

COTTON- Conventional Tillage, Non-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:	Conventional	Seed Per Foot:	2.50
Production:	Non-Irrigated	Seed Per Acre:	36,300

EXPECTED INCOME	Lbs/Acre	Avg Price**	Income/Ac	Cents/Lb
	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	26.00	26.00	3.47
Seed (Including Technology Fees)	1,000 seed	36.3	2.39	86.76	11.57
Seed Treatments	1,000 seed	36.3	0.39	14.16	1.89
Lime- Custom Spread	Ton	0.33	45.00	14.85	1.98
Fertilizers					
Nitrogen	Lbs	60	0.50	30.00	4.00
Phosphate (P2O5)	Lbs	50	0.42	21.00	2.80
Potash (K2O)	Lbs	50	0.34	17.00	2.27
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					
Pre-Plant Broadcast or PPI	Acre	1	6.76	6.76	0.90
At Planting or PRE	Acre	1	9.13	9.13	1.22
POST	Acre	1	32.54	32.54	4.34
Layby	Acre	1	15.49	15.49	2.07
Hand Weeding	Acre	1	15.00	15.00	2.00
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	3.85	7.70	1.03
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	0.078	2.03	0.27
Defoliant and Boll Opener	Acre	1	8.63	8.63	1.15
Machinery and Equipment					
Fuel and Lube	Gal	12.78	1.80	23.00	3.07
Repairs and Maintenance	Acre	1	31.00	31.00	4.13
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	1.86	23.20	3.09
Interest on Operating	Months	6	\$399.74	0.50	6.50%
\$399.74		0.50	6.50%	12.99	1.73
Ginning and Warehousing					
Ginning	Lbs	750	0.080	60.00	8.00
Other (Hauling, Etc.)	Bale	1.52	0.00	0.00	0.00
Storage and Warehousing	Bale	1.52	10.50	15.91	2.12
Promotions, Boards, Classing	Bale	1.52	5.88	8.91	1.19
Cottonseed Credit	Gin T/O	40%	0.47	195.00	-91.41
-91.41		0.47	195.00	-91.41	-12.19
BWEF	Bale	1.52	0.75	1.14	0.15

TOTAL VARIABLE COSTS	\$407.29	54.30
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NET RETURN ABOVE VARIABLE COST	\$117.71	15.70
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Tractors and Sprayer	Acre	1	51.41	51.41	6.85
Equipment/Implements	Acre	1	18.23	18.23	2.43
Picker/BB/MB	Acre	1	80.06	80.06	10.68
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$407.29	5.0%	20.36	2.72
Management	% of Var Costs	\$407.29	5.0%	20.36	2.72
TOTAL FIXED COSTS				\$190.43	25.39

TOTAL COST	\$597.71	79.70
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NET RETURN	-\$72.71	-9.70
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** 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		
	650	750	850	650	750	850	650	750	850
50	-37.14	28.59	94.31	-4.64	66.09	136.81	27.86	103.59	179.31
75	-62.95	2.78	68.50	-30.45	40.28	111.00	2.05	77.78	153.50
100	-88.76	-23.04	42.69	-56.26	14.46	85.19	-23.76	51.96	127.69
125	-114.58	-48.85	16.88	-82.08	-11.35	59.38	-49.58	26.15	101.88
150	-140.39	-74.66	-8.94	-107.89	-37.16	33.56	-75.39	0.34	76.06

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	175000	11.61	20318	600	33.86	65	390	0.433	14.67	4400	2860	3.18
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	150	428.11	100	150	0.167	71.35	12750	12750	14.17
Totals			144045				110486		122.76	29550	22435	24.93

Fuel Cost Per Gallon	\$1.80	Total Farm 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
Disk- 30ft	3600	225	17.0	50000	12.25	6125	50	3.40	1250	625	0.69	0.059	9.90	1.21	
Disk- 30ft	3600	225	17.0	50000	12.25	6125	50	3.40	1250	625	0.69	0.059	9.90	1.21	
Rip and bed- 8-row	1800	225	11.5	32000	12.25	3920	50	2.18	800	400	0.44	0.087	9.90	1.78	
Spray 60 ft- preplant	9800	175	38.5			0		0.00				0.026	7.70	0.41	
Plant- 8 row w/PRE	1800	185	11.5	40000	12.25	4900	50	2.72	1100	550	0.61	0.087	8.14	1.47	
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			0.00	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	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	
						0		0.00		0	0.00		0.00		
Picker- 6 row	900	350	6.10			0		0.00		0	0.00	0.164	15.40	5.23	
Boll Buggy	900	185	6.10	30000	12.25	3675	100	4.08	800	800	0.89	0.164	8.14	2.76	
Module Builder	900	100	6.10	34000	12.25	4165	100	4.63	950	950	1.06	0.164	4.40	1.49	
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								25315	26.94	7890	5468	6.08	1.237	23.00	

* 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.

