box	2.40
Lorox 50 DF	lb	18.70	Clean, grade, pack	lb	0.01
Outlook	pt	16.88	Cooling Box - Greens	box	0.46
Permit 75DF	oz	19.73	Cooling Snap Beans	bu box	1.37
Poast 1.53	pt	11.95	CoolingBox S.Cabbage	box	0.46
Prefar 4E	pt	9.38	Crate Sweetpotato	each	8.00
Princep 4L	pt	3.03	Crates - Sweet Corn	each	2.25
Roundup Power Max	pt	3.25	Grd & Pack S.Cabbage	box	1.67
Roundup Power Max	oz	0.21	Hand Weeding Swt.Pot	acre	100.00
Roundup WeatherMax	pt	4.07	Harv.Labor S.Cabbage	box	1.61
Roundup WeatherMax	oz	0.27	Harvest Labor Melons	cwt	2.37
Sandea	oz	46.25	Harvest Labor Pepper	bu	0.83
Select MAX	oz	0.77			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Ice + Cooling	crate	1.29	Greens - Hybrid	lb	152.00
Ice + Cooling	box	1.38	Greens - OP	lb	12.11
Ice	cwt	13.00	Lima Bean - Hybrid	lb	4.82
Labor Clean up	acre	148.00	Mustard Seed - OP	lb	15.51
Labor(Packing)	each	0.85	Mustard Seed -Hybrid	lb	83.33
Marketing Fee	box	1.00	Okra - Hybrid	lb	205.00
Pallet Crates-1350lb	each	19.37	Okra - OP	lb	8.11
Plastic Mulch	roll	166.00	Pepper Plants	100plt	16.50
Plastic string	6000'	11.00	Peppers	lb	4863.00
Sacks - S Peas	each	0.41	Peppers - OP	lb	264.00
Soil Test	each	6.00	Pumpkin Seed Hybrid	lb	113.00
Soil Test Probe	each	75.00	Snap Beans - Hybrid	lb	8.12
Sweet Potato Broker	box	1.00	Southern Peas - OP	lb	3.96
Sweetpotato Storage	cwt	2.00	Squash - Hybrid	lb	210.00
Wood Stakes	100	2.08	Sweet Corn - Hybrid	lb	21.29
SEED/PLANTS			Sweetpotato Plants	thous	30.00
Broccoli - Hybrid	lb	1462.00	Tomato - Hybrid	lb	10369.00
Broccoli - Plants	thous	30.17	Tomato Plants-Hybrid	thous	194.00
Cabbage - Hybrid	lb	763.00	Turnip - Hybrid	lb	94.60
Cabbage Plants	thous	22.17	Turnip Seed - OP	lb	10.52
Collard Seed - OP	lb	10.30	Watermelon - Diploid	lb	613.00
Collard Seed -Hybrid	lb	278.00	Watermelon - OP	lb	35.90
Cucumber - Hybrid	lb	236.00	Watermelon -Tripliod	lb	2439.00
			Watermelon -Tripliod	thous	235.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2015

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.15
Gasoline	gal	2.00
INTEREST RATES		
Short-term	%	4.40
Intermediate-term	%	4.50

Appendix Table 6. Labor names, units and wage rates,
Mississippi, 2015

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.55
HARVEST LABOR	hour	9.87
PLANTING LABOR	hour	9.87
GRADE & PACK LABOR	hour	9.87
MARKETING LABOR	hour	9.87
HAND & STOR LABOR	hour	9.87
HAND LABOR	hour	9.87
FERTIGATION LABOR	hour	9.87
HARVEST & PACK LABOR	hour	9.87
HARVEST LABOR BEANS	hour	9.87
LABOR BEAN TRAILER	hour	9.87
GRD LABORPEAS	hour	9.87
LABOR S.PEA TRAILER	hour	9.87
LABOR CABGETRAILER	hour	9.87
LABOR MULCH CLEANUP	hour	9.87
GRD LABORLIMA BEANS	hour	9.87
GRD LABORS. BEANS	hour	9.87
SWEET POTATO LABOR	hour	10.00
SKID LOADER LABOR-2	hour	10.00

