

**TRADITIONAL  
VEGETABLES  
2018  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2017-9**

**December 2017**



## 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.

## Disclaimer

*The mention in this report of any specific commercial product does not imply its endorsement, recommendation, or favoring by MSU-ES, MAFES, or USDA over other products not named nor does the omission imply they are not satisfactory. References to commercial products in this publication are for budgeting purposes only. Please contact your local extension office or extension specialist for information about pest control and spray schedules.*

*The intent of this planning budget is that it be used as a guide. Make sure to adjust this budget based on the specific information from your operation.*

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# 2018 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 2017. (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, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Sep							0.3300	46.00	15.18	15.18
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Sep	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Oct	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Oct	0.67	0.52	0.08	0.30	0.08	1.14				2.71
Fert 13-13-13	cwt											9.0000	21.58	194.22	194.22
Disk Bed	4-Row	2WD 75 hp	0.140	2.00	Oct	2.25	1.76	0.62	1.64	0.28	3.81				10.08
BS, Lay/Tape BPepper	Bed 6'cntr	2WD 75 hp	1.078	1.00	Oct	8.61	6.71	2.75	7.80	1.07	14.57				40.44
Plastic Mulch	roll											1.8000	285.00	513.00	513.00
Drip Tape	roll											1.2000	173.70	208.44	208.44
Spray (Broadcast)	27'	2WD 75 hp	0.062	0.50	Nov	0.27	0.29	0.08	0.09	0.04	0.58				1.31
Goal 2XL	pt											1.2500	9.89	12.36	12.36
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.54	0.58	0.16	0.19	0.09	1.18				2.65
Gramoxone SL 2.0	oz											32.0000	0.15	4.80	4.80
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Mar	5.09	5.56	0.09	0.32	0.60	8.11				19.17
Pepper Plants	100plt											170.0000	11.04	1876.80	1876.80
Contract Plt BPepper	1000pl											17.0000	13.75	233.75	233.75
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	110.97	665.82	665.82
Fertigate CAN03/KN03				2.00	Mar										
FERTIGATION LABOR	hour									5.00	51.90				51.90
Calcium Nitrate	lb											100.0000	0.29	29.00	29.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.54	0.58	0.16	0.19	0.09	1.18				2.65
Acephate	lb											1.0000	7.43	7.43	7.43
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Quadris	oz											6.2000	2.14	13.27	13.27
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	51.90				51.90
Calcium Nitrate	lb											100.0000	0.29	29.00	29.00
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Apr	5.09	5.56	0.09	0.32	0.60	8.11				19.17
HAND LABOR	hour									15.00	155.70				155.70
Wood Stakes	100											36.0000	73.00	2628.00	2628.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.54	0.58	0.16	0.19	0.09	1.18				2.65
Quadris	oz											6.2000	2.14	13.27	13.27
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									5.00	51.90				51.90
Calcium Nitrate	lb											100.0000	0.29	29.00	29.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.54	0.58	0.16	0.19	0.09	1.18				2.65
Quadris	oz											6.2000	2.14	13.27	13.27
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	May	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Gramoxone SL 2.0	oz											32.0000	0.15	4.80	4.80

(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, 2018 (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-----				
Fertigate CAN03/KN03				2.00	May											
FERTIGATION LABOR	hour									5.00	51.90					51.90
Calcium Nitrate	lb											100.0000	0.29	29.00		29.00
1st Tying DB String				1.00	May											
HAND LABOR	hour									8.00	83.04					83.04
Plastic string	6000'											7.0000	10.50	73.50		73.50
Fertigate CAN03/KN03				2.00	May											
FERTIGATION LABOR	hour									5.00	51.90					51.90
Calcium Nitrate	lb											100.0000	0.29	29.00		29.00
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.54	0.58	0.16	0.19	0.09	1.18					2.65
Radiant 1SC	oz											8.0000	6.82	54.56		54.56
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	May	0.54	0.58	0.16	0.19	0.09	1.18					2.65
Mustang Max	oz											4.0000	1.34	5.36		5.36
2nd Tying DB String				1.00	Jun											
HAND LABOR	hour									5.00	51.90					51.90
Plastic string	6000'											5.0000	10.50	52.50		52.50
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Jun	1.24	0.97	0.33	0.87	0.15	2.10					5.51
Trailer Utility	10'	2WD 75 hp	0.600	1.00	Jun	5.09	5.56	0.09	0.32	0.60	8.11					19.17
HAND LABOR	hour									8.00	83.04					83.04
Harvest Labor Pepper	bu											1800.0000	0.90	1620.00		1620.00
1.75bu tub Bell Pepp	each											25.0000	27.75	693.75		693.75
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	830.40					830.40
Boxes-Waxed	each											1800.0000	1.82	3276.00		3276.00
Rotary Cutter	7'	2WD 75 hp	0.169	1.00	Jul	1.36	1.05	0.64	0.45	0.16	2.29					5.79
Take Up Reel (Mulch)	1-Row	2WD 75 hp	0.588	1.00	Jul	4.70	3.66	0.59	2.32	0.58	7.95					19.22
HAND LABOR	hour									12.00	124.56					124.56
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Jul	1.59	1.23	0.56	1.18	0.19	2.68					7.24
Irrigation Setup	acre				Mar							1.0000				311.46
TOTALS						43.93	40.02	8.20	19.63	158.65	1663.66			12678.08		14764.98
INTEREST ON OPERATING CAPITAL																204.70
UNALLOCATED LABOR																14.47
TOTAL SPECIFIED COST																14984.15

Note: Cost of production estimates are based on 2017 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, 2018

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	46.00	0.3300	15.18	_____
Fert 13-13-13	cwt	21.58	9.0000	194.22	_____
Calcium Nitrate	lb	0.29	500.0000	145.00	_____
FUNGICIDE					
Kocide 2000	lb	6.27	4.5000	28.21	_____
Quadris	oz	2.14	18.6000	39.80	_____
HERBICIDE					
Goal 2XL	pt	9.89	1.2500	12.36	_____
Gramoxone SL 2.0	oz	0.15	64.0000	9.60	_____
INSECTICIDE					
Acephate	lb	7.43	1.0000	7.43	_____
Radiant 1SC	oz	6.82	8.0000	54.56	_____
Mustang Max	oz	1.34	4.0000	5.36	_____
SEED/PLANTS					
Pepper Plants	100plt	11.04	170.0000	1876.80	_____
OTHER					
Plastic Mulch	roll	285.00	1.8000	513.00	_____
Wood Stakes	100	73.00	36.0000	2628.00	_____
Plastic string	6000'	10.50	12.0000	126.00	_____
Harvest Labor Pepper	bu	0.90	1800.0000	1620.00	_____
1.75bu tub Bell Pepp	each	27.75	25.0000	693.75	_____
Bins/Stacking 25bu	each	20.30	16.0000	324.80	_____
Boxes-Waxed	each	1.82	1800.0000	3276.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	1.2000	208.44	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	5.3534	72.37	_____
GRADE & PACK LABOR					
Special Labor	hour	10.38	80.0000	830.40	_____
HAND LABOR					
Special Labor	hour	10.38	48.0000	498.24	_____
Implements	hour	10.38	0.3006	3.15	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	25.0000	259.50	_____
UNALLOCATED LABOR	hour	13.51	1.0706	14.47	_____
DIESEL FUEL					
Tractors	gal	1.80	20.6664	37.24	_____
REPAIR & MAINTENANCE					
Implements	acre	8.20	1.0000	8.20	_____
Tractors	acre	6.69	1.0000	6.69	_____
INTEREST ON OP. CAP.	acre	204.70	1.0000	204.70	_____
TOTAL DIRECT EXPENSES				14613.04	_____
FIXED EXPENSES					
Implements	acre	19.63	1.0000	19.63	_____
Tractors	acre	40.02	1.0000	40.02	_____
Irrigation Setup	acre	311.46	1.0000	311.46	_____
TOTAL FIXED EXPENSES				371.11	_____
TOTAL SPECIFIED EXPENSES				14984.15	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	15.18	194.22	0.00	0.00	0.00	0.00	29.00	58.00	58.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.34	22.67	0.00	0.00	0.00
HERBICIDE	0.00	0.00	12.36	0.00	0.00	0.00	4.80	0.00	4.80	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.43	59.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	1876.80	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	513.00	0.00	0.00	0.00	0.00	0.00	2628.00	73.50	5967.05	0.00	0.00
IRRIGATION SUPPLIES	0.00	208.44	0.00	0.00	0.00	0.00	665.82	0.00	0.00	0.00	0.00	0.00
LABOR	3.22	26.64	0.66	0.00	0.00	0.00	62.98	271.93	195.04	977.59	140.07	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.38	11.41	0.22	0.00	0.00	0.00	4.61	5.05	2.67	5.25	6.65	0.00
REPAIR & MAINTENANCE	0.77	5.72	0.13	0.00	0.00	0.00	1.27	1.53	1.18	1.50	2.79	0.00
INTEREST ON OP. CAP.	0.89	37.97	0.48	0.00	0.00	0.00	57.00	47.78	4.95	55.04	0.59	0.00
TOTAL DIRECT EXPENSES	21.44	997.40	13.85	0.00	0.00	0.00	2936.03	3065.06	422.73	7006.43	150.10	0.00
NET INCOME	-21.44	-997.40	-13.85	0.00	0.00	0.00	-2936.03	-3065.06	-422.73	-7006.43	-150.10	0.00
NET INCOME TO DATE	-21.44	-1018.84	-1032.69	-1032.69	-1032.69	-1032.69	-3968.72	-7033.78	-7456.51	-14462.94	-14613.04	-14613.04

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Bell Pepper			6.46	6.72	7.03	7.39	7.81	8.32	8.94	9.72	10.71	12.04	13.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	900.00	Bu	-6328 -6699	-6089 -6460	-5813 -6184	-5491 -5862	-5110 -5481	-4653 -5024	-4095 -4466	-3397 -3768	-2500 -2871	-1303 -1674	371 0
60	1080.00	Bu	-5658 -6029	-5371 -5742	-5040 -5411	-4653 -5024	-4196 -4567	-3648 -4019	-2978 -3349	-2141 -2512	-1064 -1435	371 0	2380 2009
70	1260.00	Bu	-4988 -5359	-4653 -5024	-4267 -4638	-3816 -4187	-3283 -3654	-2643 -3014	-1862 -2233	-885 -1256	371 0	2046 1674	4390 4019
80	1440.00	Bu	-4318 -4689	-3935 -4306	-3494 -3865	-2978 -3349	-2369 -2740	-1638 -2009	-745 -1116	371 0	1806 1435	3720 3349	6400 6029
90	1620.00	Bu	-3648 -4019	-3217 -3589	-2721 -3092	-2141 -2512	-1456 -1827	-633 -1004	371 0	1627 1256	3242 2871	5395 5024	8410 8039
100	1800.00	Bu	-2978 -3349	-2500 -2871	-1947 -2319	-1303 -1674	-542 -913	371 0	1487 1116	2883 2512	4677 4306	7070 6699	10420 10049
110	1980.00	Bu	-2308 -2679	-1782 -2153	-1174 -1546	-466 -837	371 0	1376 1004	2604 2233	4139 3768	6113 5742	8745 8374	12430 12059
120	2160.00	Bu	-1638 -2009	-1064 -1435	-401 -773	371 0	1284 913	2380 2009	3720 3349	5395 5024	7549 7178	10420 10049	14440 14069
130	2340.00	Bu	-968 -1339	-346 -717	371 0	1208 837	2198 1827	3385 3014	4837 4466	6651 6280	8984 8613	12095 11724	16450 16079
140	2520.00	Bu	-298 -669	371 0	1144 773	2046 1674	3111 2740	4390 4019	5954 5582	7908 7537	10420 10049	13770 13399	18459 18088
150	2700.00	Bu	371 0	1088 717	1917 1546	2883 2512	4025 3654	5395 5024	7070 6699	9164 8793	11856 11485	15445 15074	20469 20098

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 2017 input prices.



Table 2.A Estimated resource use and costs for field operations, per acre  
 Broccoli, fall, fresh market  
 Mississippi, 2018

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	46.00	22.77	22.77	
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Aug	1.76	1.37	0.39	0.68	0.22	2.98				7.18	
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Aug	3.17	2.47	1.11	2.35	0.39	5.36				14.46	
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Aug	0.67	0.52	0.08	0.30	0.08	1.14				2.71	
Fert 13-13-13	cwt											8.0000	21.58	172.64	172.64	
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Aug	1.64	1.28	0.95	1.68	0.30	3.86				9.41	
Treflan	pt											1.5000	3.52	5.28	5.28	
Plntr/H2O Wheel	2-Row	2WD 75 hp	1.473	1.00	Aug	11.76	9.17	5.52	8.95	8.83	96.36				131.76	
PLANTING LABOR	hour									30.00	311.40				311.40	
Broccoli Plants	thous											18.0000	40.32	725.76	725.76	
Cultivate+App Ins	4-Row	2WD 75 hp	0.193	1.00	Aug	1.55	1.21	0.20	0.52	0.29	3.63				7.11	
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84	
Admire Pro	oz											8.0000	1.70	13.60	13.60	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32				34.38	
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84	
Radiant 1SC	oz											8.0000	6.82	54.56	54.56	
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Sep	1.55	1.21	0.84	3.70	0.29	3.63				10.93	
AMM Sulfate 33%	cwt											2.3000	22.50	51.75	51.75	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Sep	3.92	3.06	20.15	34.97	0.49	6.63				68.73	
Avaunt 30 WDG	oz											6.0000	6.89	41.34	41.34	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32				34.38	
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84	
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	1.96	1.53	10.08	17.49	0.24	3.32				34.38	
Radiant 1SC	oz											8.0000	6.82	54.56	54.56	
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Nov	0.72	0.56	0.05	0.08	0.18	2.15				3.56	
HARVEST & PACK LABOR	hour			1.00	Nov					125.00	1297.50				1297.50	
Boxes-Waxed	each											300.0000	1.82	546.00	546.00	
Ice + Cooling	box											300.0000	1.38	414.00	414.00	
TOTALS							32.62	25.44	59.53	105.70	166.83	1744.60			2131.78	4099.67
INTEREST ON OPERATING CAPITAL																34.75
UNALLOCATED LABOR																11.03
TOTAL SPECIFIED COST																4145.45

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.B Estimated costs per acre  
 Broccoli, fall, fresh market  
 Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	8.0000	172.64	_____
AMM Sulfate 33%	cwt	22.50	2.3000	51.75	_____
FUNGICIDE					
Bravo Weather Stick	pt	6.56	4.5000	29.52	_____
HERBICIDE					
Treflan	pt	3.52	1.5000	5.28	_____
INSECTICIDE					
Admire Pro	oz	1.70	8.0000	13.60	_____
Radiant 1SC	oz	6.82	16.0000	109.12	_____
Avaunt 30 WDG	oz	6.89	6.0000	41.34	_____
SEED/PLANTS					
Broccoli Plants	thous	40.32	18.0000	725.76	_____
OTHER					
Boxes-Waxed	each	1.82	300.0000	546.00	_____
Ice + Cooling	box	1.38	300.0000	414.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	4.0859	55.22	_____
PLANTING LABOR					
Special Labor	hour	10.38	30.0000	311.40	_____
HAND LABOR					
Implements	hour	10.38	7.7530	80.48	_____
HARVEST & PACK LABOR					
Special Labor	hour	10.38	125.0000	1297.50	_____
UNALLOCATED LABOR	hour	13.49	0.8171	11.03	_____
DIESEL FUEL					
Tractors	gal	1.80	15.7735	28.41	_____
REPAIR & MAINTENANCE					
Implements	acre	59.53	1.0000	59.53	_____
Tractors	acre	4.21	1.0000	4.21	_____
INTEREST ON OP. CAP.	acre	34.75	1.0000	34.75	_____
TOTAL DIRECT EXPENSES				4014.31	_____
FIXED EXPENSES					
Implements	acre	105.70	1.0000	105.70	_____
Tractors	acre	25.44	1.0000	25.44	_____
TOTAL FIXED EXPENSES				131.14	_____
TOTAL SPECIFIED EXPENSES				4145.45	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	172.64	51.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	9.84	19.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	13.60	95.90	54.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	725.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	0.00	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	431.69	20.07	3.98	1299.89	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	17.89	8.18	1.71	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	10.91	42.36	10.33	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.45	21.96	2.83	0.56	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.22	1409.57	240.77	71.14	2269.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.22	-1409.57	-240.77	-71.14	-2269.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.22	-1432.79	-1673.56	-1744.70	-4014.31	-4014.31	-4014.31	-4014.31	-4014.31	-4014.31	-4014.31	-4014.31

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Broccoli			10.28	10.78	11.37	12.05	12.85	13.81	14.99	16.46	18.36	20.88	24.42
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	211b	-1989 -2121	-1914 -2045	-1826 -1957	-1724 -1855	-1604 -1735	-1459 -1590	-1282 -1414	-1061 -1193	-777 -909	-399 -530	131 0
60	180.00	211b	-1777 -1908	-1686 -1818	-1582 -1713	-1459 -1590	-1315 -1446	-1141 -1272	-929 -1060	-664 -795	-323 -454	131 0	767 636
70	210.00	211b	-1565 -1696	-1459 -1590	-1337 -1468	-1194 -1325	-1025 -1156	-823 -954	-575 -707	-266 -397	131 0	661 530	1403 1272
80	240.00	211b	-1353 -1484	-1232 -1363	-1092 -1223	-929 -1060	-736 -867	-505 -636	-222 -353	131 0	585 454	1191 1060	2040 1908
90	270.00	211b	-1141 -1272	-1005 -1136	-847 -978	-664 -795	-447 -578	-187 -318	131 0	528 397	1040 909	1721 1590	2676 2545
100	300.00	211b	-929 -1060	-777 -909	-603 -734	-399 -530	-158 -289	131 0	484 353	926 795	1494 1363	2252 2121	3312 3181
110	330.00	211b	-717 -848	-550 -681	-358 -489	-133 -265	131 0	449 318	838 707	1324 1193	1949 1818	2782 2651	3949 3817
120	360.00	211b	-505 -636	-323 -454	-113 -244	131 0	420 289	767 636	1191 1060	1721 1590	2403 2272	3312 3181	4585 4454
130	390.00	211b	-293 -424	-96 -227	131 0	396 265	709 578	1085 954	1545 1414	2119 1988	2858 2727	3843 3711	5221 5090
140	420.00	211b	-80 -212	131 0	375 244	661 530	998 867	1403 1272	1898 1767	2517 2386	3312 3181	4373 4242	5858 5726
150	450.00	211b	131 0	358 227	620 489	926 795	1288 1156	1721 1590	2252 2121	2915 2783	3767 3636	4903 4772	6494 6363

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

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

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

Note: Cost of production estimates are based on 2017 input prices.

Table 3.A Estimated resource use and costs for field operations, per acre  
Cabbage, spring, hand harvest  
Mississippi, 2018

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	46.00	22.77	22.77
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.67	0.52	0.08	0.30	0.08	1.14				2.71
Fert 13-13-13	cwt											8.0000	21.58	172.64	172.64
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Feb	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Disk Bed	2-Row	2WD 75 hp	0.284	1.00	Feb	2.26	1.77	0.25	0.97	0.28	3.84				9.09
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											2.0000	3.52	7.04	7.04
Plntr/H2O Wheel	2-Row	2WD 75 hp	1.473	1.00	Feb	11.76	9.17	5.52	8.95	8.83	96.36				131.76
PLANTING LABOR	hour									30.00	311.40				311.40
Cabbage Plants	thous											13.2000	35.61	470.05	470.05
Cultivate	4-Row	2WD 75 hp	0.155	3.00	Mar	3.71	2.90	0.99	2.61	0.46	6.29				16.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Mar	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84
Kocide 2000	lb											2.0000	6.27	12.54	12.54
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Mar	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Radiant 1SC	oz											8.0000	6.82	54.56	54.56
Fert-Side Dresser	2R 6'	2WD 75 hp	0.423	1.00	Apr	3.38	2.63	2.82	11.06	0.42	5.72				25.61
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Radiant 1SC	oz											8.0000	6.82	54.56	54.56
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Avaunt 30 WDG	oz											3.0000	6.89	20.67	20.67
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Avaunt 30 WDG	oz											3.0000	6.89	20.67	20.67
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.72	0.56	0.05	0.08	0.18	2.15				3.56
Harv.Labor S.Cabbage	box			1.00	Jun							600.0000	1.75	1050.00	1050.00
Grd & Pack S.Cabbage	box			1.00	Jun							600.0000	1.81	1086.00	1086.00
Box Cabbage	each											600.0000	2.69	1614.00	1614.00
Marketing Fee	box			1.00	Jun							600.0000	1.00	600.00	600.00
CoolingBox S.Cabbage	box			1.00	Jun							600.0000	1.37	822.00	822.00
TOTALS						38.75	30.22	62.10	117.50	42.50	456.42			6062.34	6767.33
INTEREST ON OPERATING CAPITAL															46.57
UNALLOCATED LABOR															13.10
TOTAL SPECIFIED COST															6827.00

Note: Cost of production estimates are based on 2017 input prices.  
Fertilization decisions should be based on soil tests.

