

**COTTON- Strip-Till, Irrigated**  
**2018 ESTIMATED PER ACRE COSTS AND RETURNS, SOUTH AND EAST GEORGIA**

<b>Seed Technology:</b>	*B2RF, B2XF, WRF, GLT, or GLB2	<b>Row Spacing:</b>	<b>36</b>
<b>Tillage:</b>	Strip-Till	<b>Seed Per Foot:</b>	<b>2.75</b>
<b>Production:</b>	Irrigated	<b>Seed Per Acre:</b>	<b>39,930</b>

	Lbs/Acre	Avg Price **	Income/Ac	Cents/Lb
<b>EXPECTED INCOME</b>	1200	0.730	<b>\$876.00</b>	<b>73.00</b>

<b>VARIABLE COST</b>	<b>Unit</b>	<b>No. Units</b>	<b>Price/Unit</b>	<b>Cost/Acre</b>	<b>Cents/Lb</b>
Land Rent	Acre	1	0.00	0.00	0.00
Crop Insurance (Excluding STAX)	Acre	1	8.00	8.00	0.67
Seed (Including Tech Fees and Seed Treatments)	1,000 seed	39.93	2.76	110.21	9.18
Lime- Custom Spread	Ton	0.33	43.00	14.19	1.18
<b>Fertilizers</b>					
Nitrogen	Lbs	90	0.44	39.60	3.30
Phosphate (P2O5)	Lbs	70	0.38	26.60	2.22
Potash (K2O)	Lbs	70	0.29	20.30	1.69
Chicken Litter- Custom Spread	Tons	0	44.00	0.00	0.00
Boron, Sulfur, and Others	Acre	1	5.00	5.00	0.42
<b>Weed Control</b>					
Burndown	Acre	1	12.89	12.89	1.07
At Planting or PRE	Acre	1	9.67	9.67	0.81
POST	Acre	1	35.24	35.24	2.94
Layby	Acre	1	13.54	13.54	1.13
Hand Weeding	Acre	1	10.00	10.00	0.83
<b>Insect Control</b>					
Scouting	Acre	1	10.00	10.00	0.83
In-Furrow (If no seed treatment used)	Lbs	0	0.00	0.00	0.00
Spray- Caterpillar Pests	Applications	0	0.00	0.00	0.00
Spray- Stink Bugs, Other Pests	Applications	2	5.50	11.00	0.92
Nematicide (If no seed treatment used)	Acre	1	0.00	0.00	0.00
Fungicide (If no seed treatment used)	Acre	1	0.00	0.00	0.00
PGR	Ounces	36	0.051	1.84	0.15
Defoliant and Boll Opener	Acre	1	12.33	12.33	1.03
Irrigation	Applications	7	8.90	62.30	5.19
<b>Machinery and Equipment</b>					
Fuel and Lube	Gal	11.10	2.25	24.98	2.08
Repairs and Maintenance	Acre	1	27.41	27.41	2.28
Custom Spray Applications	Applications	0	0.00	0.00	0.00
Custom Picking	Acre	1	0.00	0.00	0.00
Labor	LT/MT	1.65			
	Hrs	1.71	13.00	22.18	1.85
Interest on Operating	Months	6			
		\$477.27	0.50	6.00%	14.32
<b>Ginning and Warehousing</b>					
Ginning	Lbs	1200	0.080	96.00	8.00
Other (Hauling, Etc.)	Bale	2.42	0.00	0.00	0.00
Storage and Warehousing	Bale	2.42	10.50	25.40	2.12
Promotions, Boards, Classing	Bale	2.42	6.06	14.66	1.22
Cottonseed Credit	Gin T/O	40%	125.00	-93.75	-7.81
BWEP	Bale	2.42	0.75	1.81	0.15

<b>TOTAL VARIABLE COSTS</b>	<b>\$535.72</b>	<b>44.64</b>
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<b>NET RETURN ABOVE VARIABLE COST</b>	<b>\$340.28</b>	<b>28.36</b>
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Tractors and Sprayer	Acre	1	49.49	49.49	4.12
Equipment/Implements	Acre	1	5.87	5.87	0.49
Irrigation	Acre	1	130.00	130.00	10.83
Picker/BB/MB	Acre	1	72.06	72.06	6.00
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$535.72	5.0%	26.79	2.23
Management	% of Var Costs	\$535.72	5.0%	26.79	2.23

<b>TOTAL FIXED COSTS</b>	<b>\$310.99</b>	<b>25.92</b>
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<b>TOTAL COST</b>	<b>\$846.71</b>	<b>70.56</b>
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<b>NET RETURN</b>	<b>\$29.29</b>	<b>2.44</b>
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\* This does not constitute a recommendation of technologies. These were the technologies most widely planted in GA in 2017.  
 \*\* Planning or budget price based on futures prices and outlook as of March 2018. Includes adjustments for fiber quality.