Appendix Table 7. Estimated costs per acre
 Drip tape irrigation system, 5 ft row spacing, 20 gpm
 with 8,712 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	125.00	1.0000	125.00	_____
Barb Lock Sleeve	1/4"	0.50	45.0000	22.50	_____
Transfer Barb	1/4"	0.20	45.0000	9.00	_____
Feeder Tube	ft	0.10	50.0000	5.00	_____
Header Line 1 1/2"	ft	0.26	300.0000	78.00	_____
Adapter(Reg to Head)	1 1/2"	3.50	1.0000	3.50	_____
End Plug for Header	1 1/2"	2.50	1.0000	2.50	_____
Hose Clamp	1 1/2"	0.80	2.0000	1.60	_____
Pressure Regulator	12 PSI	31.50	1.0000	31.50	_____
PVC Female Adaptor	1 1/2"	3.00	1.0000	3.00	_____
Y Filter	1"	25.00	1.0000	25.00	_____
PVC Fitting (bush)	1 1/2"	2.00	1.0000	2.00	_____
PVC Fitting (adpt)	1 1/2"	1.25	1.0000	1.25	_____
Hole Punch	1/4"	3.50	1.0000	3.50	_____
Coupler	5/8"	0.45	4.0000	1.80	_____

TOTAL DIRECT EXPENSES				315.15	_____
FIXED EXPENSES					

TOTAL FIXED EXPENSES				14.18	_____

TOTAL SPECIFIED EXPENSES				329.33	_____

Note: Cost of production estimates are based on 2014 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 \$329.33 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 8. Estimated costs per acre
 Drip tape irrigation system, 6 ft row spacing, 16 gpm
 with 7,260 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	125.00	1.0000	125.00	_____
Barb Lock Sleeve	1/4"	0.50	40.0000	20.00	_____
Transfer Barb	1/4"	0.20	40.0000	8.00	_____
Feeder Tube	ft	0.10	50.0000	5.00	_____
Header Line 1 1/2"	ft	0.26	300.0000	78.00	_____
Adapter(Reg to Head)	1 1/2"	3.50	1.0000	3.50	_____
End Plug for Header	1 1/2"	2.50	1.0000	2.50	_____
Hose Clamp	1 1/2"	0.80	2.0000	1.60	_____
Pressure Regulator	12 PSI	31.50	1.0000	31.50	_____
PVC Female Adaptor	1 1/2"	3.00	1.0000	3.00	_____
Y Filter	1"	25.00	1.0000	25.00	_____
PVC Fitting (bush)	1 1/2"	2.00	1.0000	2.00	_____
PVC Fitting (adpt)	1 1/2"	1.25	1.0000	1.25	_____
Hole Punch	1/4"	3.50	1.0000	3.50	_____
Coupler	5/8"	0.45	4.0000	1.80	_____

TOTAL DIRECT EXPENSES				311.65	_____
FIXED EXPENSES					

TOTAL FIXED EXPENSES				14.02	_____

TOTAL SPECIFIED EXPENSES				325.67	_____

Note: Cost of production estimates are based on 2014 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 \$325.67 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

Appendix Table 9. Estimated costs per acre
 Drip tape irrigation system, 8 ft row spacing, 12 gpm
 with 5,445 ft of drip tape, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	125.00	1.0000	125.00	_____
Barb Lock Sleeve	1/4"	0.50	30.0000	15.00	_____
Transfer Barb	1/4"	0.20	30.0000	6.00	_____
Feeder Tube	ft	0.10	50.0000	5.00	_____
Header Line 1 1/2"	ft	0.26	300.0000	78.00	_____
Adapter(Reg to Head)	1 1/2"	3.50	1.0000	3.50	_____
End Plug for Header	1 1/2"	2.50	1.0000	2.50	_____
Hose Clamp	1 1/2"	0.80	2.0000	1.60	_____
Pressure Regulator	12 PSI	31.50	1.0000	31.50	_____
PVC Female Adaptor	1 1/2"	3.00	1.0000	3.00	_____
Y Filter	1"	25.00	1.0000	25.00	_____
PVC Fitting (bush)	1 1/2"	2.00	1.0000	2.00	_____
PVC Fitting (adpt)	1 1/2"	1.25	1.0000	1.25	_____
Hole Punch	1/4"	3.50	1.0000	3.50	_____
Coupler	5/8"	0.45	4.0000	1.80	_____

TOTAL DIRECT EXPENSES				304.65	_____
FIXED EXPENSES					

TOTAL FIXED EXPENSES				13.71	_____

TOTAL SPECIFIED EXPENSES				318.36	_____

Note: Cost of production estimates are based on 2014 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 \$318.36 will appear in the budget to represent the annual ownership cost of these items. Additional irrigation inputs (such as rural water, drip tape, and plastic mulch) are not included in this table, but are listed as individual inputs within each irrigated enterprise budget.

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