Table 3.B Estimated costs per acre  
Cabbage, spring, hand harvest  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	8.0000	172.64	_____
AMM Sulfate 33%	cwt	22.50	2.0000	45.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	6.56	1.5000	9.84	_____
Kocide 2000	lb	6.27	2.0000	12.54	_____
HERBICIDE					
Treflan	pt	3.52	2.0000	7.04	_____
INSECTICIDE					
Radiant 1SC	oz	6.82	16.0000	109.12	_____
Avaunt 30 WDG	oz	6.89	6.0000	41.34	_____
SEED/PLANTS					
Cabbage Plants	thous	35.61	13.2000	470.05	_____
OTHER					
Harv.Labor S.Cabbage	box	1.75	600.0000	1050.00	_____
Grd & Pack S.Cabbage	box	1.81	600.0000	1086.00	_____
Box Cabbage	each	2.69	600.0000	1614.00	_____
Marketing Fee	box	1.00	600.0000	600.00	_____
CoolingBox S.Cabbage	box	1.37	600.0000	822.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	4.8538	65.61	_____
PLANTING LABOR					
Special Labor	hour	10.38	30.0000	311.40	_____
HAND LABOR					
Implements	hour	10.38	7.6498	79.41	_____
UNALLOCATED LABOR	hour	13.49	0.9707	13.10	_____
DIESEL FUEL					
Tractors	gal	1.80	18.7377	33.75	_____
REPAIR & MAINTENANCE					
Implements	acre	62.10	1.0000	62.10	_____
Tractors	acre	5.00	1.0000	5.00	_____
INTEREST ON OP. CAP.	acre	46.57	1.0000	46.57	_____
				-----	
TOTAL DIRECT EXPENSES				6679.28	_____
FIXED EXPENSES					
Implements	acre	117.50	1.0000	117.50	_____
Tractors	acre	30.22	1.0000	30.22	_____
				-----	
TOTAL FIXED EXPENSES				147.72	_____
				-----	
TOTAL SPECIFIED EXPENSES				6827.00	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	172.64	22.50	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	22.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	7.04	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	54.56	95.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	470.05	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	5172.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	428.67	15.68	10.84	11.94	2.39	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	17.05	6.29	4.65	5.13	0.63	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	9.54	12.84	13.59	30.99	0.14	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.54	21.87	1.26	1.27	1.14	20.49	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.31	1126.86	80.95	107.41	145.10	5195.65	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.31	-1126.86	-80.95	-107.41	-145.10	-5195.65	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.31	-1150.17	-1231.12	-1338.53	-1483.63	-6679.28	-6679.28	-6679.28	-6679.28	-6679.28	-6679.28	-6679.28

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Cabbage			10.47	10.59	10.74	10.92	11.13	11.37	11.68	12.05	12.54	13.19	14.10
PERCENT	YIELD	UNIT	-----dollars-----										
50	300.00	50lb	-941 -1089	-903 -1050	-858 -1005	-805 -953	-743 -891	-669 -817	-578 -726	-465 -612	-319 -467	-124 -272	147 0
60	360.00	50lb	-832 -980	-786 -934	-732 -880	-669 -817	-595 -742	-506 -653	-397 -544	-260 -408	-85 -233	147 0	474 326
70	420.00	50lb	-724 -871	-669 -817	-606 -754	-533 -681	-446 -594	-342 -490	-215 -363	-56 -204	147 0	420 272	801 653
80	480.00	50lb	-615 -762	-552 -700	-480 -628	-397 -544	-298 -445	-179 -326	-33 -181	147 0	381 233	692 544	1128 980
90	540.00	50lb	-506 -653	-436 -583	-355 -502	-260 -408	-149 -297	-15 -163	147 0	352 204	614 467	964 817	1455 1307
100	600.00	50lb	-397 -544	-319 -467	-229 -377	-124 -272	-0 -148	147 0	329 181	556 408	848 700	1237 1089	1782 1634
110	660.00	50lb	-288 -435	-202 -350	-103 -251	11 -136	147 0	311 163	510 363	760 612	1081 934	1509 1362	2109 1961
120	720.00	50lb	-179 -326	-85 -233	21 -125	147 0	296 148	474 326	692 544	964 817	1315 1167	1782 1634	2436 2288
130	780.00	50lb	-70 -217	30 -116	147 0	283 136	444 297	638 490	874 726	1169 1021	1548 1401	2054 1906	2762 2615
140	840.00	50lb	38 -108	147 0	273 125	420 272	593 445	801 653	1055 908	1373 1225	1782 1634	2327 2179	3089 2942
150	900.00	50lb	147 0	264 116	399 251	556 408	742 594	964 817	1237 1089	1577 1430	2015 1868	2599 2451	3416 3269

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 2017 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, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Mar	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Mar	0.67	0.52	0.08	0.30	0.08	1.14				2.71
Fert 13-13-13	cwt											6.0000	21.58	129.48	129.48
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Apr	1.64	1.28	0.95	1.68	0.30	3.86				9.41
Admire Pro	oz											8.0000	1.70	13.60	13.60
BS,Lay/Tape/Cucumber	Bed 4'cntr	2WD 75 hp	1.617	1.00	Apr	12.91	10.07	2.75	7.80	1.61	21.85				55.38
Plastic Mulch	roll											2.2000	285.00	627.00	627.00
Drip Tape	roll											1.5000	173.70	260.55	260.55
Plntr/H2O Cucumber	1R 4'cntr	2WD 75 hp	2.578	1.00	Apr	20.58	16.05	2.56	4.14	10.31	115.11				158.44
Cucumber - Hybrid	lb											3.0000	194.00	582.00	582.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	110.97	665.82	665.82
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											50.0000	0.29	14.50	14.50
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Apr	0.50	0.39	0.16	0.19	0.09	1.18				2.42
Sandea	oz											0.5000	39.90	19.95	19.95
Select MAX	oz											6.0000	0.79	4.74	4.74
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											50.0000	0.29	14.50	14.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84
Mustang Max	oz											4.0000	1.34	5.36	5.36
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											50.0000	0.29	14.50	14.50
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Fertigate CAN03/KN03				1.00	Jun										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											3.0000	6.56	19.68	19.68
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.72	0.56	0.05	0.08	0.18	2.15				3.56

(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, 2018 (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	1245.60				1245.60
5-Gal Bucket	each											200.0000	4.00	800.00	800.00
Labor(Packing)	each											300.0000	1.00	300.00	300.00
Boxes-Waxed	each											300.0000	1.82	546.00	546.00
Plastic Clean Up				1.00	Jun										
Mulch Lifter	1-Row	2WD 75 hp	0.589			4.70	3.67	0.15	2.67	0.58	7.96				19.15
Labor Clean up	acre											1.0000	160.00	160.00	160.00
Irrigation Setup	acre				Apr							1.0000			315.50
TOTALS						54.87	42.79	58.05	106.17	142.83	1504.15			4245.35	6326.88
INTEREST ON OPERATING CAPITAL															45.04
UNALLOCATED LABOR															18.57
TOTAL SPECIFIED COST															6390.49

Note: Cost of production estimates are based on 2017 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	6.0000	129.48	_____
Calcium Nitrate	lb	0.29	200.0000	58.00	_____
FUNGICIDE					
Bravo Weather Stick	pt	6.56	6.0000	39.36	_____
HERBICIDE					
Sandea	oz	39.90	0.5000	19.95	_____
Select MAX	oz	0.79	6.0000	4.74	_____
INSECTICIDE					
Admire Pro	oz	1.70	8.0000	13.60	_____
Mustang Max	oz	1.34	12.0000	16.08	_____
SEED/PLANTS					
Cucumber - Hybrid	lb	194.00	3.0000	582.00	_____
OTHER					
Plastic Mulch	roll	285.00	2.2000	627.00	_____
5-Gal Bucket	each	4.00	200.0000	800.00	_____
Labor(Packing)	each	1.00	300.0000	300.00	_____
Boxes-Waxed	each	1.82	300.0000	546.00	_____
Labor Clean up	acre	160.00	1.0000	160.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	1.5000	260.55	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	6.8745	92.90	_____
HARVEST LABOR					
Special Labor	hour	10.38	120.0000	1245.60	_____
HAND LABOR					
Implements	hour	10.38	7.9588	82.61	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	8.0000	83.04	_____
UNALLOCATED LABOR	hour	13.50	1.3749	18.57	_____
DIESEL FUEL					
Tractors	gal	1.80	26.5383	47.78	_____
REPAIR & MAINTENANCE					
Implements	acre	58.05	1.0000	58.05	_____
Tractors	acre	7.09	1.0000	7.09	_____
INTEREST ON OP. CAP.	acre	45.04	1.0000	45.04	_____
TOTAL DIRECT EXPENSES				5926.03	_____
FIXED EXPENSES					
Implements	acre	106.17	1.0000	106.17	_____
Tractors	acre	42.79	1.0000	42.79	_____
Irrigation Setup	acre	315.50	1.0000	315.50	_____
TOTAL FIXED EXPENSES				464.46	_____
TOTAL SPECIFIED EXPENSES				6390.49	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	152.25	14.50	29.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	9.84	9.84	19.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	24.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	18.96	5.36	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	582.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	627.00	0.00	1806.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	926.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	8.17	182.79	45.50	1286.26	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	3.49	34.44	1.71	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	1.56	31.69	10.33	21.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.62	29.12	0.79	12.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	168.09	2481.40	102.53	3174.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-168.09	-2481.40	-102.53	-3174.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-168.09	-2649.49	-2752.02	-5926.03	-5926.03	-5926.03	-5926.03	-5926.03	-5926.03	-5926.03	-5926.03	-5926.03

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Cucumbers			15.14	16.02	17.03	18.22	19.62	21.30	23.35	25.91	29.21	33.61	39.77
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	551b	-3229 -3694	-3097 -3562	-2945 -3409	-2767 -3232	-2557 -3022	-2306 -2770	-1998 -2462	-1613 -2077	-1118 -1583	-459 -923	464 0
60	180.00	551b	-2860 -3324	-2701 -3166	-2519 -2983	-2306 -2770	-2054 -2518	-1751 -2216	-1382 -1847	-920 -1385	-327 -791	464 0	1572 1108
70	210.00	551b	-2490 -2955	-2306 -2770	-2092 -2557	-1844 -2308	-1550 -2014	-1197 -1662	-766 -1231	-228 -692	464 0	1387 923	2680 2216
80	240.00	551b	-2121 -2585	-1910 -2374	-1666 -2131	-1382 -1847	-1046 -1511	-643 -1108	-151 -615	464 0	1256 791	2311 1847	3789 3324
90	270.00	551b	-1751 -2216	-1514 -1978	-1240 -1704	-920 -1385	-543 -1007	-89 -554	464 0	1157 692	2047 1583	3235 2770	4897 4432
100	300.00	551b	-1382 -1847	-1118 -1583	-814 -1278	-459 -923	-39 -503	464 0	1080 615	1849 1385	2839 2374	4158 3694	6005 5541
110	330.00	551b	-1013 -1477	-722 -1187	-388 -852	2 -461	464 0	1018 554	1695 1231	2542 2077	3630 3166	5082 4617	7113 6649
120	360.00	551b	-643 -1108	-327 -791	38 -426	464 0	968 503	1572 1108	2311 1847	3235 2770	4422 3957	6005 5541	8222 7757
130	390.00	551b	-274 -738	68 -395	464 0	926 461	1471 1007	2126 1662	2927 2462	3927 3463	5214 4749	6929 6464	9330 8865
140	420.00	551b	95 -369	464 0	890 426	1387 923	1975 1511	2680 2216	3542 3078	4620 4155	6005 5541	7852 7388	10438 9974
150	450.00	551b	464 0	860 395	1316 852	1849 1385	2479 2014	3235 2770	4158 3694	5312 4848	6797 6332	8776 8311	11546 11082

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 2017 input prices.

Table 5.A Estimated resource use and costs for field operations, per acre  
 Greens (turnip, mustard, collards), fresh market  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Aug	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Aug	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Aug	0.67	0.52	0.08	0.30	0.08	1.14				2.71
Fert 13-13-13	cwt											6.0000	21.58	129.48	129.48
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Aug	1.64	1.28	0.95	1.68	0.30	3.86				9.41
Treflan	pt											1.5000	3.52	5.28	5.28
Cultipacker	12'	2WD 75 hp	0.124	1.00	Aug	0.99	0.77	0.20	0.28	0.12	1.68				3.92
Plntr - Vacuum+Ins	2R 30-40	2WD 75 hp	0.396	1.00	Sep	3.17	2.47	9.91	15.76	0.39	5.36				36.67
Greens - Hybrid	lb											3.3000	119.00	392.70	392.70
Admire Pro	oz											8.0000	1.70	13.60	13.60
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Sep	0.67	0.52	0.08	0.30	0.08	1.14				2.71
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Quadris	oz											15.4000	2.14	32.96	32.96
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Avaunt 30 WDG	oz											3.0000	6.89	20.67	20.67
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Oct	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Radiant 1SC	oz											5.0000	6.82	34.10	34.10
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Oct	0.72	0.56	0.05	0.08	0.18	2.15				3.56
Bins/Stacking 25bu	each											20.0000	20.30	406.00	406.00
HARVEST & PACK LABOR	hour			1.00	Oct					175.00	1816.50				1816.50
Boxes-Waxed	each			1.00	Oct							500.0000	1.82	910.00	910.00
Cooling Box - Greens box												500.0000	1.37	685.00	685.00
TOTALS							20.63	16.08	53.09	91.39	177.77	1853.45		2689.82	4724.46
INTEREST ON OPERATING CAPITAL															22.65
UNALLOCATED LABOR															6.98
TOTAL SPECIFIED COST															4754.09

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.B Estimated costs per acre  
Greens (turnip, mustard, collards), fresh market  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	6.0000	129.48	_____
AMM Sulfate 33%	cwt	22.50	1.0000	22.50	_____
FUNGICIDE					
Kocide 2000	lb	6.27	1.5000	9.40	_____
Quadris	oz	2.14	15.4000	32.96	_____
HERBICIDE					
Treflan	pt	3.52	1.5000	5.28	_____
INSECTICIDE					
Admire Pro	oz	1.70	8.0000	13.60	_____
Mustang Max	oz	1.34	4.0000	5.36	_____
Avaunt 30 WDG	oz	6.89	3.0000	20.67	_____
Radiant 1SC	oz	6.82	5.0000	34.10	_____
SEED/PLANTS					
Greens - Hybrid	lb	119.00	3.3000	392.70	_____
OTHER					
Bins/Stacking 25bu	each	20.30	20.0000	406.00	_____
Boxes-Waxed	each	1.82	500.0000	910.00	_____
Cooling Box - Greens	box	1.37	500.0000	685.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	2.5848	34.95	_____
HAND LABOR					
Implements	hour	10.38	0.1931	2.00	_____
HARVEST & PACK LABOR					
Special Labor	hour	10.38	175.0000	1816.50	_____
UNALLOCATED LABOR	hour	13.50	0.5169	6.98	_____
DIESEL FUEL					
Tractors	gal	1.80	9.9783	17.97	_____
REPAIR & MAINTENANCE					
Implements	acre	53.09	1.0000	53.09	_____
Tractors	acre	2.66	1.0000	2.66	_____
INTEREST ON OP. CAP.	acre	22.65	1.0000	22.65	_____
TOTAL DIRECT EXPENSES				4646.62	_____
FIXED EXPENSES					
Implements	acre	91.39	1.0000	91.39	_____
Tractors	acre	16.08	1.0000	16.08	_____
TOTAL FIXED EXPENSES				107.47	_____
TOTAL SPECIFIED EXPENSES				4754.09	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	0.00	0.00	0.00	0.00	0.00	0.00	129.48	22.50	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.36	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	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	39.63	34.10	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	392.70	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	2001.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.82	19.74	1822.87	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	7.16	8.47	2.34	0.00	0.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	41.48	10.47	0.00	0.00
INTEREST ON OP. CAP.	0.90	0.00	0.00	0.00	0.00	0.00	0.00	1.95	4.49	15.31	0.00	0.00
TOTAL DIRECT EXPENSES	23.67	0.00	0.00	0.00	0.00	0.00	0.00	165.49	571.37	3886.09	0.00	0.00
NET INCOME	-23.67	0.00	0.00	0.00	0.00	0.00	0.00	-165.49	-571.37	-3886.09	0.00	0.00
NET INCOME TO DATE	-23.67	-23.67	-23.67	-23.67	-23.67	-23.67	-23.67	-189.16	-760.53	-4646.62	-4646.62	-4646.62

Note: Cost of production estimates are based on 2017 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, 2018

Greens (25lb)			-----BREAKEVEN PRICE-----										
			7.40	7.70	8.05	8.45	8.93	9.50	10.20	11.08	12.21	13.71	15.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	250.00	2doz	-1994 -2101	-1919 -2026	-1832 -1940	-1731 -1839	-1612 -1719	-1468 -1576	-1293 -1401	-1074 -1182	-793 -900	-417 -525	107 0
60	300.00	2doz	-1784 -1891	-1694 -1801	-1590 -1697	-1468 -1576	-1325 -1433	-1153 -1261	-943 -1050	-680 -788	-342 -450	107 0	738 630
70	350.00	2doz	-1574 -1681	-1468 -1576	-1347 -1455	-1206 -1313	-1038 -1146	-838 -945	-593 -700	-286 -394	107 0	632 525	1368 1261
80	400.00	2doz	-1363 -1471	-1243 -1351	-1105 -1212	-943 -1050	-752 -859	-523 -630	-242 -350	107 0	557 450	1158 1050	1999 1891
90	450.00	2doz	-1153 -1261	-1018 -1125	-862 -970	-680 -788	-465 -573	-207 -315	107 0	501 394	1008 900	1683 1576	2629 2522
100	500.00	2doz	-943 -1050	-793 -900	-620 -727	-417 -525	-179 -286	107 0	457 350	895 788	1458 1351	2209 2101	3260 3152
110	550.00	2doz	-733 -840	-568 -675	-377 -485	-155 -262	107 0	422 315	808 700	1289 1182	1909 1801	2734 2627	3890 3783
120	600.00	2doz	-523 -630	-342 -450	-135 -242	107 0	394 286	738 630	1158 1050	1683 1576	2359 2251	3260 3152	4521 4413
130	650.00	2doz	-312 -420	-117 -225	107 0	370 262	680 573	1053 945	1508 1401	2077 1970	2809 2702	3785 3678	5151 5044
140	700.00	2doz	-102 -210	107 0	349 242	632 525	967 859	1368 1261	1859 1751	2472 2364	3260 3152	4311 4203	5782 5675
150	750.00	2doz	107 0	332 225	592 485	895 788	1253 1146	1683 1576	2209 2101	2866 2758	3710 3603	4836 4729	6413 6305

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 2017 input prices.

Table 6.A Estimated resource use and costs for field operations, per acre  
 Lima/butter beans, hand harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Jan	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.45	1.19	0.21	2.63				6.28
AMM Sulfate 33%	cwt											1.5000	22.50	33.75	33.75
Phosphorus(46% P2O5)	cwt											1.5600	18.75	29.25	29.25
Potash (60% K2O)	cwt											1.2000	22.20	26.64	26.64
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											1.5000	3.52	5.28	5.28
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.17	2.47	7.41	11.78	0.39	5.36				30.19
Lima Bean - Hybrid	lb											30.0000	4.02	120.60	120.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
HARVEST LABOR	hour			1.00	Jun					136.00	1411.68				1411.68
5-Gal Bucket	each											40.0000	4.00	160.00	160.00
Sheller Lima Beans	each			1.00	Jun				6.20			0.0200			6.20
107/10 lb bg L/BBean	acre							0.25		9.00	93.42	1.0000			93.67
R.B.Convey LimaBeans	each			1.00	Jun				2.79			0.0200			2.79
Rot.PakTable L-Beans	each			1.00	Jun				2.62			0.0200			2.62
Application 1	acre							0.15		5.00	51.90	1.0000			52.05
Bag Sealer LimaBeans	each			1.00	Jun				39.67			0.0200			39.67
Application 1	acre							28.73		0.12	1.25	1.0000			29.98
TOTALS						16.63	12.96	69.22	122.80	152.46	1589.12			440.91	2251.64
INTEREST ON OPERATING CAPITAL															11.70
UNALLOCATED LABOR															5.61
TOTAL SPECIFIED COST															2268.95

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.B Estimated costs per acre  
Lima/butter beans, hand harvest  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
AMM Sulfate 33%	cwt	22.50	2.5000	56.25	_____
Phosphorus(46% P205)	cwt	18.75	1.5600	29.25	_____
Potash (60% K20)	cwt	22.20	1.2000	26.64	_____
FUNGICIDE					
Kocide 2000	lb	6.27	1.5000	9.40	_____
HERBICIDE					
Treflan	pt	3.52	1.5000	5.28	_____
INSECTICIDE					
Mustang Max	oz	1.34	8.0000	10.72	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	4.02	30.0000	120.60	_____
OTHER					
5-Gal Bucket	each	4.00	40.0000	160.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	2.0805	28.12	_____
HARVEST LABOR					
Special Labor	hour	10.38	136.0000	1411.68	_____
HAND LABOR					
Implements	hour	10.38	0.2643	2.75	_____
GRD LABORLIMA BEANS					
Bag Sealer LimaBeans	hour	10.38	0.1200	1.25	_____
Rot.PakTable L-Beans	hour	10.38	5.0000	51.90	_____
Sheller Lima Beans	hour	10.38	9.0000	93.42	_____
UNALLOCATED LABOR	hour	13.48	0.4161	5.61	_____
DIESEL FUEL					
Tractors	gal	1.80	8.0318	14.48	_____
REPAIR & MAINTENANCE					
Implements	acre	40.09	1.0000	40.09	_____
Tractors	acre	2.15	1.0000	2.15	_____
Bag Sealer LimaBeans	acre	28.73	1.0000	28.73	_____
Rot.PakTable L-Beans	acre	0.15	1.0000	0.15	_____
Sheller Lima Beans	acre	0.25	1.0000	0.25	_____
INTEREST ON OP. CAP.	acre	11.70	1.0000	11.70	_____
TOTAL DIRECT EXPENSES				2133.19	_____
FIXED EXPENSES					
Implements	acre	71.52	1.0000	71.52	_____
Tractors	acre	12.96	1.0000	12.96	_____
Bag Sealer LimaBeans	each	1983.52	0.0200	39.67	_____
R.B.Convey LimaBeans	each	139.54	0.0200	2.79	_____
Rot.PakTable L-Beans	each	130.87	0.0200	2.62	_____
Sheller Lima Beans	each	309.85	0.0200	6.20	_____
TOTAL FIXED EXPENSES				135.76	_____
TOTAL SPECIFIED EXPENSES				2268.95	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	0.00	89.64	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	5.28	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	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	120.60	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	160.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.58	0.00	6.23	10.58	16.09	1558.25	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	1.53	0.00	2.36	4.11	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.62	0.00	1.37	8.22	32.03	29.13	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.68	0.00	1.57	1.76	0.77	6.92	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	29.18	0.00	101.17	150.55	97.99	1754.30	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-29.18	0.00	-101.17	-150.55	-97.99	-1754.30	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-29.18	-29.18	-130.35	-280.90	-378.89	-2133.19	-2133.19	-2133.19	-2133.19	-2133.19	-2133.19	-2133.19

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			14.13	15.14	16.31	17.67	19.27	21.20	23.56	26.50	30.29	35.34	42.41
PERCENT	YIELD	UNIT	-----dollars-----										
50	53.50	101b	-1376 -1512	-1322 -1458	-1260 -1396	-1187 -1323	-1101 -1237	-998 -1134	-872 -1008	-715 -850	-512 -648	-242 -378	135 0
60	64.20	101b	-1225 -1361	-1160 -1296	-1085 -1221	-998 -1134	-895 -1031	-771 -907	-620 -756	-431 -567	-188 -324	135 0	589 453
70	74.90	101b	-1074 -1210	-998 -1134	-911 -1047	-809 -945	-689 -825	-544 -680	-368 -504	-147 -283	135 0	513 378	1043 907
80	85.60	101b	-923 -1058	-836 -972	-736 -872	-620 -756	-483 -618	-318 -453	-116 -252	135 0	459 324	892 756	1497 1361
90	96.30	101b	-771 -907	-674 -810	-562 -698	-431 -567	-276 -412	-91 -226	135 0	419 283	784 648	1270 1134	1950 1815
100	107.00	101b	-620 -756	-512 -648	-387 -523	-242 -378	-70 -206	135 0	387 252	702 567	1108 972	1648 1512	2404 2268
110	117.70	101b	-469 -605	-350 -486	-213 -349	-53 -189	135 0	362 226	639 504	986 850	1432 1296	2026 1890	2858 2722
120	128.40	101b	-318 -453	-188 -324	-38 -174	135 0	342 206	589 453	892 756	1270 1134	1756 1620	2404 2268	3312 3176
130	139.10	101b	-166 -302	-26 -162	135 0	324 189	548 412	816 680	1144 1008	1553 1418	2080 1944	2782 2647	3766 3630
140	149.80	101b	-15 -151	135 0	310 174	513 378	754 618	1043 907	1396 1260	1837 1701	2404 2268	3161 3025	4219 4084
150	160.50	101b	135 0	297 162	484 349	702 567	960 825	1270 1134	1648 1512	2121 1985	2728 2593	3539 3403	4673 4537

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2017 input prices.

