

COTTON- Strip-Till, Non-Irrigated

2015 ESTIMATED PER ACRE COSTS AND RETURNS, SOUTH AND EAST GEORGIA

Seed Technology:	B2RF or WRF or GLB2 or LLB2	Row Spacing:	36
Tillage:	Strip-Till	Seed Per Foot:	2.75
Production:	Non-Irrigated	Seed Per Acre:	39,930

		Lbs/Acre	Avg Price	Income/Ac	Cents/Lb
EXPECTED INCOME		750	0.700	\$525.00	70.00
VARIABLE COST	Unit	No. Units	Price/Unit	Cost/Acre	Cents/Lb
Land Rent	Acre	1	0.00	0.00	0.00
Crop Insurance (Including STAX)	Acre	1	22.00	22.00	2.93
Seed (Including Technology Fees)	1,000 seed	39.9	2.39	95.31	12.71
Seed Treatments	1,000 seed	39.9	0.35	13.98	1.86
Lime- Custom Spread	Ton	0.33	44.00	14.52	1.94
Fertilizers					
Nitrogen	Lbs	60	0.61	36.60	4.88
Phosphate (P2O5)	Lbs	50	0.46	23.00	3.07
Potash (K2O)	Lbs	50	0.41	20.50	2.73
Chicken Litter- Custom Spread	Tons	0	40.00	0.00	0.00
Boron, Sulfur, and Others	Acre	1	5.00	5.00	0.67
Weed Control					
Burndown	Acre	1	13.74	13.74	1.83
At Planting or PRE	Acre	1	10.88	10.88	1.45
POST	Acre	1	41.30	41.30	5.51
Layby	Acre	1	10.88	10.88	1.45
Hand Weeding	Acre	1	12.00	12.00	1.60
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	4.28	8.56	1.14
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	0.086	2.24	0.30
Defoliant and Boll Opener	Acre	1	10.86	10.86	1.45
Machinery and Equipment					
Fuel and Lube	Gal	10.61	2.70	28.64	3.82
Repairs and Maintenance	Acre	1	28.24	28.24	3.77
Custom Spray Applications	Applications	0	0.00	0.00	0.00
Custom Picking	Acre	1	0.00	0.00	0.00
Labor	LT/MT 1.50	Hrs	1.55	12.00	18.55
Interest on Operating	Months 6	\$426.79	0.50	6.50%	13.87
Ginning and Warehousing					
Ginning	Lbs	750	0.080	60.00	8.00
Other (Hauling, Etc.)	Bale	1.50	0.00	0.00	0.00
Storage and Warehousing	Bale	1.50	10.50	15.75	2.10
Promotions, Boards, Classing	Bale	1.50	6.25	9.38	1.25
Cottonseed Credit	Gin T/O 40%	Ton	0.47	175.00	-82.03
BWEP	Bale	1.50	0.75	1.13	0.15
TOTAL VARIABLE COSTS				\$444.88	59.32
NET RETURN ABOVE VARIABLE COST				\$80.12	10.68
Tractors and Sprayer	Acre	1	48.49	48.49	6.47
Equipment/Implements	Acre	1	6.38	6.38	0.85
Picker/BB/MB	Acre	1	77.42	77.42	10.32
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$444.88	5.0%	22.24	2.97
Management	% of Var Costs	\$444.88	5.0%	22.24	2.97
TOTAL FIXED COSTS				\$176.79	23.57
TOTAL COST				\$621.67	82.89
NET RETURN				-\$96.67	-12.89



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

Rent/Ac	0.650			0.700			0.750		
	650	750	850	650	750	850	650	750	850
50	-73.45	-9.01	55.43	-40.95	28.49	97.93	-8.45	65.99	140.43
75	-99.26	-34.82	29.62	-66.76	2.68	72.12	-34.26	40.18	114.62
100	-125.07	-60.63	3.80	-92.57	-23.13	46.30	-60.07	14.37	88.80
125	-150.88	-86.45	-22.01	-118.38	-48.95	20.49	-85.88	-11.45	62.99
150	-176.70	-112.26	-47.82	-144.20	-74.76	-5.32	-111.70	-37.26	37.18

Acres of This Crop	900	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
Tractors												
225 HP	225000	11.61	26123	500	52.25	55	275	0.306	15.96	5700	3135	3.48
185 HP	160000	11.61	18576	600	30.96	60	360	0.400	12.38	4000	2400	2.67
100 HP	71000	11.61	8243	500	16.49	30	150	0.167	2.75	1800	540	0.60
Hi-clearance sprayer	170000	14.17	24089	255	94.47	65	166	0.184	17.40	4650	3023	3.36
Picker	450000	13.81	62145	150	414.30	100	150	0.167	69.05	12500	12500	13.89
Totals			139176				105789		117.54	28650	21598	24.00

Fuel Cost Per Gallon	\$2.70	Total Farm		Fixed Costs Per Year			Fixed Costs This Crop		Repairs and Maintenance			Fuel and Lube				
		Job or Implement- Size	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	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Strip/rip/plant- 6-row with PRE	1800	225	10.5	48000	12.25	5880	50	3.27	1350	675	0.75	0.095	9.90	2.93
		Spray 60 ft POST 1	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Spray 60 ft POST 2	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Side dress	1300	185	12.0	17000	12.25	2083	70	1.62	425	298	0.33	0.083	8.14	2.11
		Spray- Layby DIRECTED 8 row	1300	185	12.0	12500	12.25	1531	70	0.00	315	221	0.25	0.083	8.14	2.11
		Spray 60 ft- pgr	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Spray 60 ft- insecticide	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Spray 60 ft- insecticide+pgr	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Spray 60 ft- defoliate	9800	175	38.5			0	0.00		0	0.00	0.026	7.70	0.62	
		Picker- 6 row	900	350	6.10			0	0.00		0	0.00	0.164	15.40	7.84	
		Boll Buggy	900	185	6.10	29000	12.25	3553	100	3.95	750	750	0.83	0.164	8.14	4.14
		Module Builder	900	100	6.10	32500	12.25	3981	100	4.42	900	900	1.00	0.164	4.40	2.24
		Stalk puller/chopper- 6 row	900	225	10.5	35000	12.25	4288	100	4.76	975	975	1.08	0.095	9.90	2.93
								0	0.00		0	0.00		0.00		
Totals								17291	18.02	4715	3818	4.24	1.031		28.64	

* 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.

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