

COTTON- Strip-Till, Irrigated
2016 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:	Irrigated	Seed Per Acre:	39,930

	Lbs/Acre	Avg Price**	Income/Ac	Cents/Lb
EXPECTED INCOME	1200	0.700	\$840.00	70.00

	Unit	No. Units	Price/Unit	Cost/Acre	Cents/Lb		
VARIABLE COST							
Land Rent	Acre	1	0.00	0.00	0.00		
Crop Insurance (Including STAX)	Acre	1	18.00	18.00	1.50		
Seed (Including Technology Fees)	1,000 seed	39.9	2.39	95.31	7.94		
Seed Treatments	1,000 seed	39.9	0.39	15.57	1.30		
Lime- Custom Spread	Ton	0.33	45.00	14.85	1.24		
Fertilizers							
Nitrogen	Lbs	90	0.50	45.00	3.75		
Phosphate (P2O5)	Lbs	70	0.42	29.40	2.45		
Potash (K2O)	Lbs	70	0.34	23.80	1.98		
Chicken Litter- Custom Spread	Tons	0	44.00	0.00	0.00		
Boron, Sulfur, and Others	Acre	1	5.50	5.50	0.46		
Weed Control							
Burndown	Acre	1	14.01	14.01	1.17		
At Planting or PRE	Acre	1	12.72	12.72	1.06		
POST	Acre	1	35.40	35.40	2.95		
Layby	Acre	1	15.49	15.49	1.29		
Hand Weeding	Acre	1	15.00	15.00	1.25		
Insect Control							
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	3.85	7.70	0.64		
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	0.078	2.81	0.23		
Defoliant and Boll Opener	Acre	1	11.63	11.63	0.97		
Irrigation	Applications	7	8.00	56.00	4.67		
Machinery and Equipment							
Fuel and Lube	Gal	10.99	1.80	19.79	1.65		
Repairs and Maintenance	Acre	1	28.51	28.51	2.38		
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	1.76	12.50	21.99	1.83
Interest on Operating	Months	6	\$498.49	0.50	6.50%	16.20	1.35
Ginning and Warehousing							
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	25.45	2.12		
Promotions, Boards, Classing	Bale	2.42	5.88	14.26	1.19		
Cottonseed Credit	Gin T/O	40%	Ton	0.75	195.00	-146.25	-12.19
BWEP	Bale	2.42	0.75	1.82	0.15		

TOTAL VARIABLE COSTS	\$505.97	42.16
NET RETURN ABOVE VARIABLE COST	\$334.03	27.84

Tractors and Sprayer	Acre	1	47.38	47.38	3.95
Equipment/Implements	Acre	1	6.52	6.52	0.54
Irrigation	Acre	1	125.00	125.00	10.42
Picker/BB/MB	Acre	1	80.06	80.06	6.67
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$505.97	5.0%	25.30	2.11
Management	% of Var Costs	\$505.97	5.0%	25.30	2.11

TOTAL FIXED COSTS	\$309.56	25.80
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TOTAL COST	\$815.53	67.96
NET RETURN	\$24.47	2.04

** Expected average price includes LDP/MLG, if applicable, and adjustments for fiber quality.



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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		
	1100	1200	1300	1100	1200	1300	1100	1200	1300
150	53.43	119.16	184.88	108.43	179.16	249.88	163.43	239.16	314.88
175	27.62	93.34	159.07	82.62	153.34	224.07	137.62	213.34	289.07
200	1.80	67.53	133.26	56.80	127.53	198.26	111.80	187.53	263.26
225	-24.01	41.72	107.44	30.99	101.72	172.44	85.99	161.72	237.44
250	-49.82	15.91	81.63	5.18	75.91	146.63	60.18	135.91	211.63

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	Per Acre	
Tractors												
225 HP	225000	11.61	26123	400	65.31	45	180	0.200	13.06	5700	2565	2.85
185 HP	175000	11.61	20317.5	500	40.64	60	300	0.333	13.55	4400	2640	2.93
100 HP	74000	11.61	8591	500	17.18	30	150	0.167	2.86	1900	570	0.63
Hi-clearance sprayer												
	175000	14.17	24798	255	97.25	65	166	0.184	17.91	4800	3120	3.47
Picker												
	465000	13.81	64217	155	414.30	100	155	0.172	71.35	12750	12750	14.17
Totals			144045				106858		118.73	29550	21645	24.05

Fuel Cost Per Gallon	\$1.80													
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	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Strip/rip/plant- 6-row with PRE	1800	225	10.5	50000	12.25	6125	50	3.40	1500	750	0.83	0.095	9.90	1.95
Spray 60 ft POST 1	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Spray 60 ft POST 2	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Side dress	1300	185	12.0	17000	12.25	2083	70	1.62	425	298	0.33	0.083	8.14	1.40
Spray- Layby DIRECTED 8 row	1300	185	12.0	12500	12.25	1531	70	0.00	315	221	0.25	0.083	8.14	1.40
Spray 60 ft- pgr	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Spray 60 ft- insecticide+pgr	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Spray 60 ft- insecticide+pgr	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Spray 60 ft- defoliate	9800	175	38.5			0		0.00		0	0.00	0.026	7.70	0.41
Picker- 6 row	900	350	5.80			0		0.00		0	0.00	0.172	15.40	5.50
Boll Buggy	900	185	5.80	30000	12.25	3675	100	4.08	800	800	0.89	0.172	8.14	2.91
Module Builder	900	100	5.80	34000	12.25	4165	100	4.63	950	950	1.06	0.172	4.40	1.57
Stalk puller/chopper- 6 row	900	225	9.5	36000	12.25	4410	100	4.90	1000	1000	1.11	0.105	9.90	2.16
						0		0.00		0	0.00		0.00	
Totals						17842		18.63	4990	4018	4.46	1.066		19.79

* 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 2016

ACKNOWLEDGEMENT
 Special thanks to County Extension Agents, UGA Cotton Team, and industry representatives for providing data, input, and review/suggestions.