Table 7.A Estimated resource use and costs for field operations, per acre  
Lima/butter beans, mechanical harvest  
Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Jan	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Mar	1.59	1.23	0.56	1.18	0.19	2.68				7.24
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.45	1.19	0.21	2.63				6.28
AMM Sulfate 33%	cwt											1.5000	22.50	33.75	33.75
Phosphorus(46% P205)	cwt											1.5600	18.75	29.25	29.25
Potash (60% K20)	cwt											1.2000	22.20	26.64	26.64
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											1.5000	3.52	5.28	5.28
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.17	2.47	7.41	11.78	0.39	5.36				30.19
Lima Bean - Hybrid	lb											30.0000	4.02	120.60	120.60
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Kocide 2000	lb											1.5000	6.27	9.40	9.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Mustang Max	oz											4.0000	1.34	5.36	5.36
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	Jun	28.51	22.23	60.06	42.90	10.71	122.39				276.09
Trailer-Lima/B. Bean	16'	2WD 75 hp	3.571	1.00	Jun	28.51	22.23	2.17	3.63	7.14	85.32				141.86
LABOR BEAN TRAILER	hour														37.16
Sheller Lima Beans	each			1.00	Jun				6.20			0.0200			6.20
65/10 lb bg L/BBean	acre							0.25		9.00	93.42	1.0000			93.67
R.B.Convey LimaBeans	each			1.00	Jun				2.79			0.0200			2.79
Rot.PakTable L-Beans	each			1.00	Jun				2.62			0.0200			2.62
Application 1	acre							0.15		5.00	51.90	1.0000			52.05
Bag Sealer LimaBeans	each			1.00	Jun				39.67			0.0200			39.67
Application 1	acre							28.73		0.12	1.25	1.0000			29.98
TOTALS						73.65	57.42	131.45	169.33	37.90	422.31			280.91	1135.07
INTEREST ON OPERATING CAPITAL															7.00
UNALLOCATED LABOR															24.91
TOTAL SPECIFIED COST															1166.98

Note: Cost of production estimates are based on 2017 input prices.  
Fertilization decisions should be based on soil tests.

Table 7.B Estimated costs per acre  
Lima/butter beans, mechanical harvest  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
AMM Sulfate 33%	cwt	22.50	2.5000	56.25	_____
Phosphorus(46% P205)	cwt	18.75	1.5600	29.25	_____
Potash (60% K20)	cwt	22.20	1.2000	26.64	_____
FUNGICIDE					
Kocide 2000	lb	6.27	1.5000	9.40	_____
HERBICIDE					
Treflan	pt	3.52	1.5000	5.28	_____
INSECTICIDE					
Mustang Max	oz	1.34	8.0000	10.72	_____
SEED/PLANTS					
Lima Bean - Hybrid	lb	4.02	30.0000	120.60	_____
OPERATOR LABOR					
Tractors	hour	13.51	9.2234	124.62	_____
HAND LABOR					
Implements	hour	10.38	10.9786	113.96	_____
LABOR BEAN TRAILER					
Special Labor	hour	10.38	3.5800	37.16	_____
GRD LABORLIMA BEANS					
Bag Sealer LimaBeans	hour	10.38	0.1200	1.25	_____
Rot.PakTable L-Beans	hour	10.38	5.0000	51.90	_____
Sheller Lima Beans	hour	10.38	9.0000	93.42	_____
UNALLOCATED LABOR	hour	13.50	1.8446	24.91	_____
DIESEL FUEL					
Tractors	gal	1.80	35.6061	64.12	_____
REPAIR & MAINTENANCE					
Implements	acre	102.32	1.0000	102.32	_____
Tractors	acre	9.53	1.0000	9.53	_____
Bag Sealer LimaBeans	acre	28.73	1.0000	28.73	_____
Rot.PakTable L-Beans	acre	0.15	1.0000	0.15	_____
Sheller Lima Beans	acre	0.25	1.0000	0.25	_____
INTEREST ON OP. CAP.	acre	7.00	1.0000	7.00	_____
				-----	
TOTAL DIRECT EXPENSES				940.23	_____
FIXED EXPENSES					
Implements	acre	118.05	1.0000	118.05	_____
Tractors	acre	57.42	1.0000	57.42	_____
Bag Sealer LimaBeans	each	1983.52	0.0200	39.67	_____
R.B.Convey LimaBeans	each	139.54	0.0200	2.79	_____
Rot.PakTable L-Beans	each	130.87	0.0200	2.62	_____
Sheller Lima Beans	each	309.85	0.0200	6.20	_____
				-----	
TOTAL FIXED EXPENSES				226.75	_____
				-----	
TOTAL SPECIFIED EXPENSES				1166.98	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	0.00	89.64	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	0.00	5.28	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	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	120.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.58	0.00	6.23	10.58	16.09	410.74	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	1.53	0.00	2.36	4.11	6.48	49.64	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.62	0.00	1.37	8.22	32.03	98.74	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.68	0.00	1.57	1.76	0.77	2.22	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	29.18	0.00	101.17	150.55	97.99	561.34	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-29.18	0.00	-101.17	-150.55	-97.99	-561.34	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-29.18	-29.18	-130.35	-280.90	-378.89	-940.23	-940.23	-940.23	-940.23	-940.23	-940.23	-940.23

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Lima/Butter Beans			11.96	12.82	13.81	14.96	16.32	17.95	19.94	22.44	25.64	29.92	35.90
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	101b	-551 -777	-523 -750	-491 -718	-453 -680	-409 -636	-356 -583	-291 -518	-210 -437	-106 -333	32 -194	226 0
60	39.00	101b	-473 -700	-440 -666	-401 -628	-356 -583	-303 -530	-240 -466	-162 -388	-64 -291	60 -166	226 0	460 233
70	45.50	101b	-395 -622	-356 -583	-311 -538	-259 -486	-197 -424	-123 -350	-32 -259	80 -145	226 0	421 194	693 466
80	52.00	101b	-317 -544	-273 -500	-222 -448	-162 -388	-91 -318	-6 -233	97 -129	226 0	393 166	615 388	926 700
90	58.50	101b	-240 -466	-190 -416	-132 -359	-64 -291	14 -212	110 -116	226 0	372 145	560 333	810 583	1160 933
100	65.00	101b	-162 -388	-106 -333	-42 -269	32 -194	120 -106	226 0	356 129	518 291	726 500	1004 777	1393 1166
110	71.50	101b	-84 -311	-23 -250	47 -179	129 -97	226 0	343 116	486 259	664 437	893 666	1199 972	1627 1400
120	78.00	101b	-6 -233	60 -166	136 -89	226 0	332 106	460 233	615 388	810 583	1060 833	1393 1166	1860 1633
130	84.50	101b	71 -155	143 -83	226 0	323 97	438 212	576 350	745 518	956 729	1227 1000	1588 1361	2093 1867
140	91.00	101b	148 -77	226 0	316 89	421 194	545 318	693 466	875 648	1101 875	1393 1166	1782 1555	2327 2100
150	97.50	101b	226 0	310 83	406 179	518 291	651 424	810 583	1004 777	1247 1021	1560 1333	1977 1750	2560 2333

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 2017 input prices.

Table 8.A Estimated resource use and costs for field operations, per acre  
Okra, fresh market  
Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			0.33	Mar							0.4950	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Mar	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Apr	1.13	0.88	0.45	1.19	0.21	2.63				6.28
AMM Sulfate 33%	cwt											0.7000	22.50	15.75	15.75
Phosphorus(46% P205)	cwt											1.5600	18.75	29.25	29.25
Potash (60% K20)	cwt											1.2000	22.20	26.64	26.64
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											1.5000	3.52	5.28	5.28
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Apr	3.17	2.47	7.41	11.78	0.39	5.36				30.19
Okra - Hybrid	lb											8.8000	205.00	1804.00	1804.00
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Cultivate	4-Row	2WD 75 hp	0.155	2.00	May	2.48	1.93	0.66	1.74	0.31	4.19				11.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	3.92	3.06	20.15	34.97	0.49	6.63				68.73
xxProvado 1.6	oz											7.6000	1.03	7.83	7.83
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	May	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											1.0000	22.50	22.50	22.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	3.00	Jun	5.88	4.59	30.23	52.46	0.73	9.95				103.11
Mustang Max	oz											12.0000	1.34	16.08	16.08
Trailer - Vegetables	16'	2WD 75 hp	0.090	12.00	Jun	8.62	6.72	0.59	0.98	2.16	25.80				42.71
HARVEST LABOR	hour			1.00	Jun					300.00	3114.00				3114.00
5-Gal Bucket	each											200.0000	4.00	800.00	800.00
GRADE & PACK LABOR	hour			1.00	Jun					30.00	311.40				311.40
Boxes-Waxed	each											400.0000	1.82	728.00	728.00
TOTALS						34.78	27.12	62.87	114.07	335.79	3499.19			3500.60	7238.63
INTEREST ON OPERATING CAPITAL															44.24
UNALLOCATED LABOR															11.76
TOTAL SPECIFIED COST															7294.63

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.B Estimated costs per acre  
Okra, fresh market  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
AMM Sulfate 33%	cwt	22.50	2.7000	60.75	_____
Phosphorus(46% P205)	cwt	18.75	1.5600	29.25	_____
Potash (60% K20)	cwt	22.20	1.2000	26.64	_____
HERBICIDE					
Treflan	pt	3.52	1.5000	5.28	_____
INSECTICIDE					
xxProvado 1.6	oz	1.03	7.6000	7.83	_____
Mustang Max	oz	1.34	12.0000	16.08	_____
SEED/PLANTS					
Okra - Hybrid	lb	205.00	8.8000	1804.00	_____
OTHER					
5-Gal Bucket	each	4.00	200.0000	800.00	_____
Boxes-Waxed	each	1.82	400.0000	728.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	4.3539	58.82	_____
HARVEST LABOR					
Special Labor	hour	10.38	300.0000	3114.00	_____
GRADE & PACK LABOR					
Special Labor	hour	10.38	30.0000	311.40	_____
HAND LABOR					
Implements	hour	10.38	1.4412	14.97	_____
UNALLOCATED LABOR	hour	13.50	0.8707	11.76	_____
DIESEL FUEL					
Tractors	gal	1.80	16.8080	30.27	_____
REPAIR & MAINTENANCE					
Implements	acre	62.87	1.0000	62.87	_____
Tractors	acre	4.51	1.0000	4.51	_____
INTEREST ON OP. CAP.	acre	44.24	1.0000	44.24	_____
TOTAL DIRECT EXPENSES				7153.44	_____
FIXED EXPENSES					
Implements	acre	114.07	1.0000	114.07	_____
Tractors	acre	27.12	1.0000	27.12	_____
TOTAL FIXED EXPENSES				141.19	_____
TOTAL SPECIFIED EXPENSES				7294.63	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	94.14	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	5.28	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	16.08	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	1528.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	10.01	17.74	17.14	3466.06	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	4.29	6.44	6.92	12.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	2.14	9.86	22.68	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.62	23.01	0.60	20.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	39.83	1960.47	77.67	5075.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-39.83	-1960.47	-77.67	-5075.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-39.83	-2000.30	-2077.97	-7153.44	-7153.44	-7153.44	-7153.44	-7153.44	-7153.44	-7153.44	-7153.44	-7153.44

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Okra (US Fancy)			12.76	13.54	14.44	15.50	16.74	18.23	20.05	22.33	25.26	29.17	34.64
PERCENT	YIELD	UNIT	-----dollars-----										
50	200.00	30lb	-4234 -4375	-4078 -4219	-3898 -4039	-3687 -3828	-3439 -3580	-3140 -3281	-2776 -2917	-2320 -2461	-1734 -1875	-952 -1093	141 0
60	240.00	30lb	-3797 -3938	-3609 -3750	-3393 -3534	-3140 -3281	-2842 -2983	-2484 -2625	-2046 -2187	-1499 -1640	-796 -937	141 0	1453 1312
70	280.00	30lb	-3359 -3500	-3140 -3281	-2888 -3029	-2593 -2734	-2245 -2386	-1827 -1969	-1317 -1458	-679 -820	141 0	1235 1093	2766 2625
80	320.00	30lb	-2921 -3063	-2671 -2813	-2383 -2524	-2046 -2187	-1648 -1790	-1171 -1312	-588 -729	141 0	1078 937	2329 2187	4079 3938
90	360.00	30lb	-2484 -2625	-2203 -2344	-1878 -2019	-1499 -1640	-1052 -1193	-515 -656	141 0	961 820	2016 1875	3423 3281	5392 5251
100	400.00	30lb	-2046 -2187	-1734 -1875	-1373 -1514	-952 -1093	-455 -596	141 0	870 729	1782 1640	2954 2813	4517 4375	6704 6563
110	440.00	30lb	-1609 -1750	-1265 -1406	-868 -1009	-405 -546	141 0	797 656	1599 1458	2602 2461	3891 3750	5610 5469	8017 7876
120	480.00	30lb	-1171 -1312	-796 -937	-363 -504	141 0	737 596	1453 1312	2329 2187	3423 3281	4829 4688	6704 6563	9330 9189
130	520.00	30lb	-733 -875	-327 -468	141 0	688 546	1334 1193	2110 1969	3058 2917	4243 4102	5767 5626	7798 7657	10643 10502
140	560.00	30lb	-296 -437	141 0	646 504	1235 1093	1931 1790	2766 2625	3787 3646	5064 4922	6704 6563	8892 8751	11955 11814
150	600.00	30lb	141 0	610 468	1150 1009	1782 1640	2528 2386	3423 3281	4517 4375	5884 5743	7642 7501	9986 9845	13268 13127

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 2017 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, 2018

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-----				
100/10 lb bg S. Peas				0.33	May											
Lime (Spread)	ton												0.1633	46.00	7.51	7.51
Chisel Plow	7'	2WD 75 hp	0.220	1.00	May	1.76	1.37	0.39	0.68	0.22	2.98					7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Jun	3.17	2.47	1.11	2.35	0.39	5.36					14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Jun	1.13	0.88	0.45	1.19	0.21	2.63					6.28
Fert 13-13-13	cwt												9.0000	21.58	194.22	194.22
BS, Lay/Tape/Pumpkin	Bed 8'cntr	2WD 75 hp	0.080	1.00	Jun	0.64	0.50	0.28	0.79	0.08	1.09					3.30
Plastic Mulch	roll												1.4000	285.00	399.00	399.00
Drip Tape	roll												0.9000	173.70	156.33	156.33
Plntr/H2O/pnch/seed	1-Row	2WD 75 hp	2.578	1.00	Jul	20.58	16.05	5.09	8.24	5.15	61.59					111.55
Pumpkin Seed Hybrid	lb												1.5000	109.00	163.50	163.50
Irrigation				1.00	Jul											
Rural Water	ac-in												6.0000	110.97	665.82	665.82
Fertigate CAN03/KN03				1.00	Jul											
FERTIGATION LABOR	hour									1.00	10.38					10.38
Calcium Nitrate	lb												25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Mustang Max	oz												4.0000	1.34	5.36	5.36
Disk Harrow	5'	2WD 75 hp	0.412	0.50	Jul	1.64	1.28	0.12	0.25	0.20	2.79					6.08
Fertigate CAN03/KN03				1.00	Jul											
FERTIGATION LABOR	hour									1.00	10.38					10.38
Calcium Nitrate	lb												25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Mustang Max	oz												4.0000	1.34	5.36	5.36
Fertigate CAN03/KN03				1.00	Jul											
FERTIGATION LABOR	hour									1.00	10.38					10.38
Calcium Nitrate	lb												25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Quadris	oz												11.0000	2.14	23.54	23.54
Bravo Weather Stick	pt												2.0000	6.56	13.12	13.12
Fertigate CAN03/KN03				3.00	Aug											
FERTIGATION LABOR	hour									3.00	31.14					31.14
Calcium Nitrate	lb												75.0000	0.29	21.75	21.75
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Avaunt 30 WDG	oz												6.0000	6.89	41.34	41.34
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Aug	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Bravo Weather Stick	pt												2.0000	6.56	13.12	13.12
Fertigate CAN03/KN03				1.00	Sep											
FERTIGATION LABOR	hour									1.00	10.38					10.38
Calcium Nitrate	lb												25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Brigade 2EC	oz												6.0000	0.74	4.44	4.44

(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, 2018 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Fertigate CAN03/KN03				3.00	Sep											
FERTIGATION LABOR	hour										3.00	31.14				31.14
Calcium Nitrate	lb												75.0000	0.29	21.75	21.75
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Sep	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Brigade 2EC	oz												6.0000	0.74	4.44	4.44
Quadris	oz												11.0000	2.14	23.54	23.54
Fertigate CAN03/KN03				1.00	Oct											
FERTIGATION LABOR	hour										1.00	10.38				10.38
Calcium Nitrate	lb												25.0000	0.29	7.25	7.25
Trailer - Vegetables	16'	2WD 75 hp	0.090	3.00	Oct	2.16	1.68	0.15	0.25	0.54	6.45					10.69
HARVEST LABOR	hour									90.00	934.20					934.20
Pallet Crates-1350lb each													123.0000	20.66	2541.18	2541.18
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Nov	4.70	3.67	0.15	2.67	0.58	7.96					19.15
LABOR MULCH CLEANUP	hour									15.00	155.70					155.70
Irrigation Setup	acre				Jul								1.0000			303.38
TOTALS						49.50	38.61	78.30	138.85	125.11	1318.17				4341.57	6268.38
INTEREST ON OPERATING CAPITAL																71.91
UNALLOCATED LABOR																16.74
TOTAL SPECIFIED COST																6357.03

Note: Cost of production estimates are based on 2017 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, Mississi

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.1633	7.51	_____
Fert 13-13-13	cwt	21.58	9.0000	194.22	_____
Calcium Nitrate	lb	0.29	275.0000	79.75	_____
FUNGICIDE					
Quadris	oz	2.14	22.0000	47.08	_____
Bravo Weather Stick	pt	6.56	4.0000	26.24	_____
INSECTICIDE					
Mustang Max	oz	1.34	8.0000	10.72	_____
Avaunt 30 WDG	oz	6.89	6.0000	41.34	_____
Brigade 2EC	oz	0.74	12.0000	8.88	_____
SEED/PLANTS					
Pumpkin Seed Hybrid	lb	109.00	1.5000	163.50	_____
OTHER					
Plastic Mulch	roll	285.00	1.4000	399.00	_____
Pallet Crates-1350lb	each	20.66	123.0000	2541.18	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	0.9000	156.33	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	6.2012	83.80	_____
HARVEST LABOR					
Special Labor	hour	10.38	90.0000	934.20	_____
HAND LABOR					
Implements	hour	10.38	2.9186	30.29	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	11.0000	114.18	_____
LABOR MULCH CLEANUP					
Special Labor	hour	10.38	15.0000	155.70	_____
UNALLOCATED LABOR					
Tractors	hour	13.49	1.2402	16.74	_____
DIESEL FUEL					
Tractors	gal	1.80	23.9393	43.11	_____
REPAIR & MAINTENANCE					
Implements	acre	78.30	1.0000	78.30	_____
Tractors	acre	6.39	1.0000	6.39	_____
INTEREST ON OP. CAP.	acre	71.91	1.0000	71.91	_____
TOTAL DIRECT EXPENSES				5876.19	_____
FIXED EXPENSES					
Implements	acre	138.85	1.0000	138.85	_____
Tractors	acre	38.61	1.0000	38.61	_____
Irrigation Setup	acre	303.38	1.0000	303.38	_____
TOTAL FIXED EXPENSES				480.84	_____
TOTAL SPECIFIED EXPENSES				6357.03	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	7.51	194.22	21.75	21.75	29.00	7.25	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	49.78	23.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	10.72	41.34	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	163.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	399.00	0.00	0.00	0.00	2541.18	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	156.33	665.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.58	10.75	111.01	43.08	49.48	951.76	165.25	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	1.53	4.30	22.76	5.13	3.42	1.88	4.09	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.62	2.48	28.75	30.99	20.66	0.43	0.76	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.37	18.21	20.29	3.02	1.60	27.74	0.68	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	13.61	785.29	1044.60	195.09	136.58	3530.24	170.78	0.00	0.00	0.00	0.00	0.00
NET INCOME	-13.61	-785.29	-1044.60	-195.09	-136.58	-3530.24	-170.78	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-13.61	-798.90	-1843.50	-2038.59	-2175.17	-5705.41	-5876.19	-5876.19	-5876.19	-5876.19	-5876.19	-5876.19

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Pumpkin			0.10	0.11	0.11	0.12	0.14	0.15	0.17	0.19	0.22	0.25	0.31
PERCENT	YIELD	UNIT	-----dollars-----										
50	20500.00	lb	-3757 -4238	-3605 -4086	-3431 -3912	-3227 -3708	-2986 -3467	-2697 -3178	-2344 -2825	-1903 -2383	-1335 -1816	-578 -1059	480 0
60	24600.00	lb	-3333 -3814	-3151 -3632	-2942 -3423	-2697 -3178	-2408 -2889	-2061 -2542	-1638 -2119	-1108 -1589	-427 -908	480 0	1752 1271
70	28700.00	lb	-2909 -3390	-2697 -3178	-2453 -2934	-2167 -2648	-1830 -2311	-1426 -1907	-931 -1412	-313 -794	480 0	1540 1059	3023 2542
80	32800.00	lb	-2485 -2966	-2243 -2724	-1964 -2445	-1638 -2119	-1252 -1733	-790 -1271	-225 -706	480 0	1388 908	2599 2119	4295 3814
90	36900.00	lb	-2061 -2542	-1789 -2270	-1475 -1956	-1108 -1589	-674 -1155	-154 -635	480 0	1275 794	2297 1816	3659 3178	5566 5085
100	41000.00	lb	-1638 -2119	-1335 -1816	-986 -1467	-578 -1059	-97 -577	480 0	1187 706	2070 1589	3205 2724	4718 4238	6837 6357
110	45100.00	lb	-1214 -1695	-881 -1362	-497 -978	-48 -529	480 0	1116 635	1893 1412	2864 2383	4113 3632	5778 5297	8109 7628
120	49200.00	lb	-790 -1271	-427 -908	-8 -489	480 0	1058 577	1752 1271	2599 2119	3659 3178	5021 4540	6837 6357	9380 8899
130	53300.00	lb	-366 -847	26 -454	480 0	1010 529	1636 1155	2387 1907	3306 2825	4453 3973	5929 5448	7897 7416	10652 10171
140	57400.00	lb	57 -423	480 0	969 489	1540 1059	2214 1733	3023 2542	4012 3531	5248 4767	6837 6357	8956 8476	11923 11442
150	61500.00	lb	480 0	934 454	1458 978	2070 1589	2792 2311	3659 3178	4718 4238	6043 5562	7746 7265	10016 9535	13194 12714

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 2017 input prices.

