

Table 12. Cotton insect loss estimates for Georgia during 2024.

Pest	Acres Infested	% Acres Infested	Acres Treated	% Acres Treated	# of apps /acres treated	Cost of 1 application	% loss /acre infested	# of apps/ total acres	cost/acre	overall % reduction	Bales lost / pest	Loss + cost	Loss + cost/acre	% Total Loss+Cost
B	654,000	60.0%	2,180	0.2%	1.0	\$11.00	0.01%	0.00	\$0.00	0.01%	251	\$84,336	\$0.08	0.1%
B	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
F	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
L	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
C	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
C	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
S	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	926,500	85.0%	446,900	41.0%	1.9	\$12.00	2.00%	0.78	\$9.36	1.70%	71,225	\$32,603,640	\$29.91	40.3%
Cotton Fleahopper	0	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 brown stink bug)	981,000	90.0%	1,035,500	95.0%	1.2	\$9.00	1.00%	1.14	\$10.26	0.90%	37,707	\$22,734,612	\$20.86	28.1%
Brown Stink Bug	817,500	75.0%	763,000	70.0%	0.5	\$11.00	0.80%	0.35	\$3.85	0.60%	25,138	\$11,593,743	\$10.64	14.3%
Clouded Plant Bug	272,500	25.0%	81,750	7.5%	1.1	\$11.00	0.50%	0.08	\$0.88	0.13%	5,237	\$1,999,432	\$1.83	2.5%
Leaf Footed Bugs	21,800	2.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
S	763,000	70.0%	130,800	12.0%	1.1	\$9.00	0.10%	0.13	\$1.17	0.07%	2,933	\$1,878,198	\$1.72	2.3%
T	1,079,100	99.0%	163,500	15.0%	1.0	\$8.00	0.10%	0.15	\$1.20	0.10%	4,148	\$2,688,648	\$2.47	3.3%
A	926,500	85.0%	130,800	12.0%	1.0	\$9.00	0.40%	0.12	\$1.08	0.34%	14,245	\$5,786,940	\$5.31	7.1%
G	21,800	2.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
B	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
W														
S	545,000	50.0%	109,000	10.0%	1.5	\$15.00	0.05%	0.15	\$2.25	0.03%	1,047	\$1,578,042	\$1.45	1.9%
B	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL					2.90				\$30.05	3.87%	161,931	\$80,947,591	\$74.26	

## SUMMARY DATA

Data Input		Yield and Management Results				Economic Results	
State	Georgia	Total Acres	1,090,000			Total	Per Acre
Region	Southeast	Total Bales Harvested	1,932,479			Foliar Insecticide Costs	\$32,754,500
Year	2024	Total Bales Lost to Insects	161,931			Seed Treatment Costs	\$6,104,000
Total Acres (Upland)	1,090,000	Percent Yield Loss	3.9%			In-Furrow Costs	\$8,175,000
Yield / Acre (Upland)	851	Yield w/o Insects (lb/acre)	885			Scouting Costs	\$7,357,500
Price / lb	\$0.70	Av. # Applications	2.9			Eradication Costs	\$1,395,200
yield potential (lb/acre)	1,845	Total Bales lost (all factors)	2,256,775			Bt Cotton	\$17,549,000
Acres (Pima)	0	Total % yield Loss	53.9%			Total Costs	\$73,335,200
Yield / Acre (Pima)	0	Transgenic Cotton (arthropods) (# acres)	1,090,000			Yield Loss to Insects	\$54,408,816
% Acres Scouted	75%	Boll Weevil Eradication (# acres)	1,090,000			Total Losses + Costs	\$127,744,016
Fee / Scouted Acre	\$9.00	Pink Bollworm Eradication (# acres)	0				
No. times scouted/week	1	# Scouted Acres	817,500				
% acres Transgenic (Bt) Cotton	100%	Seed Treatments (arthropods) (# acres)	763,000				
Cost/treated acre (Bt) Cotton	\$16.10	In-Furrow Applications (# acres)	327,000				
% acres with seed treatment	70%	Applications by Air (acres)	163,500				
Seed trt. cost/ treated acre	\$8.00	Applications by Ground (acres)	926,500				
% acres with in-furrow	30%	No. acres with no foliar insecticide applications	130,800				

Table 12. Cotton insect loss estimates for Georgia during 2024, 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	9.0%	98,100	\$85.00	\$15.00	2%	1,962	1.0
Bollgard III	76.5%	833,850	\$90.00	\$15.00	0%	0	0.0
Bollgard III/Thryvon	11.0%	119,900	\$100.00	\$15.00	0%	0	0.0
WideStrike	0.0%	0	\$82.00	\$15.00	0%	0	0.0
WideStrike 3	3.0%	32,700	\$83.00	\$15.00	0%	0	0.0
TwinLink	0.0%	0	\$85.00	\$15.00	0%	0	0.0
TwinLink Plus	0.5%	5,450	\$90.00	\$15.00	0%	0	0.0
Total Bt	100.0%	1,090,000	\$90.44	\$16.10	0.2%	1,962	
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
Total Upland Cotton	100.0%	1,090,000	\$90.44	\$16.10	0.2%	1,962	
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)		1,090,000	\$90.44		0.2%	1,962	0.0

Upland Cotton	% acres treated for Thrips	# acres treated for Thrips	# apps for Thrips	Thryvon Bt cost/acre	% acres treated for Lygus	# acres treated for Lygus	# apps for Lygus
Bollgard III/Thryvon	0.0%	0	0.0	\$10.00	20.0%	23,980	1.0