

Table 13. Cotton insect loss estimates for Louisiana 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
Bollworm/Budworm	150,000	100.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Beet Armyworm	0	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	\$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	\$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	\$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	\$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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	150,000	100.0%	150,000	100.0%	3.0	\$16.00	5.00%	3.00	\$48.00	5.00%	23,672	\$15,721,920	\$104.81	81.8%
Cotton Fleahopper	7,500	5.0%	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)	7,500	5.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Brown Stink Bug	7,500	5.0%	15,000	10.0%	1.0	\$16.00	0.50%	0.10	\$1.60	0.03%	118	\$54,480	\$0.36	0.3%
Clouded Plant Bug	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	90,000	60.0%	45,000	30.0%	1.0	\$16.00	1.00%	0.30	\$4.80	0.60%	2,841	\$1,454,760	\$9.70	7.6%
Aphids	112,500	75.0%	60,000	40.0%	1.0	\$16.00	1.00%	0.40	\$6.40	0.75%	3,551	\$1,998,360	\$13.32	10.4%
Grasshoppers	0	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 Whitefly	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Silverleaf Whitefly	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Boll Weevil	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
<b>TOTAL</b>					<b>3.80</b>			<b>\$60.80</b>		<b>6.38%</b>	<b>30,182</b>	<b>\$19,229,520</b>	<b>\$128.20</b>	

**SUMMARY DATA**

Data Input		Yield and Management Results			Economic Results		
State	Louisiana	Total Acres	150,000		Total	Per Acre	
Region	Midsouth	Total Bales Harvested	334,375	Foliar Insecticide Costs	\$9,120,000	\$60.80	
Year	2024	Total Bales Lost to Insects	30,182	Seed Treatment Costs	\$2,250,000	\$15.00	
Total Acres (Upland)	150,000	In-furrow cost/treated acre	\$15.00	Percent Yield Loss	6.4%	In-Furrow Costs	\$45,000
Yield / Acre (Upland)	1,070	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	1,143	Scouting Costs	\$1,710,000
Price / lb	\$0.75	Cost/acre Boll Weevil Eradication	\$4.00	Av. # Applications	3.8	Eradication Costs	\$600,000
yield potential (lb/acre)	1,515	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	139,072	Bt Cotton	\$6,525,000
Acres (Pima)	0	Cost/acre Pink Bollworm Eradication	\$0.00	Total % yield Loss	29.4%	Total Costs	\$20,250,000
Yield / Acre (Pima)	0	% Insect apps by air	70%	Transgenic Cotton (arthropods) (# acres)	150,000	Yield Loss to Insects	\$10,865,520
% Acres Scouted	95%	No. apps by air	1	Boll Weevil Eradication (# acres)	150,000	Total Losses + Costs	\$31,115,520
Fee / Scouted Acre	\$12.00	Cost/app by air	\$10.00	Pink Bollworm Eradication (# acres)	0		
No. times scouted/week	1	% insect apps by ground	95%	# Scouted Acres	142,500		
% acres Transgenic (Bt) Cotton	100%	No. apps by ground	4	Seed Treatments (arthropods) (# acres)	150,000		
Cost/treated acre (Bt) Cotton	\$43.50	Cost/app by ground	\$5.00	In-Furrow Applications (# acres)	3,000		
% acres with seed treatment	100%	% Loss to weather	20.0%	Applications by Air (acres)	105,000		
Seed trt. cost/ treated acre	\$15.00	% loss to non-arthropods	1.0%	Applications by Ground (acres)	142,500		
% acres with in-furrow	2%	% loss to other (chemical injury, weeds, diseases, etc.)	2.0%	No. acres with no foliar insecticide applications	0		

Table 13. Cotton insect loss estimates for Louisiana 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	0.0%	0	\$0.00	\$0.00	0%	0	0.0
Bollgard III	45.0%	67,500	\$115.00	\$30.00	0%	0	0.0
Bollgard III/Thryvon	45.0%	67,500	\$145.00	\$30.00	0%	0	0.0
WideStrike	0.0%	0	\$0.00	\$0.00	0%	0	0.0
WideStrike 3	9.0%	13,500	\$115.00	\$30.00	0%	0	0.0
TwinLink	0.0%	0	\$0.00	\$0.00	0%	0	0.0
TwinLink Plus	1.0%	1,500	\$115.00	\$30.00	0%	0	0.0
Total Bt	100.0%	150,000	\$128.50	\$43.50	0.0%	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
Total Upland Cotton	100.0%	150,000	\$128.50	\$43.50	0.0%	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)		150,000	\$128.50		0.0%	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	\$30.00	45.0%	30,375	2.0