Table 10.A Estimated resource use and costs for field operations, per acre  
 Snap beans, fresh market, hand harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Feb	1.13	0.88	0.45	1.19	0.21	2.63				6.28
Fert 13-13-13	cwt											6.0000	21.58	129.48	129.48
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											2.0000	3.52	7.04	7.04
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Mar	3.17	2.47	7.41	11.78	0.39	5.36				30.19
Snap Beans - Hybrid	lb											70.0000	5.77	403.90	403.90
Blocker 10G	lb											13.7500	1.24	17.05	17.05
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Kocide 2000	lb											3.0000	6.27	18.81	18.81
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.84	3.70	0.29	3.63				10.93
AMM Sulfate 33%	cwt											0.7500	22.50	16.88	16.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	May	0.72	0.56	0.05	0.08	0.18	2.15				3.56
HARVEST LABOR	hour			1.00	May					150.00	1557.00				1557.00
Bushel Box	each			1.00	May							200.0000	1.50	300.00	300.00
Load Conveyor S Bean				1.00	May										
GRD LABORS. BEANS	hour									20.00	207.60				207.60
Cooling Snap Beans	bu box			1.00	May							200.0000	1.37	274.00	274.00
R.B.ConveySnapBeans	each			1.00	May				2.79			0.0200			2.79
Application 1	bu							79.68		40.00	415.20	200.0000			494.88
Rot.Pk Table S Beans	each			1.00	May				2.62			0.0200			2.62
Application 1	bu							7.58		2.00	20.76	200.0000			28.34
TOTALS						24.81	19.35	158.16	130.62	215.45	2246.19			1211.37	3790.50
INTEREST ON OPERATING CAPITAL															20.89
UNALLOCATED LABOR															8.39
TOTAL SPECIFIED COST															3819.78

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 10.B Estimated costs per acre  
 Snap beans, fresh market, hand harvest  
 Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	6.0000	129.48	_____
AMM Sulfate 33%	cwt	22.50	0.7500	16.88	_____
FUNGICIDE					
Blocker 10G	lb	1.24	13.7500	17.05	_____
Kocide 2000	lb	6.27	3.0000	18.81	_____
HERBICIDE					
Treflan	pt	3.52	2.0000	7.04	_____
INSECTICIDE					
Mustang Max	oz	1.34	16.0000	21.44	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	5.77	70.0000	403.90	_____
OTHER					
Bushel Box	each	1.50	200.0000	300.00	_____
Cooling Snap Beans	bu box	1.37	200.0000	274.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	3.1054	41.95	_____
HARVEST LABOR					
Special Labor	hour	10.38	150.0000	1557.00	_____
HAND LABOR					
Implements	hour	10.38	0.3543	3.68	_____
GRD LABORS. BEANS					
Special Labor	hour	10.38	20.0000	207.60	_____
R.B.ConveySnapBeans	hour	10.38	40.0000	415.20	_____
Rot.Pk Table S Beans	hour	10.38	2.0000	20.76	_____
UNALLOCATED LABOR	hour	13.50	0.6210	8.39	_____
DIESEL FUEL					
Tractors	gal	1.80	11.9884	21.59	_____
REPAIR & MAINTENANCE					
Implements	acre	70.90	1.0000	70.90	_____
Tractors	acre	3.22	1.0000	3.22	_____
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	20.89	1.0000	20.89	_____
TOTAL DIRECT EXPENSES				3669.81	_____
FIXED EXPENSES					
Implements	acre	125.21	1.0000	125.21	_____
Tractors	acre	19.35	1.0000	19.35	_____
R.B.ConveySnapBeans	each	139.54	0.0200	2.79	_____
Rot.Pk Table S Beans	each	130.87	0.0200	2.62	_____
TOTAL FIXED EXPENSES				149.97	_____
TOTAL SPECIFIED EXPENSES				3819.78	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	152.25	0.00	16.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	17.05	18.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	7.04	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	10.72	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	403.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	574.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	17.17	14.39	20.07	2202.95	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	6.62	6.17	8.17	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.14	28.48	42.36	87.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.94	5.71	0.91	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	189.16	486.42	117.92	2876.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-189.16	-486.42	-117.92	-2876.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-189.16	-675.58	-793.50	-3669.81	-3669.81	-3669.81	-3669.81	-3669.81	-3669.81	-3669.81	-3669.81	-3669.81

Note: Cost of production estimates are based on 2017 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, 2018

Snap Beans			-----BREAKEVEN PRICE-----										
			13.69	14.46	15.35	16.39	17.62	19.09	20.90	23.15	26.04	29.91	35.31
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	30lb	-2012 -2162	-1935 -2085	-1846 -1996	-1742 -1892	-1619 -1769	-1471 -1621	-1291 -1441	-1066 -1216	-776 -926	-390 -540	149 0
60	120.00	30lb	-1796 -1946	-1703 -1853	-1596 -1746	-1471 -1621	-1324 -1474	-1147 -1297	-931 -1081	-660 -810	-313 -463	149 0	798 648
70	140.00	30lb	-1579 -1729	-1471 -1621	-1347 -1497	-1201 -1351	-1029 -1179	-823 -973	-570 -720	-255 -405	149 0	690 540	1447 1297
80	160.00	30lb	-1363 -1513	-1240 -1390	-1097 -1247	-931 -1081	-734 -884	-498 -648	-210 -360	149 0	613 463	1231 1081	2096 1946
90	180.00	30lb	-1147 -1297	-1008 -1158	-848 -998	-660 -810	-439 -589	-174 -324	149 0	555 405	1076 926	1771 1621	2744 2594
100	200.00	30lb	-931 -1081	-776 -926	-598 -748	-390 -540	-144 -294	149 0	510 360	960 810	1540 1390	2312 2162	3393 3243
110	220.00	30lb	-714 -864	-545 -695	-349 -499	-120 -270	149 0	474 324	870 720	1366 1216	2003 1853	2852 2702	4042 3892
120	240.00	30lb	-498 -648	-313 -463	-99 -249	149 0	444 294	798 648	1231 1081	1771 1621	2466 2316	3393 3243	4690 4540
130	260.00	30lb	-282 -432	-81 -231	149 0	420 270	739 589	1123 973	1591 1441	2177 2027	2930 2780	3934 3784	5339 5189
140	280.00	30lb	-66 -216	149 0	399 249	690 540	1034 884	1447 1297	1951 1801	2582 2432	3393 3243	4474 4324	5988 5838
150	300.00	30lb	149 0	381 231	648 499	960 810	1329 1179	1771 1621	2312 2162	2988 2838	3856 3706	5015 4865	6636 6487

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 2017 input prices.

Table 11.A Estimated resource use and costs for field operations, per acre  
 Snap beans, fresh market, mechanical harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Feb	1.13	0.88	0.45	1.19	0.21	2.63				6.28
Fert 13-13-13	cwt											6.0000	21.58	129.48	129.48
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Feb	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											2.0000	3.52	7.04	7.04
Plntr - Vacuum	2-Row	2WD 75 hp	0.396	1.00	Mar	3.17	2.47	7.41	11.78	0.39	5.36				30.19
Snap Beans - Hybrid	lb											70.0000	5.77	403.90	403.90
Blocker 10G	lb											13.7500	1.24	17.05	17.05
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Mar	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Kocide 2000	lb											3.0000	6.27	18.81	18.81
Cultivate+Sidedress	2-Row	2WD 75 hp	0.390	1.00	Apr	3.11	2.43	0.46	2.04	0.58	7.31				15.35
AMM Sulfate 33%	cwt											0.7500	22.50	16.88	16.88
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	May	28.51	22.23	60.06	42.90	10.71	122.39				276.09
Bushel Box	each											150.0000	1.50	225.00	225.00
Trailer - Snap Bean	16'	2WD 75 hp	3.571	1.00	May	28.51	22.23	2.17	3.63	7.14	85.32				141.86
Load Conveyor S Bean				1.00	May										
GRD LABORS. BEANS	hour									20.00	207.60				207.60
Cooling Snap Beans	bu box			1.00	May							150.0000	1.37	205.50	205.50
R.B.ConveySnapBeans	each			1.00	May				2.79			0.0200			2.79
Application 1	bu							59.76		30.00	311.40	150.0000			371.16
Rot.Pk Table S Beans	each			1.00	May				2.62			0.0200			2.62
Application 1	bu							5.69		1.50	15.57	150.0000			21.26
TOTALS							82.67	64.47	198.15	175.41	72.93	789.44		1067.87	2378.01
INTEREST ON OPERATING CAPITAL															15.04
UNALLOCATED LABOR															27.99
TOTAL SPECIFIED COST															2421.04

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 11.B Estimated costs per acre  
 Snap beans, fresh market, mechanical harvest  
 Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	6.0000	129.48	_____
AMM Sulfate 33%	cwt	22.50	0.7500	16.88	_____
FUNGICIDE					
Blocker 10G	lb	1.24	13.7500	17.05	_____
Kocide 2000	lb	6.27	3.0000	18.81	_____
HERBICIDE					
Treflan	pt	3.52	2.0000	7.04	_____
INSECTICIDE					
Mustang Max	oz	1.34	16.0000	21.44	_____
SEED/PLANTS					
Snap Beans - Hybrid	lb	5.77	70.0000	403.90	_____
OTHER					
Bushel Box	each	1.50	150.0000	225.00	_____
Cooling Snap Beans	bu box	1.37	150.0000	205.50	_____
OPERATOR LABOR					
Tractors	hour	13.51	10.3551	139.89	_____
HAND LABOR					
Implements	hour	10.38	11.0770	114.98	_____
GRD LABORS. BEANS					
Special Labor	hour	10.38	20.0000	207.60	_____
R.B.ConveySnapBeans	hour	10.38	30.0000	311.40	_____
Rot.Pk Table S Beans	hour	10.38	1.5000	15.57	_____
UNALLOCATED LABOR	hour	13.51	2.0710	27.99	_____
DIESEL FUEL					
Tractors	gal	1.80	39.9749	71.96	_____
REPAIR & MAINTENANCE					
Implements	acre	132.70	1.0000	132.70	_____
Tractors	acre	10.71	1.0000	10.71	_____
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	15.04	1.0000	15.04	_____
TOTAL DIRECT EXPENSES				2181.16	_____
FIXED EXPENSES					
Implements	acre	170.00	1.0000	170.00	_____
Tractors	acre	64.47	1.0000	64.47	_____
R.B.ConveySnapBeans	each	139.54	0.0200	2.79	_____
Rot.Pk Table S Beans	each	130.87	0.0200	2.62	_____
TOTAL FIXED EXPENSES				239.88	_____
TOTAL SPECIFIED EXPENSES				2421.04	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	152.25	0.00	16.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	17.05	18.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	7.04	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	10.72	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	403.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	0.00	430.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	17.17	14.39	24.29	761.58	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	6.62	6.17	9.53	49.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	3.14	28.48	42.18	135.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	2.94	5.71	0.95	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	189.16	486.42	123.36	1382.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-189.16	-486.42	-123.36	-1382.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-189.16	-675.58	-798.94	-2181.16	-2181.16	-2181.16	-2181.16	-2181.16	-2181.16	-2181.16	-2181.16	-2181.16

Note: Cost of production estimates are based on 2017 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, 2018

Snap Beans			-----BREAKEVEN PRICE-----										
			11.72	12.35	13.08	13.93	14.93	16.14	17.61	19.45	21.82	24.97	29.39
PERCENT	YIELD	UNIT	-----dollars-----										
50	75.00	30lb	-1086 -1325	-1038 -1278	-984 -1223	-920 -1160	-844 -1084	-754 -994	-644 -883	-505 -745	-328 -568	-91 -331	239 0
60	90.00	30lb	-953 -1193	-896 -1136	-831 -1070	-754 -994	-664 -904	-555 -795	-423 -662	-257 -497	-44 -284	239 0	637 397
70	105.00	30lb	-820 -1060	-754 -994	-678 -917	-588 -828	-483 -723	-356 -596	-202 -441	-8 -248	239 0	571 331	1035 795
80	120.00	30lb	-688 -928	-612 -852	-525 -764	-423 -662	-302 -542	-157 -397	18 -220	239 0	524 284	902 662	1433 1193
90	135.00	30lb	-555 -795	-470 -710	-372 -611	-257 -497	-121 -361	40 -198	239 0	488 248	808 568	1234 994	1830 1591
100	150.00	30lb	-423 -662	-328 -568	-219 -458	-91 -331	59 -180	239 0	460 220	737 497	1092 852	1565 1325	2228 1988
110	165.00	30lb	-290 -530	-186 -426	-66 -305	74 -165	239 0	438 198	681 441	985 745	1376 1136	1897 1657	2626 2386
120	180.00	30lb	-157 -397	-44 -284	86 -152	239 0	420 180	637 397	902 662	1234 994	1660 1420	2228 1988	3024 2784
130	195.00	30lb	-25 -265	97 -142	239 0	405 165	601 361	836 596	1123 883	1482 1243	1944 1704	2560 2320	3422 3182
140	210.00	30lb	107 -132	239 0	392 152	571 331	782 542	1035 795	1344 1104	1731 1491	2228 1988	2891 2651	3819 3579
150	225.00	30lb	239 0	381 142	545 305	737 497	963 723	1234 994	1565 1325	1980 1740	2512 2272	3223 2983	4217 3977

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 2017 input prices.

Table 12.A Estimated resource use and costs for field operations, per acre  
 Southern peas, fresh market, hand harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Sub-Soiler	2 shank	2WD 75 hp	0.404	1.00	Feb	3.23	2.52	1.13	2.68	0.40	5.46				15.02
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.67	0.52	0.08	0.30	0.08	1.14				2.71
AMM Sulfate 33%	cwt											0.5000	22.50	11.25	11.25
Phosphorus(46% P205)	cwt											1.5600	18.75	29.25	29.25
Potash (60% K20)	cwt											1.2000	22.20	26.64	26.64
Disk Harrow	14'	2WD 75 hp	0.141	2.00	Mar	2.26	1.76	1.95	4.12	0.28	3.83				13.92
Disk Bed	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.31	0.82	0.14	1.90				5.04
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											0.5000	3.52	1.76	1.76
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Apr	1.80	1.41	17.41	27.68	0.22	3.06				51.36
Southern Peas - OP	lb											10.0000	4.55	45.50	45.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Cultivate	4-Row	2WD 75 hp	0.155	1.00	May	1.24	0.97	0.33	0.87	0.15	2.10				5.51
Trailer - Vegetables	16'	2WD 75 hp	0.090	3.00	May	2.16	1.68	0.15	0.25	0.54	6.45				10.69
HARVEST LABOR	hour			1.00	May					75.00	778.50				778.50
5-Gal Bucket	each											20.0000	4.00	80.00	80.00
Sheller S. Peas	each			1.00	May				6.20			0.0200			6.20
100/10 lb bg S. Peas	acre							0.25		6.00	62.28	1.0000			62.53
R.B.Convey S. Peas	each			1.00	May				2.79			0.0200			2.79
Rot.Pk.Table S Peas	each			1.00	May				2.62			0.0200			2.62
Application 1	acre							0.15		3.00	31.14	1.0000			31.29
Bag Sealer S. Peas	each			1.00	May				0.72			0.0200			0.72
Application 1	acre							0.52		0.10	1.04	1.0000			1.56
TOTALS						19.92	15.54	52.71	102.03	86.96	910.48			232.33	1333.01
INTEREST ON OPERATING CAPITAL															6.63
UNALLOCATED LABOR															6.74
TOTAL SPECIFIED COST															1346.38

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 12.B Estimated costs per acre  
 Southern peas, fresh market, hand harvest  
 Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
AMM Sulfate 33%	cwt	22.50	0.5000	11.25	_____
Phosphorus (46% P205)	cwt	18.75	1.5600	29.25	_____
Potash (60% K20)	cwt	22.20	1.2000	26.64	_____
HERBICIDE					
Treflan	pt	3.52	0.5000	1.76	_____
INSECTICIDE					
Brigade 2EC	oz	0.74	6.0000	4.44	_____
Mustang Max	oz	1.34	8.0000	10.72	_____
SEED/PLANTS					
Southern Peas - OP	lb	4.55	10.0000	45.50	_____
OTHER					
5-Gal Bucket	each	4.00	20.0000	80.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	2.4950	33.71	_____
HARVEST LABOR					
Special Labor	hour	10.38	75.0000	778.50	_____
HAND LABOR					
Implements	hour	10.38	0.3669	3.81	_____
GRD LABOR PEAS					
Rot.Pk.Table S Peas	hour	10.38	3.0000	31.14	_____
Bag Sealer S. Peas	hour	10.38	0.1000	1.04	_____
Sheller S. Peas	hour	10.38	6.0000	62.28	_____
UNALLOCATED LABOR	hour	13.50	0.4990	6.74	_____
DIESEL FUEL					
Tractors	gal	1.80	9.6319	17.34	_____
REPAIR & MAINTENANCE					
Implements	acre	51.79	1.0000	51.79	_____
Tractors	acre	2.58	1.0000	2.58	_____
Rot.Pk.Table S Peas	acre	0.15	1.0000	0.15	_____
Bag Sealer S. Peas	acre	0.52	1.0000	0.52	_____
Sheller S. Peas	acre	0.25	1.0000	0.25	_____
INTEREST ON OP. CAP.	acre	6.63	1.0000	6.63	_____
TOTAL DIRECT EXPENSES				1228.81	_____
FIXED EXPENSES					
Implements	acre	89.70	1.0000	89.70	_____
Tractors	acre	15.54	1.0000	15.54	_____
R.B.Convey S. Peas	each	139.54	0.0200	2.79	_____
Rot.Pk.Table S Peas	each	130.87	0.0200	2.62	_____
Bag Sealer S. Peas	each	36.17	0.0200	0.72	_____
Sheller S. Peas	each	309.85	0.0200	6.20	_____
TOTAL FIXED EXPENSES				117.57	_____
TOTAL SPECIFIED EXPENSES				1346.38	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	67.14	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	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.44	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	45.50	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	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.92	6.88	11.80	890.62	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	3.39	2.95	4.63	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.72	2.70	28.37	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.45	1.26	0.14	0.77	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.22	81.43	12.67	97.27	1014.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.22	-81.43	-12.67	-97.27	-1014.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.22	-104.65	-117.32	-214.59	-1228.81	-1228.81	-1228.81	-1228.81	-1228.81	-1228.81	-1228.81	-1228.81

Note: Cost of production estimates are based on 2017 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, 2018

Southern Peas			-----BREAKEVEN PRICE-----										
			8.97	9.61	10.35	11.21	12.23	13.46	14.95	16.82	19.23	22.43	26.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	50.00	101b	-780 -897	-747 -865	-710 -828	-667 -785	-616 -734	-555 -673	-480 -598	-387 -504	-267 -384	-106 -224	117 0
60	60.00	101b	-690 -807	-651 -769	-607 -724	-555 -673	-494 -611	-420 -538	-331 -448	-219 -336	-74 -192	117 0	386 269
70	70.00	101b	-600 -718	-555 -673	-503 -621	-443 -560	-372 -489	-286 -403	-181 -299	-50 -168	117 0	341 224	656 538
80	80.00	101b	-510 -628	-459 -577	-400 -517	-331 -448	-249 -367	-151 -269	-32 -149	117 0	309 192	566 448	925 807
90	90.00	101b	-420 -538	-363 -480	-296 -414	-219 -336	-127 -244	-17 -134	117 0	285 168	502 384	790 673	1194 1077
100	100.00	101b	-331 -448	-267 -384	-193 -310	-106 -224	-4 -122	117 0	267 149	454 336	694 577	1015 897	1463 1346
110	110.00	101b	-241 -359	-170 -288	-89 -207	5 -112	117 0	252 134	416 299	622 504	886 769	1239 1121	1733 1615
120	120.00	101b	-151 -269	-74 -192	14 -103	117 0	239 122	386 269	566 448	790 673	1079 961	1463 1346	2002 1884
130	130.00	101b	-61 -179	21 -96	117 0	229 112	362 244	521 403	715 598	959 841	1271 1154	1688 1570	2271 2154
140	140.00	101b	27 -89	117 0	221 103	341 224	484 367	656 538	865 747	1127 1009	1463 1346	1912 1795	2541 2423
150	150.00	101b	117 0	213 96	324 207	454 336	607 489	790 673	1015 897	1295 1178	1656 1538	2137 2019	2810 2692

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 2017 input prices.