**COTTON- Strip-Till, Irrigated**  
**2018 ESTIMATED PER ACRE COSTS AND RETURNS, SOUTH AND EAST GEORGIA**

**PER ACRE NET RETURN ABOVE VARIABLE COST AT VARIOUS PRICES, YIELD, and RENT**

Rent/Ac	0.680			0.730			0.780		
	1000	1200	1400	1000	1200	1400	1000	1200	1400
150	-2.86	125.78	254.43	47.14	185.78	324.43	97.14	245.78	394.43
175	-28.61	100.03	228.68	21.39	160.03	298.68	71.39	220.03	368.68
200	-54.36	74.28	202.93	-4.36	134.28	272.93	45.64	194.28	342.93
225	-80.11	48.53	177.18	-30.11	108.53	247.18	19.89	168.53	317.18
250	-105.86	22.78	151.43	-55.86	82.78	221.43	-5.86	142.78	291.43

Acres of This Crop	1,000	Fixed Costs Per Year			Fixed Costs Share For This Crop				Repairs and Maintenance			
New Price	% FC	Total FC	Hrs Use	FC/Hr	% Use	Hrs Use	Hrs/Ac	FC/Acre	Est RM	This Crop	Per Acre	
<b>Tractors</b>												
230 HP	223000	11.61	25890	400	64.73	50	200	0.200	12.95	6000	3000	3.00
190 HP	186000	11.61	21595	500	43.19	65	325	0.325	14.04	4900	3185	3.19
110 HP	78000	11.61	9056	500	18.11	35	175	0.175	3.17	2000	700	0.70
<b>Hi-clearance sprayer</b>												
	195000	14.17	27632	250	110.53	70	175	0.175	19.34	5300	3710	3.71
<b>Picker</b>												
	465000	13.81	64217	170	377.74	100	170	0.170	64.22	12800	12800	12.80
<b>Totals</b>			<b>148389</b>				<b>113710</b>		<b>113.71</b>	<b>31000</b>	<b>23395</b>	<b>23.40</b>

Fuel Cost Per Gallon	\$2.25														
Job or Implement- Size	Total Farm			Fixed Costs Per Year			Fixed Costs This Crop		Repairs and Maintenance			Fuel and Lube			
	Acres/Yr*	HP Used	Acres/Hr	New Price	% FC	Total FC	% Use	FC/Acre	Est RM	This Crop	Per Acre	Hrs/Ac	Gal/Hr	Cost/Ac	
Spray 60 ft- burndown	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Strip/rip/plant- 6-row with PRE	2000	230	10.5	50000	12.25	6125	50	3.06	1500	750	0.75	0.095	10.12	2.49	
Spray 60 ft POST 1	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Spray 60 ft POST 2	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Side dress	1300	190	12.5	17000	12.25	2083	70	1.46	425	298	0.30	0.080	8.36	1.73	
Spray- Layby DIRECTED 8 row	1300	190	12.5	12500	12.25	1531	70	0.00	315	221	0.22	0.080	8.36	1.73	
Spray 60 ft- pgr	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Spray 60 ft- insecticide	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Spray 60 ft- insecticide+pgr	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
Spray 60 ft- defoliate	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.57	
						0		0.00		0	0.00		0.00		
						0		0.00		0	0.00		0.00		
						0		0.00		0	0.00		0.00		
Picker- 6 row	1000	350	5.90			0		0.00		0	0.00	0.169	15.40	6.75	
Boll Buggy	1000	190	5.90	30000	12.25	3675	100	3.68	800	800	0.80	0.169	8.36	3.67	
Module Builder	1000	110	5.90	34000	12.25	4165	100	4.17	950	950	0.95	0.169	4.84	2.12	
Stalk puller/chopper- 6 row	1000	230	10.5	36000	12.25	4410	100	4.41	1000	1000	1.00	0.095	10.12	2.49	
						0		0.00		0	0.00		0.00		
<b>Totals</b>						<b>17842</b>		<b>16.77</b>	<b>4990</b>	<b>4018</b>	<b>4.02</b>	<b>1.034</b>		<b>24.98</b>	

\* All acres for the implement including multiple trips over the field. Disking 1,500 acres 2 times would be 3,000 acres total. Spraying 1,500 acres 6 times would be 9,000 acres.

Developed by Don Shurley, Amanda Smith, and Yangxuan Liu Department of Agricultural and Applied Economics, University of Georgia.

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