

COTTON- Strip-Till, Non-Irrigated

2017 ESTIMATED PER ACRE COSTS AND RETURNS, SOUTH AND EAST GEORGIA

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

EXPECTED INCOME	Lbs/Acre	Avg Price **	Income/Ac	Cents/Lb
	750	0.725	\$543.75	72.50

VARIABLE COST	Unit	No. Units	Price/Unit	Cost/Acre	Cents/Lb
Land Rent	Acre	1	0.00	0.00	0.00
Crop Insurance (Excluding STAX)	Acre	1	16.00	16.00	2.13
Seed (Including Tech Fees and Seed Treatments)	1,000 seed	39.93	2.76	110.21	14.69
Lime- Custom Spread	Ton	0.33	42.00	13.86	1.85
Fertilizers					
Nitrogen	Lbs	60	0.42	25.20	3.36
Phosphate (P2O5)	Lbs	50	0.39	19.50	2.60
Potash (K2O)	Lbs	50	0.28	14.00	1.87
Chicken Litter- Custom Spread	Tons	0	44.00	0.00	0.00
Boron, Sulfur, and Others	Acre	1	5.50	5.50	0.73
Weed Control					
Burndown	Acre	1	17.08	17.08	2.28
At Planting or PRE	Acre	1	8.61	8.61	1.15
POST	Acre	1	40.08	40.08	5.34
Layby	Acre	1	15.20	15.20	2.03
Hand Weeding	Acre	1	10.00	10.00	1.33
Insect Control					
Scouting	Acre	1	10.00	10.00	1.33
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	4.98	9.96	1.33
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	26	0.055	1.43	0.19
Defoliant and Boll Opener	Acre	1	8.78	8.78	1.17
Machinery and Equipment					
Fuel and Lube	Gal	10.83	1.90	20.58	2.74
Repairs and Maintenance	Acre	1	27.41	27.41	3.66
Custom Spray Applications	Applications	0	0.00	0.00	0.00
Custom Picking	Acre	1	0.00	0.00	0.00
Labor	LT/MT	1.55	1.56	19.56	2.61
Interest on Operating	Months	6	\$392.95	0.50	6.50%
Interest on Operating				12.77	1.70
Ginning and Warehousing					
Ginning	Lbs	750	0.080	60.00	8.00
Other (Hauling, Etc.)	Bale	1.51	0.00	0.00	0.00
Storage and Warehousing	Bale	1.51	10.50	15.88	2.12
Promotions, Boards, Classing	Bale	1.51	5.95	8.99	1.20
Cottonseed Credit	Gin T/O	40%	0.47	175.00	-82.03
Cottonseed Credit	Ton				-10.94
BWEP	Bale	1.51	0.75	1.13	0.15

TOTAL VARIABLE COSTS	\$409.70	54.63
NET RETURN ABOVE VARIABLE COST	\$134.05	17.87

Tractors and Sprayer	Acre	1	49.49	49.49	6.60
Equipment/Implements	Acre	1	5.87	5.87	0.78
Picker/BB/MB	Acre	1	72.06	72.06	9.61
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$409.70	5.0%	20.48	2.73
Management	% of Var Costs	\$409.70	5.0%	20.48	2.73

TOTAL FIXED COSTS	\$168.39	22.45
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TOTAL COST	\$578.09	77.08
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NET RETURN	-\$34.34	-4.58
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* This does not constitute a recommendation of technologies. These were the technologies most widely planted in GA in 2016.

** Planning or budget price based on futures prices and outlook as of February 2017. Includes adjustments for fiber quality.

Developed by Don Shurley and Amanda Smith
February 2017

Funding support provided by the Georgia Cotton Commission



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

Rent/Ac	0.675			0.725			0.775		
	650	750	850	650	750	850	650	750	850
50	-22.04	44.93	111.90	10.46	82.43	154.40	42.96	119.93	196.90
75	-47.86	19.11	86.08	-15.36	56.61	128.58	17.14	94.11	171.08
100	-73.67	-6.70	60.27	-41.17	30.80	102.77	-8.67	68.30	145.27
125	-99.48	-32.51	34.46	-66.98	4.99	76.96	-34.48	42.49	119.46
150	-125.29	-58.32	8.65	-92.79	-20.82	51.15	-60.29	16.68	93.65

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
Tractors												
230 HP	223000	11.61	25890	400	64.73	50	200	0.200	12.95	6000	3000	3.00
190 HP	186000	11.61	21594.6	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
Hi-clearance sprayer												
	195000	14.17	27632	250	110.53	70	175	0.175	19.34	5300	3710	3.71
Picker												
	465000	13.81	64217	165	389.19	100	165	0.165	64.22	12800	12800	12.80
Totals			148389				113710		113.71	31000	23395	23.40

Fuel Cost Per Gallon	\$1.90	Total Farm													
Job or Implement- Size	Acres/Yr*	HP Used	Acres/Hr	Fixed Costs Per Year			Fixed Costs This Crop		Repairs and Maintenance			Fuel and Lube			
				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	0.48	
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	2.11	
Spray 60 ft POST 1	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
Spray 60 ft POST 2	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
Side dress	1300	190	12.5	17000	12.25	2083	70	1.46	425	298	0.30	0.080	8.36	1.46	
Spray- Layby DIRECTED 8 row	1300	190	12.5	12500	12.25	1531	70	0.00	315	221	0.22	0.080	8.36	1.46	
Spray 60 ft- pgr	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
Spray 60 ft- insecticide	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
Spray 60 ft- insecticide+pgr	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
Spray 60 ft- defoliate	9800	200	40.0			0		0.00		0	0.00	0.025	8.80	0.48	
						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	6.20			0		0.00		0	0.00	0.161	15.40	5.43	
Boil Buggy	1000	190	6.20	30000	12.25	3675	100	3.68	800	800	0.80	0.161	8.36	2.95	
Module Builder	1000	110	6.20	34000	12.25	4165	100	4.17	950	950	0.95	0.161	4.84	1.71	
Stalk puller/chopper- 6 row	1000	230	10.5	36000	12.25	4410	100	4.41	1000	1000	1.00	0.095	10.12	2.11	
						0		0.00		0	0.00		0.00		
Totals							17842	16.77	4990	4018	4.02	1.009		20.58	

* 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 and Amanda Smith, Department of Agricultural and Applied Economics, University of Georgia.

February 2017

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