Table 13.A Estimated resource use and costs for field operations, per acre  
 Southern peas, fresh market, mechanical harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Sub-Soiler	2 shank	2WD 75 hp	0.404	1.00	Feb	3.23	2.52	1.13	2.68	0.40	5.46				15.02
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Feb	0.67	0.52	0.08	0.30	0.08	1.14				2.71
AMM Sulfate 33%	cwt											0.5000	22.50	11.25	11.25
Phosphorus(46% P205)	cwt											1.5600	18.75	29.25	29.25
Potash (60% K20)	cwt											1.2000	22.20	26.64	26.64
Disk Harrow	14'	2WD 75 hp	0.141	2.00	Mar	2.26	1.76	1.95	4.12	0.28	3.83				13.92
Disk Bed	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.31	0.82	0.14	1.90				5.04
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Apr	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Treflan	pt											0.5000	3.52	1.76	1.76
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Apr	1.80	1.41	17.41	27.68	0.22	3.06				51.36
Southern Peas - OP	lb											10.0000	4.55	45.50	45.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Mustang Max	oz											8.0000	1.34	10.72	10.72
Cultivate	4-Row	2WD 75 hp	0.155	1.00	May	1.24	0.97	0.33	0.87	0.15	2.10				5.51
Trailer-Southern Pea	16'	2WD 75 hp	3.571	1.00	May	28.51	22.23	2.17	3.63	7.14	85.32				141.86
Picker Beans/Peas	1-Row	2WD 75 hp	3.571	1.00	May	28.51	22.23	60.06	42.90	10.71	122.39				276.09
Sacks - S Peas	each											75.0000	0.42	31.50	31.50
Sheller S. Peas	each			1.00	May				6.20			0.0200			6.20
64/10 lb bg S. Peas	acre							0.25		6.00	62.28	1.0000			62.53
R.B.Convey S. Peas	each			1.00	May				2.79			0.0200			2.79
Rot.Pk.Table S Peas	each			1.00	May				2.62			0.0200			2.62
Application 1	acre							0.15		3.00	31.14	1.0000			31.29
Bag Sealer S. Peas	each			1.00	May				0.72			0.0200			0.72
Application 1	acre							0.52		0.10	1.04	1.0000			1.56
TOTALS							74.78	58.32	114.79	148.31	29.27	333.24		183.83	913.27
INTEREST ON OPERATING CAPITAL															4.68
UNALLOCATED LABOR															25.31
TOTAL SPECIFIED COST															943.26

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 13.B Estimated costs per acre  
 Southern peas, fresh market, mechanical harvest  
 Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
AMM Sulfate 33%	cwt	22.50	0.5000	11.25	_____
Phosphorus(46% P205)	cwt	18.75	1.5600	29.25	_____
Potash (60% K20)	cwt	22.20	1.2000	26.64	_____
HERBICIDE					
Treflan	pt	3.52	0.5000	1.76	_____
INSECTICIDE					
Brigade 2EC	oz	0.74	6.0000	4.44	_____
Mustang Max	oz	1.34	8.0000	10.72	_____
SEED/PLANTS					
Southern Peas - OP	lb	4.55	10.0000	45.50	_____
OTHER					
Sacks - S Peas	each	0.42	75.0000	31.50	_____
OPERATOR LABOR					
Tractors	hour	13.51	9.3679	126.56	_____
HAND LABOR					
Implements	hour	10.38	10.8112	112.22	_____
GRD LABORPEAS					
Rot.Pk.Table S Peas	hour	10.38	3.0000	31.14	_____
Bag Sealer S. Peas	hour	10.38	0.1000	1.04	_____
Sheller S. Peas	hour	10.38	6.0000	62.28	_____
UNALLOCATED LABOR	hour	13.50	1.8735	25.31	_____
DIESEL FUEL					
Tractors	gal	1.80	36.1639	65.10	_____
REPAIR & MAINTENANCE					
Implements	acre	113.87	1.0000	113.87	_____
Tractors	acre	9.68	1.0000	9.68	_____
Rot.Pk.Table S Peas	acre	0.15	1.0000	0.15	_____
Bag Sealer S. Peas	acre	0.52	1.0000	0.52	_____
Sheller S. Peas	acre	0.25	1.0000	0.25	_____
INTEREST ON OP. CAP.	acre	4.68	1.0000	4.68	_____
TOTAL DIRECT EXPENSES				736.63	_____
FIXED EXPENSES					
Implements	acre	135.98	1.0000	135.98	_____
Tractors	acre	58.32	1.0000	58.32	_____
R.B.Convey S. Peas	each	139.54	0.0200	2.79	_____
Rot.Pk.Table S Peas	each	130.87	0.0200	2.62	_____
Bag Sealer S. Peas	each	36.17	0.0200	0.72	_____
Sheller S. Peas	each	309.85	0.0200	6.20	_____
TOTAL FIXED EXPENSES				206.63	_____
TOTAL SPECIFIED EXPENSES				943.26	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	67.14	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	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	0.00	4.44	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	45.50	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	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	7.92	6.88	11.80	331.95	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	3.39	2.95	4.63	54.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.72	2.70	28.37	91.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.45	1.26	0.14	0.77	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.22	81.43	12.67	97.27	522.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.22	-81.43	-12.67	-97.27	-522.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.22	-104.65	-117.32	-214.59	-736.63	-736.63	-736.63	-736.63	-736.63	-736.63	-736.63	-736.63

Note: Cost of production estimates are based on 2017 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, 2018

Southern Peas			-----BREAKEVEN PRICE-----										
			9.82	10.52	11.33	12.28	13.39	14.73	16.37	18.42	21.05	24.56	29.47
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.00	101b	-422 -628	-399 -606	-373 -580	-343 -550	-307 -514	-265 -471	-212 -419	-147 -353	-62 -269	49 -157	206 0
60	38.40	101b	-359 -565	-332 -539	-301 -507	-265 -471	-222 -428	-170 -377	-107 -314	-29 -235	71 -134	206 0	395 188
70	44.80	101b	-296 -503	-265 -471	-228 -435	-186 -393	-136 -343	-76 -282	-2 -209	88 -117	206 0	363 157	583 377
80	51.20	101b	-233 -440	-197 -404	-156 -362	-107 -314	-50 -257	17 -188	101 -104	206 0	341 134	521 314	772 565
90	57.60	101b	-170 -377	-130 -336	-83 -290	-29 -235	35 -171	112 -94	206 0	324 117	476 269	678 471	961 754
100	64.00	101b	-107 -314	-62 -269	-11 -217	49 -157	120 -85	206 0	311 104	442 235	610 404	835 628	1149 943
110	70.40	101b	-44 -251	4 -202	61 -145	128 -78	206 0	300 94	416 209	560 353	745 539	992 786	1338 1131
120	76.80	101b	17 -188	71 -134	134 -72	206 0	292 85	395 188	521 314	678 471	880 673	1149 943	1527 1320
130	83.20	101b	80 -125	139 -67	206 0	285 78	378 171	489 282	625 419	796 589	1015 808	1307 1100	1715 1509
140	89.60	101b	143 -62	206 0	279 72	363 157	463 257	583 377	730 524	914 707	1149 943	1464 1257	1904 1697
150	96.00	101b	206 0	274 67	351 145	442 235	549 343	678 471	835 628	1031 825	1284 1078	1621 1414	2093 1886

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 2017 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, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.45	1.19	0.21	2.63				6.28
Fert 13-13-13	cwt											9.0000	21.58	194.22	194.22
BS, Lay/Tape/Squash	Bed 5'cntr	2WD 75 hp	1.294	1.00	Mar	10.33	8.06	2.74	7.78	1.29	17.48				46.39
Plastic Mulch	roll											2.2000	285.00	627.00	627.00
Drip Tape	roll											1.5000	173.70	260.55	260.55
Plntr/H20/pnch/seed	1-Row	2WD 75 hp	2.578	1.00	Apr	20.58	16.05	5.09	8.24	5.15	61.59				111.55
Squash - Hybrid	lb											2.0000	220.00	440.00	440.00
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	110.97	665.82	665.82
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											50.0000	0.29	14.50	14.50
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Quadris	oz											11.0000	2.14	23.54	23.54
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											25.0000	0.29	7.25	7.25
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	Apr	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Brigade 2EC	oz											12.0000	0.74	8.88	8.88
Bravo Weather Stick	pt											3.0000	6.56	19.68	19.68
Fertigate CAN03/KN03				4.00	May										
FERTIGATION LABOR	hour									4.00	41.52				41.52
Calcium Nitrate	lb											100.0000	0.29	29.00	29.00
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Assail 30 SG	oz											5.3000	5.93	31.43	31.43
Trailer - Vegetables	16'	2WD 75 hp	0.090	10.00	Jun	7.18	5.60	0.49	0.82	1.80	21.50				35.59
HARVEST LABOR	hour			1.00	Jun					100.00	1038.00				1038.00
5-Gal Bucket	each											200.0000	4.00	800.00	800.00
Bushel Box	each											250.0000	1.50	375.00	375.00
GRADE & PACK LABOR	hour			10.00	Jun					110.00	1141.80				1141.80
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Jun	4.70	3.67	0.15	2.67	0.58	7.96				19.15
LABOR MULCH CLEANUP	hour									15.00	155.70				155.70
Irrigation Setup	acre				Apr							1.0000			315.50
TOTALS						58.65	45.75	60.81	111.17	243.89	2554.63			3531.33	6677.84
INTEREST ON OPERATING CAPITAL															50.04
UNALLOCATED LABOR															19.85
TOTAL SPECIFIED COST															6747.73

Note: Cost of production estimates are based on 2017 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	9.0000	194.22	_____
Calcium Nitrate	lb	0.29	200.0000	58.00	_____
FUNGICIDE					
Quadris	oz	2.14	11.0000	23.54	_____
Bravo Weather Stick	pt	6.56	3.0000	19.68	_____
INSECTICIDE					
Brigade 2EC	oz	0.74	18.0000	13.32	_____
Assail 30 SG	oz	5.93	5.3000	31.43	_____
SEED/PLANTS					
Squash - Hybrid	lb	220.00	2.0000	440.00	_____
OTHER					
Plastic Mulch	roll	285.00	2.2000	627.00	_____
5-Gal Bucket	each	4.00	200.0000	800.00	_____
Bushel Box	each	1.50	250.0000	375.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	1.5000	260.55	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	7.3471	99.26	_____
HARVEST LABOR					
Special Labor	hour	10.38	100.0000	1038.00	_____
GRADE & PACK LABOR					
Special Labor	hour	10.38	110.0000	1141.80	_____
HAND LABOR					
Implements	hour	10.38	3.5486	36.83	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	8.0000	83.04	_____
LABOR MULCH CLEANUP					
Special Labor	hour	10.38	15.0000	155.70	_____
UNALLOCATED LABOR					
	hour	13.50	1.4694	19.85	_____
DIESEL FUEL					
Tractors	gal	1.80	28.3629	51.05	_____
REPAIR & MAINTENANCE					
Implements	acre	60.81	1.0000	60.81	_____
Tractors	acre	7.60	1.0000	7.60	_____
INTEREST ON OP. CAP.	acre	50.04	1.0000	50.04	_____
TOTAL DIRECT EXPENSES				6275.31	_____
FIXED EXPENSES					
Implements	acre	111.17	1.0000	111.17	_____
Tractors	acre	45.75	1.0000	45.75	_____
Irrigation Setup	acre	315.50	1.0000	315.50	_____
TOTAL FIXED EXPENSES				472.42	_____
TOTAL SPECIFIED EXPENSES				6747.73	_____

Note: Cost of production estimates are based on 2017 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 Table 14.E 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, 2018

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	22.77	194.22	29.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	43.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	0.00	0.00	13.32	31.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	627.00	0.00	0.00	1175.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	260.55	665.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.58	30.42	126.00	45.50	2368.98	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	1.53	12.73	24.74	1.71	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.62	6.20	49.08	10.33	2.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.56	17.92	16.53	0.94	14.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	29.06	1149.04	1407.71	118.91	3570.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-29.06	-1149.04	-1407.71	-118.91	-3570.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-29.06	-1178.10	-2585.81	-2704.72	-6275.31	-6275.31	-6275.31	-6275.31	-6275.31	-6275.31	-6275.31	-6275.31

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Squash			18.49	19.70	21.10	22.74	24.67	26.99	29.82	33.36	37.91	43.98	52.47
PERCENT	YIELD	UNIT	-----dollars-----										
50	125.00	421b	-3775 -4247	-3623 -4095	-3448 -3920	-3244 -3716	-3002 -3475	-2713 -3185	-2359 -2831	-1916 -2389	-1347 -1820	-589 -1061	472 0
60	150.00	421b	-3350 -3822	-3168 -3640	-2958 -3430	-2713 -3185	-2423 -2896	-2076 -2548	-1651 -2123	-1120 -1592	-437 -910	472 0	1746 1274
70	175.00	421b	-2925 -3398	-2713 -3185	-2468 -2940	-2182 -2654	-1844 -2316	-1438 -1911	-943 -1415	-323 -796	472 0	1534 1061	3020 2548
80	200.00	421b	-2500 -2973	-2258 -2730	-1978 -2450	-1651 -2123	-1265 -1737	-801 -1274	-235 -707	472 0	1382 910	2596 2123	4295 3822
90	225.00	421b	-2076 -2548	-1803 -2275	-1487 -1960	-1120 -1592	-685 -1158	-164 -637	472 0	1268 796	2292 1820	3658 3185	5569 5097
100	250.00	421b	-1651 -2123	-1347 -1820	-997 -1470	-589 -1061	-106 -579	472 0	1180 707	2065 1592	3202 2730	4719 4247	6843 6371
110	275.00	421b	-1226 -1699	-892 -1365	-507 -980	-58 -530	472 0	1109 637	1888 1415	2861 2389	4113 3640	5781 5309	8117 7645
120	300.00	421b	-801 -1274	-437 -910	-17 -490	472 0	1051 579	1746 1274	2596 2123	3658 3185	5023 4550	6843 6371	9392 8919
130	325.00	421b	-377 -849	17 -455	472 0	1003 530	1630 1158	2383 1911	3304 2831	4454 3982	5933 5461	7905 7433	10666 10194
140	350.00	421b	47 -424	472 0	962 490	1534 1061	2210 1737	3020 2548	4012 3539	5250 4778	6843 6371	8967 8495	11940 11468
150	375.00	421b	472 0	927 455	1452 980	2065 1592	2789 2316	3658 3185	4719 4247	6047 5574	7753 7281	10029 9556	13214 12742

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 2017 input prices.

Table 15.A Estimated resource use and costs for field operations, per acre  
 Sweet corn, fresh market, hand harvest  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.45	1.19	0.21	2.63				6.28
Fert 13-13-13	cwt											7.5000	21.58	161.85	161.85
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Mar	1.24	0.97	0.33	0.87	0.15	2.10				5.51
Plntr - Vacuum	4-Row	2WD 75 hp	0.226	1.00	Mar	1.80	1.41	17.41	27.68	0.22	3.06				51.36
Sweet Corn - Hybrid	lb											9.0000	18.22	163.98	163.98
Poncho	lbseed											0.2020	0.73	0.15	0.15
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Mar	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Bicep II Magnum	pt											4.0000	5.51	22.04	22.04
Cultivate+Sidedress	4-Row	2WD 75 hp	0.193	2.00	Apr	3.09	2.41	1.68	7.41	0.58	7.25				21.84
AMM Sulfate 33%	cwt											4.0000	22.50	90.00	90.00
Sprayer 110 gal	30' 47hp		0.035	7.00	May	1.74	4.81			0.37	4.61				11.16
Brigade 2EC	oz											42.0000	0.74	31.08	31.08
Sprayer 110 gal	30' 47hp		0.035	5.00	Jun	1.24	3.44			0.26	3.29				7.97
Radiant 1SC	oz											30.0000	6.82	204.60	204.60
Brigade 2EC	oz											20.0000	0.74	14.80	14.80
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jun	0.72	0.56	0.05	0.08	0.18	2.15				3.56
HARVEST & PACK LABOR	hour			1.00	Jun					50.00	519.00				519.00
Crates - Sweet Corn	each			1.00	Jun							200.0000	2.35	470.00	470.00
Ice + Cooling	crate											200.0000	1.29	258.00	258.00
TOTALS						17.44	19.53	21.62	40.78	52.89	556.06			1439.27	2094.70
INTEREST ON OPERATING CAPITAL															14.32
UNALLOCATED LABOR															6.04
TOTAL SPECIFIED COST															2115.06

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 15.B Estimated costs per acre  
Sweet corn, fresh market, hand harvest  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	7.5000	161.85	_____
AMM Sulfate 33%	cwt	22.50	4.0000	90.00	_____
HERBICIDE					
Bicep II Magnum	pt	5.51	4.0000	22.04	_____
INSECTICIDE					
Poncho	lbseed	0.73	0.2020	0.15	_____
Brigade 2EC	oz	0.74	62.0000	45.88	_____
Radiant 1SC	oz	6.82	30.0000	204.60	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	18.22	9.0000	163.98	_____
OTHER					
Crates - Sweet Corn	each	2.35	200.0000	470.00	_____
Ice + Cooling	crate	1.29	200.0000	258.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	1.8112	24.48	_____
Self-Propelled	hour	13.51	0.4231	5.71	_____
HAND LABOR					
Implements	hour	10.38	0.4512	4.68	_____
Self-Propelled	hour	10.38	0.2115	2.19	_____
HARVEST & PACK LABOR					
Special Labor	hour	10.38	50.0000	519.00	_____
UNALLOCATED LABOR	hour	13.51	0.4468	6.04	_____
DIESEL FUEL					
Tractors	gal	1.80	6.9920	12.59	_____
Self-Propelled	gal	1.80	0.9092	1.63	_____
REPAIR & MAINTENANCE					
Implements	acre	21.62	1.0000	21.62	_____
Tractors	acre	1.87	1.0000	1.87	_____
Self-Propelled	acre	1.35	1.0000	1.35	_____
INTEREST ON OP. CAP.	acre	14.32	1.0000	14.32	_____
TOTAL DIRECT EXPENSES				2054.75	_____
FIXED EXPENSES					
Implements	acre	40.78	1.0000	40.78	_____
Tractors	acre	11.28	1.0000	11.28	_____
Self-Propelled	acre	8.25	1.0000	8.25	_____
TOTAL FIXED EXPENSES				60.31	_____
TOTAL SPECIFIED EXPENSES				2115.06	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	0.00	161.85	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	22.04	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	31.08	219.40	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	163.98	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	728.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	10.01	13.35	8.30	5.28	525.16	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.29	4.98	2.69	0.95	1.31	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.14	19.13	2.08	0.79	0.70	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.54	0.32	6.09	1.23	0.31	5.83	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.31	16.76	391.57	104.30	38.41	1480.40	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.31	-16.76	-391.57	-104.30	-38.41	-1480.40	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.31	-40.07	-431.64	-535.94	-574.35	-2054.75	-2054.75	-2054.75	-2054.75	-2054.75	-2054.75	-2054.75

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Sweet Corn			8.26	8.59	8.97	9.42	9.94	10.57	11.34	12.30	13.54	15.18	17.49
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-862	-829	-791	-747	-694	-631	-554	-458	-335	-170	60
			-922	-889	-851	-807	-755	-692	-615	-519	-395	-230	0
60	120.00	5doz	-770	-730	-685	-631	-568	-493	-401	-285	-137	60	337
			-830	-790	-745	-692	-629	-553	-461	-346	-197	0	276
70	140.00	5doz	-677	-631	-578	-516	-443	-354	-247	-112	60	291	613
			-738	-692	-638	-576	-503	-415	-307	-173	0	230	553
80	160.00	5doz	-585	-532	-472	-401	-317	-216	-93	60	258	521	890
			-645	-593	-532	-461	-377	-276	-153	0	197	461	830
90	180.00	5doz	-493	-434	-365	-285	-191	-78	60	233	455	752	1167
			-553	-494	-425	-346	-251	-138	0	173	395	692	1107
100	200.00	5doz	-401	-335	-259	-170	-65	60	214	406	653	983	1444
			-461	-395	-319	-230	-125	0	153	346	593	922	1384
110	220.00	5doz	-308	-236	-152	-55	60	198	367	579	851	1213	1721
			-369	-296	-212	-115	0	138	307	519	790	1153	1661
120	240.00	5doz	-216	-137	-46	60	186	337	521	752	1049	1444	1998
			-276	-197	-106	0	125	276	461	692	988	1384	1937
130	260.00	5doz	-124	-38	60	175	311	475	675	925	1246	1675	2274
			-184	-98	0	115	251	415	615	865	1186	1614	2214
140	280.00	5doz	-31	60	166	291	437	613	829	1098	1444	1905	2551
			-92	0	106	230	377	553	768	1038	1384	1845	2491
150	300.00	5doz	60	159	273	406	563	752	983	1271	1642	2136	2828
			0	98	212	346	503	692	922	1211	1581	2076	2768

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 2017 input prices.

