

**COTTON- Strip-Till, Irrigated
2010 ESTIMATED PER ACRE COSTS AND RETURNS, SOUTH AND EAST GEORGIA**

Seed Technology:	<input type="checkbox"/> B2 or W	<input type="checkbox"/> R or RF or LL	Row Spacing:	<input type="text" value="36"/>
Tillage:	<input checked="" type="checkbox"/> Strip-Till		Seed Per Foot:	<input type="text" value="2.75"/>
Production:	<input checked="" type="checkbox"/> Irrigated		Seed Per Bag*:	<input type="text" value="233333"/>

*Average of all Varieties and Technologies

		Lbs/Acre	Price/Lb	Income/Ac	Cents/Lb
INCOME (Price including LDP or Loan Gain)		<input type="text" value="1100"/>	<input type="text" value="0.67"/>	\$737.00	67.00
VARIABLE COST*	Unit	No. Units	Price/Unit	Cost/Acre	Cents/Lb
Land Rent	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Crop Insurance	Acre	<input type="text" value="1"/>	<input type="text" value="11.00"/>	11.00	1.00
BWEP	Acre	<input type="text" value="1"/>	<input type="text" value="1.00"/>	1.00	0.09
Cover Crop	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Seed (Including Tech Fees and Treatments)					
Seeds Per Acre		<input type="text" value="39.930"/>			
Baq	Baq	<input type="text" value="0.171"/>	<input type="text" value="500.00"/>	85.56	7.78
Lime- Custom Spread	Ton	<input type="text" value="0.33"/>	<input type="text" value="32.50"/>	10.73	0.98
Fertilizers					
Nitrogen	Lbs	<input type="text" value="90"/>	<input type="text" value="0.45"/>	40.50	3.68
Phosphate (P2O5)	Lbs	<input type="text" value="70"/>	<input type="text" value="0.25"/>	17.50	1.59
Potash (K2O)	Lbs	<input type="text" value="70"/>	<input type="text" value="0.50"/>	35.00	3.18
Chicken Litter- Custom Spread	Tons	<input type="text" value="0"/>	<input type="text" value="35.00"/>	0.00	0.00
Boron	Lbs	<input type="text" value="0.5"/>	<input type="text" value="5.40"/>	2.70	0.25
Others	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Weed Control**					
Pre-Plant Broadcast or PPI	Acre	<input type="text" value="1"/>	<input type="text" value="9.40"/>	9.40	0.85
At Planting or Pre-Emergence	Acre	<input type="text" value="1"/>	<input type="text" value="21.22"/>	21.22	1.93
Post-Emergence OTT	Acre	<input type="text" value="1"/>	<input type="text" value="14.45"/>	14.45	1.31
Post-Emergence Directed or Hood	Acre	<input type="text" value="1"/>	<input type="text" value="12.59"/>	12.59	1.14
Hand Weeding	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Insect Control					
In-Furrow	Lbs	<input type="text" value="3.5"/>	<input type="text" value="3.00"/>	10.50	0.95
Spray- Worms	Appl	<input type="text" value="0"/>	<input type="text" value="0.00"/>	0.00	0.00
Spray- Stink Bugs, Other Pests	Appl	<input type="text" value="2"/>	<input type="text" value="4.45"/>	8.90	0.81
Scouting	Acre	<input type="text" value="1"/>	<input type="text" value="10.00"/>	10.00	0.91
Nematicide	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
PGR	Ounces	<input type="text" value="16"/>	<input type="text" value="0.110"/>	1.76	0.16
Boll Opener and Defoliant	Acre	<input type="text" value="1"/>	<input type="text" value="14.44"/>	14.44	1.31
Custom Applications					
Insecticides	Appl	<input type="text" value="0"/>	<input type="text" value="0.00"/>	0.00	0.00
Herbicides	Appl	<input type="text" value="0"/>	<input type="text" value="0.00"/>	0.00	0.00
PGR	Appl	<input type="text" value="0"/>	<input type="text" value="0.00"/>	0.00	0.00
Defoliation	Appl	<input type="text" value="0"/>	<input type="text" value="0.00"/>	0.00	0.00
Machinery and Equipment					
Fuel and Lube	Gal	<input type="text" value="11.12"/>	<input type="text" value="2.50"/>	27.80	2.53
Repairs and Maintenance	Acre	<input type="text" value="1"/>	<input type="text" value="19.61"/>	19.61	1.78
Labor	LT/MT	<input type="text" value="1.65"/>	<input type="text" value="11.00"/>	21.78	1.98
Irrigation	Appl	<input type="text" value="7"/>	<input type="text" value="9.00"/>	63.00	5.73
Custom Picking	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Interest on Operating	Months	<input type="text" value="6"/>	<input type="text" value="7.25%"/>	15.93	1.45
Ginning and Warehousing					
Ginning	Lbs	<input type="text" value="1100"/>	<input type="text" value="0.080"/>	88.00	8.00
Storage and Warehousing	Bale	<input type="text" value="2.2"/>	<input type="text" value="10.50"/>	23.10	2.10
Promotions, Boards, Classing	Bale	<input type="text" value="2.2"/>	<input type="text" value="5.77"/>	12.69	1.15
Cottonseed	% Gin T/O	<input type="text" value="39.0"/>	<input type="text" value="120.00"/>	-86.31	-7.85

