Table 14. Cotton insect loss estimates for Georgia during 2023.

	Acres	% Acres		% Acres	# of apps	Cost of 1	% loss /acre	# of apps/		overall %	Bales lost /		Loss +	% Total
Pest	Infested	Infested	Acres Treated	Treated	/acres treated	application	infested	total acres	cost/acre	reduction	pest	Loss + cost	cost/acre	Loss+Cost
Bollworm/Budworm	550,000	50%	19,800	1.8%	1.0	\$11.00	0.01%	0.02	\$0.22	0.01%	203	\$198,952	\$0.18	0.3%
Beet Armyworm	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Fall Armyworm	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Loopers	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cutworms	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton Leaf Perforator	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Saltmarsh Caterpillar	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	825,000	75%	429,000	39.0%	1.4	\$12.00	1.00%	0.55	\$6.60	0.75%	30,422	\$17,127,048	\$15.57	23.4%
Cotton Fleahopper	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Stink Bugs (other than	990,000	90%	880,000	80.0%	1.2	\$9.00	1.30%	0.96	\$8.64	1.17%	47,458	\$26,777,472	\$24.34	36.6%
brown stink bug)														
Brown Stink Bug	880,000	80%	770,000	70.0%	1.0	\$11.00	1.00%	0.70	\$7.70	0.80%	32,450	\$19,236,800	\$17.49	26.3%
Clouded Plant Bug	330,000	30%	22,000	2.0%	1.0	\$9.00	0.50%	0.02	\$0.18	0.15%	6,084	\$2,395,656	\$2.18	3.3%
Leaf Footed Bugs	11,000	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	550,000	50%	110,000	10.0%	1.0	\$9.00	0.20%	0.10	\$0.90	0.10%	4,056	\$2,052,504	\$1.87	2.8%
Thrips	1,089,000	99%	220,000	20.0%	1.0	\$8.00	0.10%	0.20	\$1.60	0.10%	4,016	\$3,284,544	\$2.99	4.5%
Aphids	825,000	75%	88,000	8.0%	1.0	\$9.00	0.00%	0.08	\$0.72	0.00%	0	\$594,000	\$0.54	0.8%
Grasshoppers	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged	11,000	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Whitefly														
Silverleaf Whitefly	440,000	40%	132,000	12.0%	1.9	\$15.00	0.01%	0.23	\$3.45	0.00%	162	\$1,580,208	\$1.44	2.2%
Boll Weevil	0		0					0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL							·	2.86	\$30.01	3.08%	124,851	\$73,247,184	\$66.59	

## SUMMARY DATA

	Da	ita Input	Yield and Management Resul	Economic Results				
State	Georgia			Total Acres	1,100,000	_	Total	Per Acre
Region	Southeast			Total Bales Harvested	2,348,958	Foliar Insecticide Costs	\$33,011,000	\$30.01
Year	2023			Total Bales Lost to Insects	124,851	Seed Treatment Costs	\$6,160,000	\$5.60
Total Acres (Upland)	1,100,000	In-furrow cost/treated acre	\$18.00	Percent Yield Loss	3.1%	In-Furrow Costs	\$5,940,000	\$5.40
Yield / Acre (Upland)	1,025	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	1,058	Scouting Costs	\$6,600,000	\$6.00
Price / lb	\$0.80	Cost/acre Boll Weevil Eradication	\$2.05	Av. # Applications	2.86	Eradication Costs	\$2,255,000	\$2.05
yield potential (lb/acre)	1,770	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	1,706,789	Bt Cotton	\$17,600,000	\$16.00
Acres (Pima)	0	Cost/acre Pink Bollworm Eradication	\$0.00	Total % yield Loss	42.1%	Total Costs	\$71,566,000	\$65.06
Yield / Acre (Pima)	0	% Insect apps by air	20%	Transgenic Cotton (arthropods) (# acres)	1,100,000	Yield Loss to Insects	\$47,942,784	\$43.58
% Acres Scouted	75%	No. apps by air	2	Boll Weevil Eradication (# acres)	1,100,000	Total Losses + Costs	\$119,508,784	\$108.64
Fee / Scouted Acre	\$8.00	Cost/app by air	\$8.00	Pink Bollworm Eradication (# acres)	0			
No. times scouted/week	1.1	% insect apps by ground	85%	# Scouted Acres	825,000			
% acres Transgenic (Bt) Cotton	100%	No. apps by ground	2.5	Seed Treatments (arthropods) (# acres)	770,000			
Cost/treated acre (Bt) Cotton	\$16.00	Cost/app by ground	\$4.50	In-Furrow Applications (# acres)	330,000			
% acres with seed treatment	70%	% Loss to weather	20.0%	Applications by Air (acres)	220,000			
Seed trt. cost/ treated acre	\$8.00	% loss to non-arthropods	5.0%	Applications by Ground (acres)	935,000			
% acres with in-furrow	30%	% loss to other (chemical injury,	14.0%	No. acres with no foliar insecticide	165,000			
		weeds, diseases, etc.)		applications				

Table 14. Cotton insect loss estimates for Georgia during 2023, continued.

Upland Cotton	% Acres	# Acres	Total cost/acre	Bt cost/acre	% acres treated for BW/TBW	# acres treated for BW/TBW	# apps for BW/TBW
Bollgard II	18.0%	198,000	\$85.00	\$15.00	10%	19,800	1.0
Bollgard III	69.0%	759,000	\$90.00	\$15.00	0%	0	0.0
Bollgard III/Thryvon	10.0%	110,000	\$100.00	\$15.00	0%	0	0.0
WideStrike	0.0%	Ó	\$82.00	\$15.00	0%	0	0.0
WideStrike 3	3.0%	33,000	\$83.00	\$15.00	0%	0	0.0
ΓwinLink	0.0%	0	\$85.00	\$15.00	0%	0	0.0
TwinLink Plus	0.0%	0	\$90.00	\$15.00	0%	0	0.0
Γotal Bt	100.0%	1,100,000	\$89.89	\$16.00	1.8%	19,800	0.0
Herbicide Traits Only	0.0%	0	\$0.00		0%	0	0.0
Conventional	0.0%	0	\$0.00		0%	0	0.0
Organic	0.0%	0	\$0.00		0%	0	0.0
otal Upland Cotton	100.0%	1,100,000	\$89.89	\$16.00	1.8%	19,800	0.0
Non Upland Cotton							
Pima	0.0%	0	\$0.00		0%	0	0.0
Other	0.0%	0	\$0.00		0%	0	0.0
Organic	0.0%	0	\$0.00		0%	0	0.0
Total (all Cotton)		1,100,000	\$89.89		1.8%	19,800	0.0
	Thryvon	% acres treated	# acres treated	# apps	% acres treated	# acres treated	# apps
Upland Cotton	Bt cost/acre	for Thrips	for Thrips	for Thrips	for Lygus	for Lygus	for Lygus
Bollgard III/Thryvon	\$10.00	0%	0	0	20%	22.000	1.0