Table 16.A Estimated resource use and costs for field operations, per acre  
 Sweet corn, fresh market, train harvest (shipping)  
 Mississippi, 2018

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	46.00	22.77	22.77
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Feb	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Disk Bed +App Fert	4-Row	2WD 75 hp	0.140	1.00	Mar	1.13	0.88	0.45	1.19	0.21	2.63				6.28
Fert 13-13-13	cwt											7.5000	21.58	161.85	161.85
Cultivate	4-Row	2WD 75 hp	0.155	1.00	Mar	1.24	0.97	0.33	0.87	0.15	2.10				5.51
Plntr - Vacuum+Ins	4R 30-40	2WD 75 hp	0.226	1.00	Mar	1.80	1.41	19.06	30.31	0.22	3.06				55.64
Sweet Corn - Hybrid	lb											9.0000	18.22	163.98	163.98
Poncho	lbseed											0.2020	0.73	0.15	0.15
Cultivate+App Herb	4-Row	2WD 75 hp	0.193	1.00	Mar	1.55	1.21	0.20	0.52	0.29	3.63				7.11
Bicep II Magnum	pt											4.0000	5.51	22.04	22.04
Cultivate+Sidedress	2-Row	2WD 75 hp	0.390	2.00	Apr	6.24	4.86	0.93	4.09	1.17	14.60				30.72
AMM Sulfate 33%	cwt											4.0000	22.50	90.00	90.00
Sprayer 110 gal	30' 47hp		0.035	7.00	May	1.74	4.81			0.37	4.61				11.16
Brigade 2EC	oz											42.0000	0.74	31.08	31.08
Sprayer 110 gal	30' 47hp		0.035	5.00	Jun	1.24	3.44			0.26	3.29				7.97
Radiant 1SC	oz											30.0000	6.82	204.60	204.60
Brigade 2EC	oz											20.0000	0.74	14.80	14.80
Mule Train (Corn)	30'	2WD 75 hp	0.200	1.00	Jun	1.60	1.24	11.65	72.90	8.60	89.89				177.28
Trailer(MuleTrn)Corn	16'	2WD 75 hp	0.229	1.00	Jun	1.83	1.43	2.07	3.48	0.68	7.86				16.67
Crates - Sweet Corn	each			1.00	Jun							200.0000	2.35	470.00	470.00
Ice + Cooling	crate											200.0000	1.29	258.00	258.00
TOTALS						23.30	24.09	36.19	116.39	12.59	140.01			1439.27	1779.25
INTEREST ON OPERATING CAPITAL															12.87
UNALLOCATED LABOR															8.02
TOTAL SPECIFIED COST															1800.14

Note: Cost of production estimates are based on 2017 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	0.4950	22.77	_____
Fert 13-13-13	cwt	21.58	7.5000	161.85	_____
AMM Sulfate 33%	cwt	22.50	4.0000	90.00	_____
HERBICIDE					
Bicep II Magnum	pt	5.51	4.0000	22.04	_____
INSECTICIDE					
Poncho	lbseed	0.73	0.2020	0.15	_____
Brigade 2EC	oz	0.74	62.0000	45.88	_____
Radiant 1SC	oz	6.82	30.0000	204.60	_____
SEED/PLANTS					
Sweet Corn - Hybrid	lb	18.22	9.0000	163.98	_____
OTHER					
Crates - Sweet Corn	each	2.35	200.0000	470.00	_____
Ice + Cooling	crate	1.29	200.0000	258.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	2.5439	34.37	_____
Self-Propelled	hour	13.51	0.4231	5.71	_____
HARVEST LABOR					
Implements	hour	10.38	8.8583	91.95	_____
HAND LABOR					
Implements	hour	10.38	0.5580	5.79	_____
Self-Propelled	hour	10.38	0.2115	2.19	_____
UNALLOCATED LABOR	hour	13.51	0.5934	8.02	_____
DIESEL FUEL					
Tractors	gal	1.80	9.8207	17.68	_____
Self-Propelled	gal	1.80	0.9092	1.63	_____
REPAIR & MAINTENANCE					
Implements	acre	36.19	1.0000	36.19	_____
Tractors	acre	2.64	1.0000	2.64	_____
Self-Propelled	acre	1.35	1.0000	1.35	_____
INTEREST ON OP. CAP.	acre	12.87	1.0000	12.87	_____
TOTAL DIRECT EXPENSES				1659.66	_____
FIXED EXPENSES					
Implements	acre	116.39	1.0000	116.39	_____
Tractors	acre	15.84	1.0000	15.84	_____
Self-Propelled	acre	8.25	1.0000	8.25	_____
TOTAL FIXED EXPENSES				140.48	_____
TOTAL SPECIFIED EXPENSES				1800.14	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	22.77	0.00	161.85	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	22.04	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	31.08	219.40	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	163.98	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	728.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	10.01	13.35	16.71	5.28	102.68	0.00	0.00	0.00	0.00	0.00	0.00
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	4.29	4.98	5.43	0.95	3.66	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	2.14	20.78	1.74	0.79	14.73	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.54	0.32	6.12	1.35	0.31	4.23	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	23.31	16.76	393.25	115.23	38.41	1072.70	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-23.31	-16.76	-393.25	-115.23	-38.41	-1072.70	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-23.31	-40.07	-433.32	-548.55	-586.96	-1659.66	-1659.66	-1659.66	-1659.66	-1659.66	-1659.66	-1659.66

Note: Cost of production estimates are based on 2017 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, 2018

Sweet Corn			-----BREAKEVEN PRICE-----										
			7.21	7.47	7.76	8.10	8.51	9.00	9.59	10.33	11.29	12.56	14.34
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	5doz	-572	-546	-517	-483	-442	-394	-334	-260	-165	-37	140
			-712	-687	-658	-623	-583	-534	-475	-400	-305	-178	0
60	120.00	5doz	-501	-470	-435	-394	-345	-287	-215	-126	-12	140	354
			-641	-611	-575	-534	-486	-427	-356	-267	-152	0	213
70	140.00	5doz	-429	-394	-353	-305	-248	-180	-97	6	140	318	568
			-570	-534	-493	-445	-388	-320	-237	-133	0	178	427
80	160.00	5doz	-358	-317	-270	-215	-151	-73	21	140	293	496	782
			-498	-458	-411	-356	-291	-213	-118	0	152	356	641
90	180.00	5doz	-287	-241	-188	-126	-53	33	140	274	445	675	995
			-427	-381	-329	-267	-194	-106	0	133	305	534	855
100	200.00	5doz	-215	-165	-106	-37	43	140	259	407	598	853	1209
			-356	-305	-246	-178	-97	0	118	267	458	712	1069
110	220.00	5doz	-144	-88	-24	51	140	247	378	541	751	1031	1423
			-285	-229	-164	-89	0	106	237	400	611	891	1283
120	240.00	5doz	-73	-12	58	140	237	354	496	675	904	1209	1637
			-213	-152	-82	0	97	213	356	534	763	1069	1496
130	260.00	5doz	-2	64	140	229	334	461	615	808	1056	1387	1851
			-142	-76	0	89	194	320	475	668	916	1247	1710
140	280.00	5doz	69	140	222	318	432	568	734	942	1209	1566	2065
			-71	0	82	178	291	427	594	801	1069	1425	1924
150	300.00	5doz	140	216	304	407	529	675	853	1076	1362	1744	2279
			0	76	164	267	388	534	712	935	1222	1603	2138

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 2017 input prices.

Table 17.A Estimated resource use and costs for field operations, per acre  
Sweet potatoes  
Mississippi, 2018

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	0.44	0.60	0.24	0.28	0.04	0.53				2.09
Gly Star Plus	pt											2.0000	2.17	4.34	4.34
Disk Harrow	24'	MFWD 170	0.082	2.00	Apr	3.39	4.98	1.91	4.03	0.16	2.23				16.54
Chisel Plow Folding	24'	MFWD 170	0.077	1.00	Apr	1.59	2.34	1.10	1.91	0.07	1.05				7.99
Custom Apply Fert	acre			1.00	Apr							1.0000	7.00	7.00	7.00
Fert 5-20-30+S+B	cwt											7.5000	23.54	176.55	176.55
Lorsban 15G	lb											13.3000	2.35	31.26	31.26
Disk Bed (Hipper)fld	8R-40	MFWD 130	0.070	1.80	May	1.98	2.70	0.63	1.68	0.12	1.71				8.70
Disk Bed (Hipper)fld	8R-40	MFWD 130	0.070	0.20	May	0.22	0.30	0.07	0.19	0.01	0.19				0.97
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.44	0.60	0.24	0.28	0.04	0.53				2.09
Valor SX	oz											2.0000	4.57	9.14	9.14
Trailer-Sweet Potato	16'	MFWD 130	0.598	1.00	May	9.32	12.72	5.42	9.08	0.59	8.09				44.63
Sweetpotato Plants	thous											12.0000	32.50	390.00	390.00
Trailer Water	10'	MFWD 130	0.600	1.00	May	9.35	12.75	0.19	0.56	0.60	8.11				30.96
Plntr/Transplanter	8R-42	MFWD 170	0.333	1.00	May	6.84	10.04	0.05	3.54	5.66	57.83				78.30
Crate Sweetpotato	each											2.0000	8.00	16.00	16.00
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.44	0.60	0.24	0.28	0.04	0.53				2.09
Command 3ME	pt											2.0000	19.43	38.86	38.86
Brigade 2EC	oz											6.4000	0.74	4.74	4.74
Ditcher		MFWD 130	0.020	1.00	May	0.31	0.43	0.05	0.06	0.02	0.27				1.12
Scouting Sweetpotato	acre			1.00	May							1.0000	15.00	15.00	15.00
Spray (Broadcast)	60'	MFWD 130	0.028	1.00	May	0.44	0.60	0.24	0.28	0.04	0.53				2.09
Brigade 2EC	oz											6.4000	0.74	4.74	4.74
Cultivate - Heavy	8R-42	MFWD 130	0.073	1.00	May	1.15	1.57	0.42	1.12	0.07	1.00				5.26
Ditcher		MFWD 130	0.020	1.00	May	0.31	0.43	0.05	0.06	0.02	0.27				1.12
Cultivate - Heavy	8R-42	MFWD 130	0.073	1.00	Jun	1.15	1.57	0.42	1.12	0.07	1.00				5.26
Ditcher		MFWD 130	0.020	1.00	Jun	0.31	0.43	0.05	0.06	0.02	0.27				1.12
Spray (Broadcast)	60'	MFWD 130	0.028	0.50	Jul	0.22	0.30	0.12	0.14	0.02	0.26				1.04
Poast 1.53	pt											0.5000	12.77	6.39	6.39
Hand Weeding Swt.Pot	acre			1.00	Jul							1.0000	25.65	25.65	25.65
Stalk Shredder-Flail	15'	MFWD 130	0.110	1.00	Sep	1.73	2.36	0.53	1.56	0.11	1.50				7.68
Trailer-Sweet Potato	16'	MFWD 130	0.598	1.00	Sep	9.32	12.72	5.42	9.08	0.59	8.09				44.63
SWEET POTATO LABOR	hour									1.00	10.00				10.00
Truck	1/2 ton		2.310	1.00	Sep	8.53	11.38			2.31	31.21				51.12
Truck	1 ton +		1.730	1.00	Sep	12.64	131.20			1.73	23.37				167.21
Harvester,Swt.Potato	2 Row	MFWD 170	1.011	1.00	Sep	20.75	30.44	6.72	10.24	7.07	76.63				144.78
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										43.60
SKID LOADER LABOR-2	hour									4.36	43.60				43.60
Custom Skid Loader-2	acre											1.0000	13.63	13.63	13.63
Fuel Skid Loader (2)	acre											1.0000	7.10	7.10	7.10
Fork Lift			2.220	1.00	Sep	5.33	8.45			2.22	29.99				43.77
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	2.59	854.70	854.70
Box Sweetpotato	each											330.0000	1.67	551.10	551.10
Sweet Potato Broker	box			1.00	Sep							330.0000	1.00	330.00	330.00
TOTALS						96.20	249.51	24.11	45.55	57.05	608.79			2784.20	3808.36
INTEREST ON OPERATING CAPITAL															28.43
UNALLOCATED LABOR															27.65
TOTAL SPECIFIED COST															3864.44

Note: Cost of production estimates are based on 2017 input prices.  
Fertilization decisions should be based on soil tests.

Table 17.B Estimated costs per acre  
Sweet potatoes  
Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM					
Trapping	acre	1.00	1.0000	1.00	_____
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
Scouting Sweetpotato	acre	15.00	1.0000	15.00	_____
Custom Skid Loader-2	acre	13.63	1.0000	13.63	_____
Fuel Skid Loader (2)	acre	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	23.54	7.5000	176.55	_____
HERBICIDE					
Gly Star Plus	pt	2.17	2.0000	4.34	_____
Valor SX	oz	4.57	2.0000	9.14	_____
Command 3ME	pt	19.43	2.0000	38.86	_____
Poast 1.53	pt	12.77	0.5000	6.39	_____
INSECTICIDE					
Lorsban 15G	lb	2.35	13.3000	31.26	_____
Brigade 2EC	oz	0.74	12.8000	9.47	_____
SEED/PLANTS					
Sweetpotato Plants	thous	32.50	12.0000	390.00	_____
OTHER					
Crate Sweetpotato	each	8.00	2.0000	16.00	_____
Hand Weeding Swt.Pot	acre	25.65	1.0000	25.65	_____
Bin Repair	each	1.50	2.0000	3.00	_____
Sweetpotato Storage	cwt	2.00	112.0000	224.00	_____
Clean, grade, pack	box	2.59	330.0000	854.70	_____
Box Sweetpotato	each	1.67	330.0000	551.10	_____
Sweet Potato Broker	box	1.00	330.0000	330.00	_____
OPERATOR LABOR					
Tractors	hour	13.51	3.9711	53.65	_____
Self-Propelled	hour	13.51	6.2600	84.57	_____
HAND LABOR					
Implements	hour	10.38	6.1296	63.64	_____
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	13.51	2.0462	27.65	_____
DIESEL FUEL					
Tractors	gal	1.80	29.8407	53.71	_____
Self-Propelled	gal	1.80	1.2456	2.24	_____
GASOLINE					
Self-Propelled	gal	2.10	3.1416	6.60	_____
LP GAS					
Self-Propelled	gal	1.65	2.3754	3.92	_____
REPAIR & MAINTENANCE					
Implements	acre	24.11	1.0000	24.11	_____
Tractors	acre	15.99	1.0000	15.99	_____
Self-Propelled	acre	13.74	1.0000	13.74	_____
INTEREST ON OP. CAP.	acre	28.43	1.0000	28.43	_____
TOTAL DIRECT EXPENSES				3569.38	_____
FIXED EXPENSES					
Implements	acre	45.55	1.0000	45.55	_____
Tractors	acre	98.48	1.0000	98.48	_____
Self-Propelled	acre	151.03	1.0000	151.03	_____
TOTAL FIXED EXPENSES				295.06	_____
TOTAL SPECIFIED EXPENSES				3864.44	_____

Note: Cost of production estimates are based on 2017 input prices.  
Fertilization decisions should be based on soil tests.



Table 17.C Estimated monthly income and expense flows per acre  
Sweet potatoes  
Mississippi, 2018

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	8.00	15.00	0.00	0.00	0.00	90.73	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZER	176.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	4.34	48.00	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSECTICIDE	31.26	9.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	390.00	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	25.65	0.00	1962.80	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	4.55	84.12	1.52	0.30	0.00	545.95	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	4.16	23.78	1.13	0.17	0.00	37.23	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	4.51	14.62	0.80	0.17	0.00	33.74	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	5.53	11.89	0.05	0.39	0.00	10.57	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	238.90	612.89	3.50	33.07	0.00	2681.02	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-238.90	-612.89	-3.50	-33.07	0.00	-2681.02	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-238.90	-851.79	-855.29	-888.36	-888.36	-3569.38	-3569.38	-3569.38	-3569.38	-3569.38	-3569.38	-3569.38

Note: Cost of production estimates are based on 2017 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, 2018

Sweet Potatoes			-----BREAKEVEN PRICE-----										
			10.78	11.08	11.42	11.83	12.30	12.88	13.58	14.45	15.57	17.07	19.17
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	40lb	-963 -1258	-918 -1213	-866 -1161	-806 -1101	-734 -1029	-648 -943	-543 -838	-412 -707	-244 -539	-19 -314	295 0
60	180.00	40lb	-837 -1132	-783 -1078	-721 -1016	-648 -943	-562 -857	-459 -755	-334 -629	-176 -471	25 -269	295 0	672 377
70	210.00	40lb	-711 -1006	-648 -943	-576 -871	-491 -786	-391 -686	-271 -566	-124 -419	59 -235	295 0	609 314	1050 755
80	240.00	40lb	-585 -880	-513 -808	-430 -725	-334 -629	-219 -514	-82 -377	85 -209	295 0	564 269	924 629	1427 1132
90	270.00	40lb	-459 -755	-379 -674	-285 -580	-176 -471	-48 -343	106 -188	295 0	531 235	834 539	1238 943	1805 1510
100	300.00	40lb	-334 -629	-244 -539	-140 -435	-19 -314	123 -171	295 0	504 209	766 471	1104 808	1553 1258	2182 1887
110	330.00	40lb	-208 -503	-109 -404	4 -290	137 -157	295 0	483 188	714 419	1002 707	1373 1078	1868 1572	2560 2265
120	360.00	40lb	-82 -377	25 -269	149 -145	295 0	466 171	672 377	924 629	1238 943	1643 1348	2182 1887	2937 2642
130	390.00	40lb	43 -251	160 -134	295 0	452 157	638 343	861 566	1133 838	1474 1179	1912 1617	2497 2202	3315 3020
140	420.00	40lb	169 -125	295 0	440 145	609 314	809 514	1050 755	1343 1048	1710 1415	2182 1887	2811 2516	3692 3397
150	450.00	40lb	295 0	429 134	585 290	766 471	981 686	1238 943	1553 1258	1946 1651	2452 2157	3126 2831	4070 3775

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 2017 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, 2018

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	46.00	15.18	15.18
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	2.00	Mar	3.17	2.47	1.11	2.35	0.39	5.36				14.46
Fert-Cyclone Spin	750 lb	2WD 75 hp	0.084	1.00	Mar	0.67	0.52	0.08	0.30	0.08	1.14				2.71
AMM Sulfate 33%	cwt											1.1700	22.50	26.33	26.33
Phosphorus(46% P205)	cwt											2.6000	18.75	48.75	48.75
Potash (60% K20)	cwt											2.0000	22.20	44.40	44.40
Disk + Incorporate	10'	2WD 75 hp	0.206	1.00	Mar	1.64	1.28	0.95	1.68	0.30	3.86				9.41
Treflan	pt											0.7500	3.52	2.64	2.64
BS, Lay/Tape/Tomato	Bed 6'cntr	2WD 75 hp	1.078	1.00	Mar	8.61	6.71	2.75	7.80	1.07	14.57				40.44
Plastic Mulch	roll											1.8000	285.00	513.00	513.00
Drip Tape	roll											1.2000	173.70	208.44	208.44
Plntr/H2O Tomato	1R 6'cntr	2WD 75 hp	1.718	1.00	Apr	13.72	10.70	2.56	4.14	6.87	76.74				107.86
PLANTING LABOR	hour									30.00	311.40				311.40
Tomato Plants-Hybrid	thous											4.4000	97.67	429.75	429.75
Fert 15-30-15	lb											37.5000	0.58	21.75	21.75
Admire Pro	oz											7.0000	1.70	11.90	11.90
Irrigation				1.00	Apr										
Rural Water	ac-in											6.0000	110.97	665.82	665.82
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											30.0000	0.29	8.70	8.70
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											1.5000	6.56	9.84	9.84
Radiant 1SC	oz											10.0000	6.82	68.20	68.20
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											30.0000	0.29	8.70	8.70
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Radiant 1SC	oz											10.0000	6.82	68.20	68.20
Quadris	oz											5.0000	2.14	10.70	10.70
Fertigate CAN03/KN03				2.00	Apr										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											60.0000	0.29	17.40	17.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Quadris	oz											5.0000	2.14	10.70	10.70
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Radiant 1SC	oz											10.0000	6.82	68.20	68.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Bravo Weather Stick	pt											2.0000	6.56	13.12	13.12
Oberon 2SC	oz											8.0000	4.24	33.92	33.92
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											30.0000	0.29	8.70	8.70

(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, 2018 (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	103.80				103.80
Wood Stakes	100												44.0000	73.00	3212.00	3212.00
Plastic string	6000'												4.0000	10.50	42.00	42.00
Fertigate CAN03/KN03				3.00	May											
FERTIGATION LABOR	hour										3.00	31.14				31.14
Calcium Nitrate	lb												90.0000	0.29	26.10	26.10
Sucker Control				1.00	Jun											
HAND LABOR	hour										5.00	51.90				51.90
Fertigate CAN03/KN03				1.00	Jun											
FERTIGATION LABOR	hour										1.00	10.38				10.38
Calcium Nitrate	lb												30.0000	0.29	8.70	8.70
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Bravo Weather Stick	pt												2.0000	6.56	13.12	13.12
Brigade 2EC	oz												6.0000	0.74	4.44	4.44
Fertigate CAN03/KN03				3.00	Jun											
FERTIGATION LABOR	hour										3.00	31.14				31.14
Calcium Nitrate	lb												90.0000	0.29	26.10	26.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Brigade 2EC	oz												6.0000	0.74	4.44	4.44
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jul	1.96	1.53	10.08	17.49	0.24	3.32					34.38
Brigade 2EC	oz												6.0000	0.74	4.44	4.44
Trailer - Vegetables	16'	2WD 75 hp	0.090	1.00	Jul	0.72	0.56	0.05	0.08	0.18	2.15					3.56
CustomHarvest Tomato	box			1.00	Jul								1600.0000	1.00	1600.00	1600.00
5-Gal Bucket	each												200.0000	4.00	800.00	800.00
GRADE & PACK LABOR	hour			1.00	Jul						320.00	3321.60				3321.60
Box Tomato	box												1600.0000	1.69	2704.00	2704.00
Mulch Lifter	1-Row	2WD 75 hp	0.589	1.00	Jul	4.70	3.67	0.15	2.67	0.58	7.96					19.15
LABOR MULCH CLEANUP	hour										15.00	155.70				155.70
Irrigation Setup	acre				Apr								1.0000			311.46
TOTALS						50.67	39.52	88.68	159.62	403.69	4210.28				10768.56	15628.79
INTEREST ON OPERATING CAPITAL																125.22
UNALLOCATED LABOR																17.12
TOTAL SPECIFIED COST																15771.13

Note: Cost of production estimates are based on 2017 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, 2018

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	46.00	0.3300	15.18	_____
AMM Sulfate 33%	cwt	22.50	1.1700	26.33	_____
Phosphorus(46% P205)	cwt	18.75	2.6000	48.75	_____
Potash (60% K20)	cwt	22.20	2.0000	44.40	_____
Fert 15-30-15	lb	0.58	37.5000	21.75	_____
Calcium Nitrate	lb	0.29	360.0000	104.40	_____
FUNGICIDE					
Bravo Weather Stick	pt	6.56	5.5000	36.08	_____
Quadris	oz	2.14	10.0000	21.40	_____
HERBICIDE					
Treflan	pt	3.52	0.7500	2.64	_____
INSECTICIDE					
Admire Pro	oz	1.70	7.0000	11.90	_____
Radiant 1SC	oz	6.82	30.0000	204.60	_____
Brigade 2EC	oz	0.74	30.0000	22.20	_____
Oberon 2SC	oz	4.24	8.0000	33.92	_____
SEED/PLANTS					
Tomato Plants-Hybrid	thous	97.67	4.4000	429.75	_____
OTHER					
Plastic Mulch	roll	285.00	1.8000	513.00	_____
Wood Stakes	100	73.00	44.0000	3212.00	_____
Plastic string	6000'	10.50	4.0000	42.00	_____
5-Gal Bucket	each	4.00	200.0000	800.00	_____
Box Tomato	box	1.69	1600.0000	2704.00	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	1.2000	208.44	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	6.3481	85.80	_____
PLANTING LABOR					
Special Labor	hour	10.38	30.0000	311.40	_____
GRADE & PACK LABOR					
Special Labor	hour	10.38	320.0000	3321.60	_____
HAND & STOR LABOR					
Special Labor	hour	10.38	10.0000	103.80	_____
HAND LABOR					
Special Labor	hour	10.38	5.0000	51.90	_____
Implements	hour	10.38	5.3493	55.52	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	12.0000	124.56	_____
LABOR MULCH CLEANUP					
Special Labor	hour	10.38	15.0000	155.70	_____
UNALLOCATED LABOR					
	hour	13.48	1.2696	17.12	_____
DIESEL FUEL					
Tractors	gal	1.80	24.5064	44.13	_____
REPAIR & MAINTENANCE					
Implements	acre	88.68	1.0000	88.68	_____
Tractors	acre	6.54	1.0000	6.54	_____
INTEREST ON OP. CAP.	acre	125.22	1.0000	125.22	_____
TOTAL DIRECT EXPENSES				15260.53	_____
FIXED EXPENSES					
Implements	acre	159.62	1.0000	159.62	_____
Tractors	acre	39.52	1.0000	39.52	_____
Irrigation Setup	acre	311.46	1.0000	311.46	_____
TOTAL FIXED EXPENSES				510.60	_____
TOTAL SPECIFIED EXPENSES				15771.13	_____

Note: Cost of production estimates are based on 2017 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, 2018