TOTAL VARIABLE COSTS				\$492.87	44.81
NET RETURN ABOVE VARIABLE COST				\$244.13	22.19

Tractors and Sprayer	Acre	<input type="text" value="1"/>	<input type="text" value="31.56"/>	31.56	2.87
Equipment/Implements	Acre	<input type="text" value="1"/>	<input type="text" value="8.93"/>	8.93	0.81
Picker/BB/MB	Acre	<input type="text" value="1"/>	<input type="text" value="53.09"/>	53.09	4.83
Irrigation	Acre	<input type="text" value="1"/>	<input type="text" value="100.00"/>	100.00	9.09
Owned Land Charge	Acre	<input type="text" value="1"/>	<input type="text" value="0.00"/>	0.00	0.00
Misc Overhead	% of Var Costs	<input type="text" value="\$492.87"/>	<input type="text" value="5.0%"/>	24.64	2.24
Management	% of Var Costs	<input type="text" value="\$492.87"/>	<input type="text" value="5.0%"/>	24.64	2.24

TOTAL FIXED COSTS				\$242.86	22.08
TOTAL COST				\$735.73	66.88
NET RETURN				\$1.27	0.12

*Fertilizer and fuel prices as of November-December 2009. All costs subject to change.

**Herbicide programs highly variable. Cost assumes managing Palmer Amaranth glyphosate resistance. Hand weeding may be needed.

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

	0.62			0.67			0.72		
	1000	1100	1200	1000	1100	1200	1000	1100	1200
100	42.54	101.13	159.73	92.54	156.13	219.73	142.54	211.13	279.73
125	17.54	76.13	134.73	67.54	131.13	194.73	117.54	186.13	254.73
150	-7.46	51.13	109.73	42.54	106.13	169.73	92.54	161.13	229.73
175	-32.46	26.13	84.73	17.54	81.13	144.73	67.54	136.13	204.73
200	-57.46	1.13	59.73	-7.46	56.13	119.73	42.54	111.13	179.73

* Net return excludes DCP on Payment Acres. Price should include POP/LDP if applicable. If applicable, cash price plus POP/LDP or Loan plus Gain or merchant Equity should be a minimum of 55 to 60 cents per lb. Any price used less than this will underestimate net returns.

Acres of This Crop		850										
New Price	Fixed Costs Per Year			Fixed Costs Share For This Crop				Repairs and Maintenance				
	% FC	Total FC	Hrs Use	FC/Hr	% Use	Hrs Use	Hrs/Ac	FC/Acre	Est RM	This Crop	Per Acre	
Tractors												
200 HP	140000	12.0	16800	400	42.00	30	120	0.14	5.93	3500	1050	1.24
165 HP	119000	12.0	14280	500	28.56	70	350	0.41	11.76	3000	2100	2.47
100 HP	67000	12.0	8040	500	16.08	30	150	0.18	2.84	1700	510	0.60
Hi-clearance sprayer	100000	14.0	14000	225	62.22	67	150.75	0.18	11.04	2750	1843	2.17
Picker	300000	14.0	42000	250	168.00	100	250	0.29	49.41	9000	9000	10.59
Totals			95120						80.97	19950	14503	17.06

Fuel Cost Per Gallon		2.50													
Job or Implement- Size	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	
Spray 60 ft- preplant broadcast	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
Rip/Strip/Plant- 6-row w/PRE	1700	200	8.5	45000	12.5	5625	50	3.31	1200	600	0.71	0.118	8.8	2.98	
Spray 60 ft OTT- POST	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
Spray 60 ft- pgr	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
Spray 60 ft- insecticide	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
Spray- POST Directed 8-row	1000	165	11.0	12000	12.5	1500	85	1.50	300	255	0.30	0.091	7.3	1.90	
Nitrogen side dress	1200	165	11.5	18000	12.5	2250	70	1.85	450	315	0.37	0.087	7.3	1.82	
Spray 60 ft- insecticide/pgr	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
Spray 60 ft- defoliate	7900	115	35.0				0		0.00		0	0.00	0.029	5.1	0.42
							0		0.00		0	0.00		0.0	
							0		0.00		0	0.00		0.0	
							0		0.00		0	0.00		0.0	
							0		0.00		0	0.00		0.0	
							0		0.00		0	0.00		0.0	
Picker- 4 row	850	300	3.50				0		0.00		0	0.00	0.286	13.2	10.84
Boll Buggy	850	165	5.25	25000	12.5	3125	100	3.68	650	650	0.76	0.190	7.3	3.98	
Module Builder	850	100	5.25				0		0.00		0	0.00	0.190	4.4	2.41
Mow/shred stalks- 20 ft	1200	165	15.0	22000	12.5	2750	70	2.26	500	350	0.41	0.067	7.3	1.39	
							0		0.00		0	0.00		0.0	
Totals								12.60	3100	2170	2.55	1.20			27.80

* All acres for the implement including multiple trips over the field. Disking 800 acres 2 times would be 1,600 acres total. Spraying 900 acres 5 times would be 4,500 acres.

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

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