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	15.18	119.48	56.55	34.80	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	20.54	23.82	13.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	2.64	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	148.30	111.00	8.88	4.44	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	429.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	513.00	0.00	3254.00	0.00	3504.00	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	208.44	665.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.58	29.70	442.26	157.26	101.38	3493.22	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	1.53	12.26	15.36	5.13	3.42	6.43	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.62	6.72	25.00	30.99	20.66	11.23	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	0.50	17.65	28.55	42.94	1.46	34.12	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	21.41	909.89	1832.13	3659.94	183.72	8653.44	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-21.41	-909.89	-1832.13	-3659.94	-183.72	-8653.44	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-21.41	-931.30	-2763.43	-6423.37	-6607.09	-15260.53	-15260.53	-15260.53	-15260.53	-15260.53	-15260.53	-15260.53

Note: Cost of production estimates are based on 2017 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  
Sweet potatoes  
Mississippi, 2018

			-----BREAKEVEN PRICE-----										
Sweet Potatoes			10.78	11.08	11.42	11.83	12.30	12.88	13.58	14.45	15.57	17.07	19.17
PERCENT	YIELD	UNIT	-----dollars-----										
50	150.00	40lb	-963 -1258	-918 -1213	-866 -1161	-806 -1101	-734 -1029	-648 -943	-543 -838	-412 -707	-244 -539	-19 -314	295 0
60	180.00	40lb	-837 -1132	-783 -1078	-721 -1016	-648 -943	-562 -857	-459 -755	-334 -629	-176 -471	25 -269	295 0	672 377
70	210.00	40lb	-711 -1006	-648 -943	-576 -871	-491 -786	-391 -686	-271 -566	-124 -419	59 -235	295 0	609 314	1050 755
80	240.00	40lb	-585 -880	-513 -808	-430 -725	-334 -629	-219 -514	-82 -377	85 -209	295 0	564 269	924 629	1427 1132
90	270.00	40lb	-459 -755	-379 -674	-285 -580	-176 -471	-48 -343	106 -188	295 0	531 235	834 539	1238 943	1805 1510
100	300.00	40lb	-334 -629	-244 -539	-140 -435	-19 -314	123 -171	295 0	504 209	766 471	1104 808	1553 1258	2182 1887
110	330.00	40lb	-208 -503	-109 -404	4 -290	137 -157	295 0	483 188	714 419	1002 707	1373 1078	1868 1572	2560 2265
120	360.00	40lb	-82 -377	25 -269	149 -145	295 0	466 171	672 377	924 629	1238 943	1643 1348	2182 1887	2937 2642
130	390.00	40lb	43 -251	160 -134	295 0	452 157	638 343	861 566	1133 838	1474 1179	1912 1617	2497 2202	3315 3020
140	420.00	40lb	169 -125	295 0	440 145	609 314	809 514	1050 755	1343 1048	1710 1415	2182 1887	2811 2516	3692 3397
150	450.00	40lb	295 0	429 134	585 290	766 471	981 686	1238 943	1553 1258	1946 1651	2452 2157	3126 2831	4070 3775

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 2017 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, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Lime (Spread)	ton			1.00	Jan							1.5000	46.00	69.00	69.00
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	1.76	1.37	0.39	0.68	0.22	2.98				7.18
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Feb	1.59	1.23	0.56	1.18	0.19	2.68				7.24
BS, Lay/Tape/Melon	Bed 8'cntr	2WD 75 hp	0.808	1.00	Mar	6.46	5.03	2.78	7.90	0.80	10.93				33.10
Plastic Mulch	roll											1.4000	285.00	399.00	399.00
Drip Tape	roll											0.9000	173.70	156.33	156.33
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	0.50	0.39	0.16	0.19	0.09	1.18				2.42
Strategy	pt											2.0000	9.78	19.56	19.56
Plntr/H2O Melon	1R 8'cntr	2WD 75 hp	0.645	1.00	Mar	5.15	4.02	1.29	2.09	2.58	28.81				41.36
Watermelon - Diploid	thous											1.8000	95.31	171.56	171.56
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	110.97	665.82	665.82
Fertigate CAN03/KN03				1.00	Mar										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											89.0000	0.29	25.81	25.81
Potash (60% K20)	cwt											0.5000	22.20	11.10	11.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Assail 30 SG	oz											4.0000	5.93	23.72	23.72
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											89.0000	0.29	25.81	25.81
Potash (60% K20)	cwt											0.5000	22.20	11.10	11.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44
Fertigate CAN03/KN03				4.00	Apr										
FERTIGATION LABOR	hour									4.00	41.52				41.52
Calcium Nitrate	lb											356.0000	0.29	103.24	103.24
Potash (60% K20)	cwt											2.0000	22.20	44.40	44.40
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	3.92	3.06	20.15	34.97	0.49	6.63				68.73
Bravo Weather Stick	pt											3.0000	6.56	19.68	19.68
Quadris	oz											22.0000	2.14	47.08	47.08
Fertigate CAN03/KN03				1.00	May										
FERTIGATION LABOR	hour									1.00	10.38				10.38
Calcium Nitrate	lb											89.0000	0.29	25.81	25.81
Potash (60% K20)	cwt											0.5000	22.20	11.10	11.10
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	May	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Bravo Weather Stick	pt											2.0000	6.56	13.12	13.12
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	20.76				20.76
Calcium Nitrate	lb											178.0000	0.29	51.62	51.62
Potash (60% K20)	cwt											1.0000	22.20	22.20	22.20
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	1.96	1.53	10.08	17.49	0.24	3.32				34.38
Brigade 2EC	oz											6.0000	0.74	4.44	4.44

(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, 2018(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	2.87	2.24	0.20	0.33	0.72	8.60					14.24
Harvest Labor Melons cwt				1.00	Jun							200.0000	2.57	514.00		514.00
Pallet Crates-1350lb each												20.0000	20.66	413.20		413.20
Plastic Clean Up				1.00	Jun											
Mulch Lifter	1-Row	2WD 75 hp	0.589			4.70	3.67	0.15	2.67	0.58	7.96					19.15
LABOR MULCH CLEANUP	hour									15.00	155.70					155.70
Irrigation Setup	acre				Mar								1.0000			303.38
TOTALS						34.79	27.13	66.00	119.97	30.68	332.17					2853.14
INTEREST ON OPERATING CAPITAL																36.08
UNALLOCATED LABOR																11.77
TOTAL SPECIFIED COST																3784.43

Note: Cost of production estimates are based on 2017 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Lime (Spread)	ton	46.00	1.5000	69.00	_____
Calcium Nitrate	lb	0.29	801.0000	232.29	_____
Potash (60% K20)	cwt	22.20	4.5000	99.90	_____
FUNGICIDE					
Bravo Weather Stick	pt	6.56	5.0000	32.80	_____
Quadris	oz	2.14	22.0000	47.08	_____
HERBICIDE					
Strategy	pt	9.78	2.0000	19.56	_____
INSECTICIDE					
Assail 30 SG	oz	5.93	4.0000	23.72	_____
Brigade 2EC	oz	0.74	12.0000	8.88	_____
SEED/PLANTS					
Watermelon - Diploid	thous	95.31	1.8000	171.56	_____
OTHER					
Plastic Mulch	roll	285.00	1.4000	399.00	_____
Harvest Labor Melons	cwt	2.57	200.0000	514.00	_____
Pallet Crates-1350lb	each	20.66	20.0000	413.20	_____
IRRIGATION SUPPLIES					
Drip Tape	roll	173.70	0.9000	156.33	_____
Rural Water	ac-in	110.97	6.0000	665.82	_____
OPERATOR LABOR					
Tractors	hour	13.51	4.3578	58.89	_____
HAND LABOR					
Implements	hour	10.38	2.3268	24.16	_____
FERTIGATION LABOR					
Special Labor	hour	10.38	9.0000	93.42	_____
LABOR MULCH CLEANUP					
Special Labor	hour	10.38	15.0000	155.70	_____
UNALLOCATED LABOR	hour	13.50	0.8715	11.77	_____
DIESEL FUEL					
Tractors	gal	1.80	16.8230	30.29	_____
REPAIR & MAINTENANCE					
Implements	acre	66.00	1.0000	66.00	_____
Tractors	acre	4.50	1.0000	4.50	_____
INTEREST ON OP. CAP.	acre	36.08	1.0000	36.08	_____
TOTAL DIRECT EXPENSES				3333.95	_____
FIXED EXPENSES					
Implements	acre	119.97	1.0000	119.97	_____
Tractors	acre	27.13	1.0000	27.13	_____
Irrigation Setup	acre	303.38	1.0000	303.38	_____
TOTAL FIXED EXPENSES				450.48	_____
TOTAL SPECIFIED EXPENSES				3784.43	_____

Note: Cost of production estimates are based on 2017 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 tapMississippi, 2018

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	69.00	0.00	36.91	184.55	110.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDE	0.00	0.00	0.00	0.00	79.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDE	0.00	0.00	19.56	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	28.16	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	171.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER	0.00	0.00	399.00	0.00	0.00	927.20	0.00	0.00	0.00	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	822.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	6.80	55.40	59.86	43.08	178.80	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	2.91	10.54	3.42	5.12	8.30	0.00	0.00	0.00	0.00	0.00	0.00
REPAIR & MAINTENANCE	0.00	1.39	5.80	20.66	30.99	11.66	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON OP. CAP.	1.64	0.22	24.09	3.52	2.13	4.48	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL DIRECT EXPENSES	70.64	11.32	1545.01	300.17	271.93	1134.88	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME	-70.64	-11.32	-1545.01	-300.17	-271.93	-1134.88	0.00	0.00	0.00	0.00	0.00	0.00
NET INCOME TO DATE	-70.64	-81.96	-1626.97	-1927.14	-2199.07	-3333.95	-3333.95	-3333.95	-3333.95	-3333.95	-3333.95	-3333.95

Note: Cost of production estimates are based on 2017 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, 2018

			-----BREAKEVEN PRICE-----										
Watermelons			13.47	14.25	15.15	16.19	17.43	18.92	20.73	23.00	25.92	29.81	35.26
PERCENT	YIELD	UNIT	-----dollars-----										
50	100.00	cwt	-1728 -2178	-1650 -2101	-1560 -2011	-1456 -1906	-1332 -1782	-1183 -1634	-1002 -1452	-775 -1225	-483 -933	-94 -544	450 0
60	120.00	cwt	-1510 -1961	-1417 -1867	-1309 -1759	-1183 -1634	-1035 -1485	-856 -1307	-638 -1089	-366 -817	-16 -466	450 0	1104 653
70	140.00	cwt	-1292 -1743	-1183 -1634	-1058 -1508	-911 -1361	-738 -1188	-530 -980	-275 -726	41 -408	450 0	995 544	1757 1307
80	160.00	cwt	-1074 -1525	-950 -1400	-806 -1257	-638 -1089	-440 -891	-203 -653	87 -363	450 0	917 466	1539 1089	2411 1961
90	180.00	cwt	-856 -1307	-716 -1167	-555 -1005	-366 -817	-143 -594	123 -326	450 0	859 408	1384 933	2084 1634	3065 2614
100	200.00	cwt	-638 -1089	-483 -933	-303 -754	-94 -544	153 -297	450 0	813 363	1267 817	1851 1400	2629 2178	3718 3268
110	220.00	cwt	-421 -871	-249 -700	-52 -502	178 -272	450 0	777 326	1176 726	1676 1225	2318 1867	3174 2723	4372 3922
120	240.00	cwt	-203 -653	-16 -466	199 -251	450 0	747 297	1104 653	1539 1089	2084 1634	2785 2334	3718 3268	5026 4575
130	260.00	cwt	14 -435	217 -233	450 0	722 272	1044 594	1431 980	1903 1452	2493 2042	3251 2801	4263 3813	5679 5229
140	280.00	cwt	232 -217	450 0	701 251	995 544	1341 891	1757 1307	2266 1815	2901 2451	3718 3268	4808 4357	6333 5883
150	300.00	cwt	450 0	683 233	953 502	1267 817	1638 1188	2084 1634	2629 2178	3310 2859	4185 3735	5353 4902	6987 6536

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 2017 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, 2018

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	32,300	600	8	2.57	13.51	4.63	1.00	19.15	6.07	25.22
Tractor (40-59hp)CB	MFWD 50 hp	39,500	600	8	2.57	13.51	4.63	1.23	19.37	7.42	26.80
Tractor (40-59hp)RB	2WD 50 hp	21,100	600	8	2.57	13.51	4.63	0.65	18.80	3.96	22.76
Tractor (40-59hp)RB	MFWD 50 hp	24,800	600	8	2.57	13.51	4.63	0.77	18.91	4.66	23.58
Tractor (60-89hp)CB	2WD 75 hp	49,300	600	8	3.86	13.51	6.94	1.54	21.99	9.27	31.27
Tractor (60-89hp)CB	MFWD 75 hp	52,500	600	8	3.86	13.51	6.94	1.64	22.09	9.87	31.97
Tractor (60-89hp)RB	2WD 75 hp	33,100	600	8	3.86	13.51	6.94	1.03	21.49	6.22	27.71
Tractor (60-89hp)RB	MFWD 75 hp	37,800	600	8	3.86	13.51	6.94	1.18	21.63	7.10	28.74
Tractor(120-139hp)CB	MFWD 130	113,000	600	8	6.69	13.51	12.04	3.53	29.08	21.25	50.33
Tractor(160-179hp)CB	MFWD 170	153,000	600	8	8.75	13.51	15.75	4.78	34.04	30.10	64.14
Utility Vehicle	600CC	8,340	200	8	0.50	13.51	1.05	1.30	15.86	5.14	21.00

## 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, 2018

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	29.99	3.91	1.41	35.32	8.44	43.77
Sprayer 110 gal	30' 47hp	44,600	350	6	2.14	0.035	0.65	0.13	0.11	0.90	0.68	1.59
Sprayer(600-750GAL)	60'	193,000	350	8	5.66	0.017	0.32	0.17	0.18	0.69	1.19	1.89
Truck	1 ton +	334,800	780	5	0.72	1.730	23.37	2.24	10.39	36.01	131.19	167.20
Truck	1/2 ton	29,000	1040	5	1.36	2.310	31.20	6.59	1.93	39.73	11.38	51.11
Utility Vehicle	600 CC	8,340	200	5	0.50	0.250	3.37	0.26	0.52	4.16	1.84	6.00
Utility Vehicle	800CC	10,000	200	8	0.70	0.249	3.37	0.36	0.39	4.13	1.54	5.67

## 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, 2018

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	2,740	81	16	1.617	21.85	11.24	1.64	1.67	36.40	4.65	10.06	51.13
Bd Shaper Melons	Bed 8'cntr	2WD 75 hp	2,740	40	16	0.808	10.92	5.62	1.66	0.83	19.04	4.71	5.03	28.79
Bd Shaper Squash	Bed 5'cntr	2WD 75 hp	2,740	65	16	1.294	17.48	8.99	1.63	1.33	29.45	4.64	8.05	42.14
Bd Shaper Tomato	Bed 6'cntr	2WD 75 hp	2,740	54	16	1.078	14.56	7.49	1.64	1.11	24.82	4.65	6.71	36.18
Bd Shaper/LayCucumbe	Bed 4'cntr	2WD 75 hp	4,280	81	16	1.617	38.64	11.24	2.56	1.67	54.12	7.27	10.06	71.46
Bd Shaper/LayMelon	Bed 8'cntr	2WD 75 hp	4,280	40	16	0.808	19.32	5.62	2.59	0.83	28.37	7.36	5.03	40.77
Bd Shaper/LaySquash	Bed 5'cntr	2WD 75 hp	4,280	65	16	1.294	30.91	8.99	2.55	1.33	43.80	7.25	8.05	59.10
Bd Shaper/LayTomato	Bed 6'cntr	2WD 75 hp	4,280	54	16	1.078	25.76	7.49	2.56	1.11	36.93	7.27	6.71	50.92
Bd Shaper3XCucumber	Bed 4'cntr	2WD 75 hp	7,360	81	16	1.617	38.64	11.24	4.40	1.67	55.96	12.38	10.06	78.42
Bd Shaper3XMelon	Bed 8'cntr	2WD 75 hp	7,360	40	16	0.808	19.32	5.62	4.46	0.83	30.24	12.53	5.03	47.81
Bd Shaper3XSquash	Bed 5'cntr	2WD 75 hp	7,360	65	16	1.294	30.91	8.99	4.39	1.33	45.64	12.34	8.05	66.04
Bd Shaper3XTomato	Bed 6'cntr	2WD 75 hp	7,360	54	16	1.078	25.76	7.49	4.40	1.11	38.78	12.38	6.71	57.87
BS, L,T,Fung BPepper	Bed 6'cntr	2WD 75 hp	6,590	54	16	1.078	48.15	7.49	3.94	1.11	60.70	11.19	6.71	78.61
BS, Lay/Tape BPepper	Bed 6'cntr	2WD 75 hp	4,590	54	16	1.078	14.56	7.49	2.75	1.11	25.92	7.79	6.71	40.44
BS, Lay/Tape/Melon	Bed 8'cntr	2WD 75 hp	4,590	40	16	0.808	10.92	5.62	2.78	0.83	20.16	7.89	5.03	33.10
BS, Lay/Tape/Pumpkin	Bed 8'cntr	2WD 75 hp	4,590	40	16	0.080	1.09	0.56	0.27	0.08	2.01	0.78	0.50	3.30
BS, Lay/Tape/Squash	Bed 5'cntr	2WD 75 hp	4,590	65	16	1.294	17.48	8.99	2.74	1.33	30.55	7.77	8.05	46.38
BS, Lay/Tape/Tomato	Bed 6'cntr	2WD 75 hp	4,590	54	16	1.078	14.56	7.49	2.75	1.11	25.92	7.79	6.71	40.44
BS,Lay/Tape/Cucumber	Bed 4'cntr	2WD 75 hp	4,590	81	16	1.617	21.85	11.24	2.75	1.67	37.51	7.79	10.06	55.38
Chisel Plow	7'	2WD 75 hp	4,940	150	12	0.220	2.97	1.53	0.39	0.22	5.12	0.68	1.37	7.18
Chisel Plow Folding	24'	MFWD 170	39,300	150	12	0.077	1.05	1.22	1.10	0.37	3.75	1.91	2.34	8.00
Cult - Rotary Hoe	12'	2WD 75 hp	5,660	32	27	0.214	2.90	1.49	0.56	0.22	5.18	2.47	1.33	8.99
Cult - Rotary Hoe	15'	2WD 75 hp	5,240	26	27	0.171	2.32	1.19	0.51	0.17	4.20	2.25	1.06	7.53
Cultipacker	12'	2WD 75 hp	6,910	300	12	0.124	1.68	0.86	0.20	0.12	2.87	0.27	0.77	3.93
Cultivate	1-Row	2WD 75 hp	1,330	110	27	0.589	7.96	4.09	0.10	0.60	12.77	0.46	3.66	16.90
Cultivate	2-Row	2WD 75 hp	1,370	59	27	0.312	4.22	2.17	0.10	0.32	6.82	0.47	1.94	9.24
Cultivate	4-Row	2WD 75 hp	1,540	29	10	0.155	2.09	1.07	0.32	0.16	3.66	0.87	0.96	5.49
Cultivate - Heavy	4R-38	2WD 50 hp	12,200	150	10	0.155	2.09	0.71	0.50	0.10	3.42	1.33	0.61	5.36
Cultivate - Heavy	8R-42	MFWD 130	21,600	150	10	0.073	0.99	0.88	0.42	0.26	2.56	1.12	1.56	5.25
Cultivate+App Herb	4-Row	2WD 75 hp	3,820	150	10	0.193	3.62	1.34	0.19	0.20	5.36	0.52	1.20	7.09
Cultivate+App Ins	2-Row	2WD 75 hp	3,650	150	10	0.390	7.30	2.71	0.38	0.40	10.80	1.00	2.43	14.23
Cultivate+App Ins	4-Row	2WD 75 hp	3,820	150	10	0.193	3.62	1.34	0.19	0.20	5.36	0.52	1.20	7.09
Cultivate+Sidedress	2-Row	2WD 75 hp	3,130	39	27	0.390	7.30	2.71	0.46	0.40	10.88	2.04	2.43	15.36
Cultivate+Sidedress	4-Row	2WD 75 hp	5,570	19	27	0.193	3.62	1.34	0.84	0.20	6.01	3.70	1.20	10.92
Disc Mower	10'	2WD 75 hp	12,800	200	8	0.206	2.78	1.43	1.65	0.21	6.08	1.83	1.28	9.20
Disk + Incorporate	10'	2WD 75 hp	15,400	200	10	0.206	3.85	1.43	0.95	0.21	6.45	1.67	1.28	9.41
Disk + Incorporate	14'	2WD 75 hp	30,100	200	10	0.147	2.75	1.02	1.33	0.15	5.26	2.34	0.91	8.52
Disk Bed	2-Row	2WD 75 hp	4,630	160	10	0.284	3.83	1.97	0.24	0.29	6.35	0.96	1.76	9.08
Disk Bed	4-Row	2WD 75 hp	8,800	160	10	0.140	1.90	0.97	0.31	0.14	3.34	0.81	0.87	5.03
Disk Bed (Hipper)fld	8R-40	MFWD 130	20,000	160	10	0.070	0.95	0.84	0.35	0.24	2.40	0.93	1.49	4.83
Disk Bed + Spray PD	8R-40	MFWD 130	25,400	160	10	0.070	0.95	0.84	0.44	0.24	2.49	1.18	1.49	5.17
Disk Bed +App Fert	4-Row	2WD 75 hp	12,830	160	10	0.140	2.63	0.97	0.45	0.14	4.21	1.19	0.87	6.28
Disk Harrow	5'	2WD 75 hp	2,070	180	10	0.412	5.57	2.86	0.23	0.42	9.10	0.50	2.56	12.17
Disk Harrow	10'	2WD 75 hp	10,100	180	10	0.198	2.67	1.37	0.55	0.20	4.81	1.17	1.23	7.22
Disk Harrow	10'	2WD 75 hp	10,100	180	10	0.198	2.67	1.37	0.55	0.20	4.81	1.17	1.23	7.22
Disk Harrow	14'	2WD 75 hp	24,800	180	10	0.141	1.91	0.98	0.97	0.14	4.02	2.06	0.88	6.96
Disk Harrow	24'	MFWD 170	41,500	180	10	0.082	1.11	1.30	0.95	0.39	3.76	2.01	2.48	8.26
Ditcher		2WD 50 hp	5,700	200	10	0.020	0.27	0.09	0.04	0.01	0.42	0.06	0.07	0.56
Fert-Cyclone Spin	750 lb	2WD 75 hp	1,280	50	8	0.084	1.13	0.58	0.08	0.08	1.89	0.29	0.52	2.71
Fert-Side Dresser	1R 3'	2WD 75 hp	3,860	42	10	0.846	11.43	5.87	2.33	0.87	20.51	9.14	5.26	34.92
Fert-Side Dresser	2R 6'	2WD 75 hp	4,670	21	10	0.423	5.71	2.93	2.82	0.43	11.91	11.06	2.63	25.61
Fert-Side Dresser	4R-40	2WD 75 hp	6,450	10	10	0.195	2.63	1.35	3.77	0.20	7.97	14.80	1.21	23.99
Fert-Sprd Pull Type	6'	2WD 75 hp	3,950	10	10	0.392	5.30	2.72	4.65	0.40	13.09	18.24	2.44	33.79
Fert-Sprd Pull Type	8'	2WD 75 hp	4,150	15	10	0.294	3.98	2.04	2.44	0.30	8.77	9.58	1.83	20.19
Fert-Sprd Pull Type	10'	2WD 75 hp	4,540	12	10	0.235	3.18	1.63	2.67	0.24	7.74	10.48	1.46	19.69
Fert-Sprd Pull Type	12'	2WD 75 hp	4,950	10	10	0.196	2.65	1.36	2.91	0.20	7.13	11.43	1.22	19.79
Front End Loader	.5yd	2WD 75 hp	5,430	100	10	0.600	8.10	4.16	0.97	0.62	13.87	3.96	3.73	21.56
Harvester,Swt.Potato	2 Row	MFWD 170	34,000	300	15	1.011	76.62	15.92	6.72	4.83	104.10	10.24	30.43	144.78
Mulch Lifter	1-Row	2WD 75 hp	2,230	29	30	0.589	7.96	4.09	0.15	0.60	12.81	2.67	3.66	19.15
Mule Train (Corn)	30'	MFWD 75 hp	69,900	12	25	0.200	89.89	1.38	11.65	0.23	103.16	72.89	1.42	177.48
Mule Train (corn)	30'	2WD 75 hp	69,900	12	25	0.500	224.73	3.47	29.12	0.51	257.85	182.23	3.11	443.20
Picker Beans/Peas	1-Row	2WD 75 hp	43,000	179	10	3.571	122.39	24.81	60.05	3.69	210.95	42.89	22.23	276.08
Picker Corn	1-Row	2WD 75 hp	50,000	42	10	0.840	11.35	5.83	30.01	0.86	48.07	50.02	5.23	103.32
Plastic Layer Melon	Bed 8'cntr	2WD 75 hp	2,580	40	16	0.808	10.92	5.62	1.56	0.83	18.94	4.43	5.03	28.42
Plastic Layer Squash	Bed 5'cntr	2WD 75 hp	2,580	65	16	1.294	17.48	8.99	2.56	1.33	30.38	4.37	8.05	42.80
Plastic Layer Tomato	Bed 6'cntr	2WD 75 hp	2,580	54	16	1.078	14.56	7.49	2.57	1.11	25.75	4.38	6.71	36.85
Plastic Lyr Cucumber	Bed 4'cntr	2WD 75 hp	2,580	81	16	1.617	21.85	11.24	2.57	1.67	37.34	4.38	10.06	51.79
Plntr - Vacuum	1-Row	2WD 75 hp	6,270	53	18	1.057	14.28	7.34	6.25	1.09	28.98	9.94	6.58	45.52
Plntr - Vacuum	2-Row	2WD 75 hp	7,470	20	18	0.396	5.35	2.75	7.40	0.41	15.93	11.77	2.46	30.17
Plntr - Vacuum	4-Row	2WD 75 hp	16,900	11	18	0.226	3.06	1.57	17.41	0.23	22.28	27.68	1.41	51.37
Plntr - Vacuum+Ins	1-Row	2WD 75 hp	7,340	53	18	1.057	14.28	7.34	7.32	1.09	30.05	11.64	6.58	48.28

(continued)

Table 3. Implements: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		--Fixed--		Total Cost	
									Imp.	P.U.	Direct	Imp.		P.U.
			dollars	hours	years	hr/ac	-----\$/acre-----							
Plntr - Vacuum+Ins	2R 30-40	2WD 75 hp	9,995	20	18	0.396	5.35	2.75	9.91	0.41	18.43	15.75	2.46	36.66
Plntr - Vacuum+Ins	4R 30-40	2WD 75 hp	18,500	11	18	0.226	3.06	1.57	19.05	0.23	23.93	30.30	1.41	55.64
Plntr - Vacuum+Ins	Bed 4'cntr	2WD 75 hp	7,340	40	18	0.793	10.71	5.51	7.27	0.82	24.32	11.57	4.93	40.83
Plntr - Vacuum+Ins	Bed 5'cntr	2WD 75 hp	7,340	32	18	0.634	8.57	4.40	7.27	0.65	20.91	11.57	3.95	36.44
Plntr - Vacuum+Ins	Bed 6'cntr	2WD 75 hp	7,340	26	18	0.528	7.14	3.67	7.46	0.54	18.83	11.86	3.29	33.99
Plntr - Vacuum+Ins	Bed 8'cntr	2WD 75 hp	7,340	20	18	0.396	5.35	2.75	7.27	0.41	15.80	11.57	2.46	29.84
Plntr/H2O Cucumber	1R 4'cntr	2WD 75 hp	2,560	129	17	2.578	115.11	17.91	2.55	2.66	138.25	4.14	16.04	158.44
Plntr/H2O Cucumber	2R 4'cntr	2WD 75 hp	5,550	129	17	1.289	84.31	8.95	2.77	1.33	97.38	4.48	8.02	109.89
Plntr/H2O Melon	1R 8'cntr	2WD 75 hp	2,560	64	17	0.645	28.80	4.48	1.29	0.66	35.24	2.08	4.01	41.35
Plntr/H2O Melon	2R 8'cntr	2WD 75 hp	5,550	64	17	0.644	42.15	4.47	2.79	0.66	50.09	4.52	4.01	58.63
Plntr/H2O Squash	1R 5'cntr	2WD 75 hp	2,560	103	17	2.062	92.09	14.33	2.56	2.13	111.11	4.15	12.83	128.10
Plntr/H2O Squash	2R 5'cntr	2WD 75 hp	5,550	103	17	1.031	67.45	7.16	2.77	1.06	78.46	4.49	6.41	89.38
Plntr/H2O Tomato	1R 6'cntr	2WD 75 hp	2,560	86	17	1.718	76.74	11.94	2.55	1.77	93.02	4.14	10.69	107.86
Plntr/H2O Tomato	2R 6'cntr	2WD 75 hp	5,550	86	17	0.859	56.21	5.97	2.77	0.88	65.84	4.48	5.34	75.68
Plntr/H2O Wheel	2-Row	2WD 75 hp	5,550	74	17	1.473	96.36	10.23	5.52	1.52	113.64	8.94	9.17	131.76
Plntr/H2O/pnch/seed	1-Row	2WD 75 hp	5,090	129	17	2.578	61.59	17.91	5.08	2.66	87.25	8.23	16.04	111.54
Plntr/H2O/pnch/seed	2R 18-60	2WD 75 hp	8,140	129	17	1.586	37.90	11.02	5.00	1.64	55.57	8.10	9.87	73.55
Plntr/Transplant-H2O	4R 36-48	2WD 75 hp	17,400	34	17	0.687	73.51	4.77	0.41	0.71	79.41	28.34	4.27	112.04
Plntr/Transplanter	1-Row	2WD 75 hp	2,820	31	19	1.586	70.83	11.02	0.15	1.64	83.65	11.13	9.87	104.67
Plntr/Transplanter	4R 36-48	2WD 75 hp	13,900	300	19	0.687	73.51	4.77	0.03	0.71	79.03	2.45	4.27	85.77
Plntr/Transplanter	8R-42	MFWD 170	20,640	150	19	0.333	57.83	5.25	0.04	1.59	64.72	3.53	10.03	78.30
Rotary Cutter	7'	2WD 75 hp	4,690	185	10	0.169	2.28	1.17	0.64	0.17	4.28	0.45	1.05	5.79
Rotary Tiller	5'	2WD 75 hp	2,130	49	18	0.970	13.11	6.74	2.95	1.00	23.81	3.33	6.04	33.19
Spray (Broadcast)	27'	2WD 75 hp	5,350	200	8	0.062	1.17	0.43	0.15	0.09	1.86	0.18	0.58	2.63
Spray (Broadcast)	60'	MFWD 130	17,800	200	8	0.028	0.52	0.33	0.23	0.09	1.20	0.28	0.59	2.08
Spray Boom	12/17'	2WD 75 hp	2,280	200	8	0.099	1.86	0.69	0.10	0.10	2.76	0.12	0.61	3.51
Sprayer Air Blast	16' 100 ga	2WD 75 hp	9,848	12	16	0.245	3.31	1.70	10.07	0.25	15.35	17.48	1.52	34.36
Sprayer Air Blast	16' 200 ga	2WD 75 hp	14,735	12	16	0.245	3.31	1.70	15.07	0.25	20.35	26.16	1.52	48.04
Stalk Shredder-Flail	15'	2WD 50 hp	22,100	185	10	0.110	1.49	0.51	0.52	0.07	2.61	1.55	0.44	4.61
Sub-Soiler	1 shank	2WD 75 hp	955	54	23	1.078	14.56	7.49	0.57	1.11	23.75	1.34	6.71	31.81
Sub-Soiler	2 shank	2WD 75 hp	1,870	20	23	0.404	5.46	2.81	1.13	0.41	9.82	2.67	2.51	15.01
Take Up Reel (M&T)	1-Row	2WD 75 hp	2,850	42	10	0.588	7.94	4.08	1.19	0.60	13.84	4.72	3.66	22.22
Take Up Reel (Mulch)	1-Row	2WD 75 hp	1,400	42	10	0.588	7.94	4.08	0.58	0.60	13.23	2.32	3.66	19.21
Trailer - Snap Bean	16'	2WD 75 hp	2,036	179	15	3.571	85.32	24.81	2.16	3.69	115.99	3.63	22.23	141.86
Trailer - Vegetables	16'	2WD 75 hp	2,036	200	15	0.090	2.15	0.62	0.04	0.09	2.91	0.08	0.56	3.55
Trailer Utility	10'	2WD 50 hp	1,185	200	15	0.600	8.10	2.77	0.09	0.39	11.37	0.31	2.38	14.07
Trailer Water	10'	2WD 50 hp	1,185	150	10	0.600	8.10	2.77	0.18	0.39	11.47	0.55	2.38	14.40
Trailer(MuleTrn)Corn	16'	2WD 75 hp	2,036	12	15	0.229	7.85	1.59	2.07	0.23	11.75	3.47	1.42	16.65
Trailer-Lima/B. Bean	16'	2WD 75 hp	2,036	179	15	3.571	85.32	24.81	2.16	3.69	115.99	3.63	22.23	141.86
Trailer-Southern Pea	16'	2WD 75 hp	2,036	179	15	3.571	85.32	24.81	2.16	3.69	115.99	3.63	22.23	141.86
Trailer-Sweet Potato	16'	MFWD 130	2,036	12	15	0.598	8.08	7.21	5.41	2.11	22.83	9.08	12.72	44.64

## 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, 2018

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANT					
Crop Oil Conc. (Veg)	pt	2.61	Imidan 70 WSB	lb	10.79
CUSTOM					
Contract Plt BPepper	1000pl	13.75	Lorsban 15G	lb	2.35
Custom Apply Fert	acre	7.00	Lorsban 4E	pt	6.10
Custom Haul Swt. Pot	acre	70.00	Mustang Max	oz	1.34
Custom Skid Loader-2	acre	13.63	Oberon 2SC	oz	4.24
CustomHarvest Tomato	box	1.00	Poncho	lbseed	0.73
Fuel Skid Loader (2)	acre	7.10	Radiant 1SC	oz	6.82
Scouting Sweetpotato	acre	15.00	Tombstone	oz	0.98
Trapping	acre	1.00	Trimax	oz	3.33
FERTILIZER					
AMM Sulfate 33%	cwt	22.50	IRRIGATION SUPPLIES		
Boron (15G Sol)	lb	0.75	Adapter(Reg to Head)	1 1/2"	5.64
Calcium Nitrate	lb	0.29	Barb Lock Sleeve	1/4"	0.54
Fert 13-13-13	cwt	21.58	Cost of PumpingWater	6" in	24.00
Fert 15-30-15	lb	0.58	Coupler	5/8"	0.58
Fert 5-20-30+S+B	cwt	23.54	Drip Tape	roll	173.70
Lime (Spread)	ton	46.00	End Plug for Header	1 1/2"	3.77
Phosphorus(46% P205)	cwt	18.75	Feeder Tube	ft	0.11
Potash (60% K20)	cwt	22.20	Fertigation System	each	47.37
FUNGICIDE					
Blocker 10G	lb	1.24	Header Line 1 1/2"	ft	0.39
Bravo Weather Stick	pt	6.56	Hole Punch	1/4"	4.68
Captan 50 WP	lb	4.93	Hose Clamp	1 1/2"	1.05
Dithane Rainshield	lb	4.08	Pressure Regulator	12 PSI	41.60
Headline EC	oz	2.63	PVC Female Adaptor	1 1/2"	5.64
Kocide 2000	lb	6.27	PVC Fitting (adpt)	1 1/2"	2.08
Quadris	oz	2.14	PVC Fitting (bush)	1 1/2"	3.37
Ridomil Gold SL	oz	6.42	Rural Water	ac-in	110.97
Tilt	oz	0.75	Transfer Barb	1/4"	0.23
Topsin 4.5L	oz	0.61	Y Filter	1"	23.16
HERBICIDE					
Assure 1l	oz	0.74	OTHER		
Basagran	pt	12.31	1.75bu tub Bell Pepp	each	27.75
Bicep II Magnum	pt	5.51	5-Gal Bucket	each	4.00
Command 3ME	pt	19.43	Bin Repair	each	1.50
Dual II Magnum	pt	14.83	Bin Sweetpotato20 bu	each	57.00
Dual Magnum	pt	13.80	Bins/Stacking 25bu	each	20.30
Fusilade DX	oz	1.00	Bins/Stacking 25bu	each	20.30
Glyphosate 3lbs a.e.	pt	2.17	Box Cabbage	each	2.69
Glyphosate 3lbs a.e.	oz	0.14	Box Sweetpotato	each	1.67
Gly Star Plus	pt	2.17	Box Tomato	box	1.69
			Boxes-Waxed	each	1.82
Goal 2XL	pt	9.89	Bushel Box	each	1.50
Gramoxone SL 2.0	oz	0.15	Clean, grade, pack	box	2.59
Lorox 50 DF	lb	24.12	Clean, grade, pack	lb	0.01
Outlook	pt	17.47	Cooling Box - Greens	box	1.37
Permit 75DF	oz	22.43	Cooling Snap Beans	bu box	1.37
Poast 1.53	pt	12.77	CoolingBox S.Cabbage	box	1.37
Roundup Power Max	pt	2.72	Crate Sweetpotato	each	8.00
Roundup Power Max	oz	0.17	Crates - Sweet Corn	each	2.35
Roundup WeatherMax	pt	4.16	Grd & Pack S.Cabbage	box	1.81
Roundup WeatherMax	oz	0.26	Hand Weeding Swt.Pot	acre	25.65
Sandea	oz	39.90	Harv.Labor S.Cabbage	box	1.75
Select MAX	oz	0.79	Harvest Labor Melons	cwt	2.57
Strategy	pt	9.78	Harvest Labor Pepper	bu	0.90
Treflan	pt	3.52	Ice	cwt	13.00
Valor SX	oz	4.57	Ice + Cooling	crate	1.29
INSECTICIDE					
Acephate	lb	7.43	Ice + Cooling	box	1.38
Admire Pro	oz	1.70	Labor Clean up	acre	160.00
Agri-Mek 15EC	oz	2.54	Labor(Packing)	each	1.00
Asana XL	oz	0.58	Marketing Fee	box	1.00
Assail 30 SG	oz	5.93	Pallet Crates-1350lb	each	20.66
Avaunt 30 WDG	oz	6.89	Plastic Mulch	roll	285.00
Brigade 2EC	oz	0.74	Plastic string	6000'	10.50
Gaucho 600	oz	2.35	Sacks - S Peas	each	0.42
			Soil Test	each	6.00
			Soil Test Probe	each	75.00
			Sweet Potato Broker	box	1.00

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2018 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Sweetpotato Storage	cwt	2.00	Okra - OP	lb	7.87
Wood Stakes	100	73.00	Pepper Plants	100plt	11.04
SEED/PLANTS			Peppers - OP	lb	167.00
Broccoli - Hybrid	lb	1141.00	Peppers-hybrid	lb	5129.00
Broccoli Plants	thous	40.32	Pumpkin Seed Hybrid	lb	109.00
Cabbage - Hybrid	lb	773.00	Snap Beans - Hybrid	lb	5.77
Cabbage Plants	thous	35.61	Southern Peas - OP	lb	4.55
Collard Seed - OP	lb	11.05	Squash - Hybrid	lb	220.00
Collard Seed -Hybrid	lb	247.00	Sweet Corn - Hybrid	lb	18.22
Cucumber - Hybrid	lb	194.00	Sweetpotato Plants	thous	32.50
Greens - Hybrid	lb	119.00	Tomato - Hybrid	lb	10080.00
Greens - OP	lb	10.55	Tomato Plants-Hybrid	thous	97.67
Lima Bean - Hybrid	lb	4.02	Turnip - Hybrid	lb	91.86
Mustard Seed - OP	lb	17.12	Turnip Seed - OP	lb	10.05
Mustard Seed -Hybrid	lb	90.35	Watermelon - Diploid	lb	738.00
Okra - Hybrid	lb	205.00	Watermelon -Triploid	thous	217.00

Appendix Table 5. Estimated fuel prices  
and interest ratesMississippi, 2018

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	1.80
Electricity	kWh	0.00
Gasoline	gal	2.10
LP Gas	gal	1.65
Natural Gas	Mcf	0.00
INTEREST RATES		
Short-term	%	4.75
Intermediate-term	%	5.00

Appendix Table 6. Labor names, units and wage rates, Mississippi, 2018

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	13.51
HARVEST LABOR	hour	10.38
PLANTING LABOR	hour	10.38
GRADE & PACK LABOR	hour	10.38
MARKETING LABOR	hour	10.38
HAND & STOR LABOR	hour	10.38
HAND LABOR	hour	10.38
FERTIGATION LABOR	hour	10.38
HARVEST & PACK LABOR	hour	10.38
HARVEST LABOR BEANS	hour	10.38
LABOR BEAN TRAILER	hour	10.38
GRD LABORPEAS	hour	10.38
LABOR S.PEA TRAILER	hour	10.38
LABOR CABGETRAILER	hour	10.38
LABOR MULCH CLEANUP	hour	10.38
GRD LABORLIMA BEANS	hour	10.38
GRD LABORS. BEANS	hour	10.38
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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	47.37	1.0000	47.37	_____
Barb Lock Sleeve	1/4"	0.54	45.0000	24.30	_____
Transfer Barb	1/4"	0.23	45.0000	10.35	_____
Feeder Tube	ft	0.11	50.0000	5.60	_____
Header Line 1 1/2"	ft	0.39	300.0000	118.50	_____
Adapter(Reg to Head)	1 1/2"	5.64	1.0000	5.64	_____
End Plug for Header	1 1/2"	3.77	1.0000	3.77	_____
Hose Clamp	1 1/2"	1.05	2.0000	2.10	_____
Pressure Regulator	12 PSI	41.60	1.0000	41.60	_____
PVC Female Adaptor	1 1/2"	5.64	1.0000	5.64	_____
Y Filter	1"	23.16	1.0000	23.16	_____
PVC Fitting (bush)	1 1/2"	3.37	1.0000	3.37	_____
PVC Fitting (adpt)	1 1/2"	2.08	1.0000	2.08	_____
Hole Punch	1/4"	4.68	1.0000	4.68	_____
Coupler	5/8"	0.58	4.0000	2.32	_____
				-----	
TOTAL DIRECT EXPENSES				300.48	_____
				-----	
TOTAL INTEREST				15.02	_____
				-----	
TOTAL SPECIFIED EXPENSES				315.50	_____

Note: Cost of production estimates are based on 2017 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 \$315.50 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	47.37	1.0000	47.37	_____
Barb Lock Sleeve	1/4"	0.54	40.0000	21.60	_____
Transfer Barb	1/4"	0.23	40.0000	9.20	_____
Feeder Tube	ft	0.11	50.0000	5.60	_____
Header Line 1 1/2"	ft	0.39	300.0000	118.50	_____
Adapter(Reg to Head)	1 1/2"	5.64	1.0000	5.64	_____
End Plug for Header	1 1/2"	3.77	1.0000	3.77	_____
Hose Clamp	1 1/2"	1.05	2.0000	2.10	_____
Pressure Regulator	12 PSI	41.60	1.0000	41.60	_____
PVC Female Adaptor	1 1/2"	5.64	1.0000	5.64	_____
Y Filter	1"	23.16	1.0000	23.16	_____
PVC Fitting (bush)	1 1/2"	3.37	1.0000	3.37	_____
PVC Fitting (adpt)	1 1/2"	2.08	1.0000	2.08	_____
Hole Punch	1/4"	4.68	1.0000	4.68	_____
Coupler	5/8"	0.58	4.0000	2.32	_____
				-----	
TOTAL DIRECT EXPENSES				296.63	_____
				-----	
TOTAL INTEREST				14.83	_____
				-----	
TOTAL SPECIFIED EXPENSES				311.46	_____

Note: Cost of production estimates are based on 2017 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 \$311.46 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, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
IRRIGATION SUPPLIES					
Fertigation System	each	47.37	1.0000	47.37	_____
Barb Lock Sleeve	1/4"	0.54	30.0000	16.20	_____
Transfer Barb	1/4"	0.23	30.0000	6.90	_____
Feeder Tube	ft	0.11	50.0000	5.60	_____
Header Line 1 1/2"	ft	0.39	300.0000	118.50	_____
Adapter(Reg to Head)	1 1/2"	5.64	1.0000	5.64	_____
End Plug for Header	1 1/2"	3.77	1.0000	3.77	_____
Hose Clamp	1 1/2"	1.05	2.0000	2.10	_____
Pressure Regulator	12 PSI	41.60	1.0000	41.60	_____
PVC Female Adaptor	1 1/2"	5.64	1.0000	5.64	_____
Y Filter	1"	23.16	1.0000	23.16	_____
PVC Fitting (bush)	1 1/2"	3.37	1.0000	3.37	_____
PVC Fitting (adpt)	1 1/2"	2.08	1.0000	2.08	_____
Hole Punch	1/4"	4.68	1.0000	4.68	_____
Coupler	5/8"	0.58	4.0000	2.32	_____
				-----	
TOTAL DIRECT EXPENSES				288.93	_____
				-----	
TOTAL INTEREST				14.45	_____
				-----	
TOTAL SPECIFIED EXPENSES				303.38	_____

Note: Cost of production estimates are based on 2017 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 \$303.38 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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