

Table 10. Insect loss estimates for Arizona Pima cotton during 2023.

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	545	4%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Beet Armyworm	272	2%	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	163	1%	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	7,082	46%	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	5,546	36%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton Fleahopper	872	6%	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)	272	2%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Brown Stink Bug	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Clouded Plant Bug	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	381	2%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	872	6%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	15,460	100%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Aphids	545	4%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Grasshoppers	3,862	25%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged Whitefly	27	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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
False Chinch Bug	109	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Pale-Striped Flea Beetle	2,179	14%	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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL								0.00	\$0.00	0.00%	0	\$0	\$0.00	

SUMMARY DATA

Data Input		Yield and Management Results			Economic Results			
State	Arizona	Total Acres	15,460		Total	Per Acre		
Region	West	Total Bales Harvested	26,572	Foliar Insecticide Costs	\$0	\$0.00		
Year	2023	Total Bales Lost to Insects	0	Seed Treatment Costs	\$247,861	\$16.03		
Total Acres (Pima)	15,460	In-furrow cost/treated acre	\$0.00	In-Furrow Costs	\$0	\$0.00		
Yield / Acre (Pima)	825	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	825	Scouting Costs	\$173,517	\$11.22
Price / lb	\$1.35	Cost/acre Boll Weevil Eradication	\$6.22	Av. # Applications	0	Eradication Costs	\$192,168	\$12.43
yield potential (lb/acre)	1,185	% acres in Pink Bollworm Eradication	100%	Total Bales lost (all factors)	11,587	Bt Cotton	\$0	\$0.00
Acres (Upland)	-	Cost/acre Pink Bollworm Eradication	\$6.22	Total % yield Loss	30.4%	Total Costs	\$613,546	\$39.69
Yield / Acre (Upland)	-	% Insect apps by air	0%	Transgenic Cotton (arthropods) (# acres)	-	Yield Loss to Insects	\$0	\$0.00
% Acres Scouted	94%	No. apps by air	0.0	Boll Weevil Eradication (# acres)	15,460	Total Losses + Costs	\$613,546	\$39.69
Fee / Scouted Acre	\$12.00	Cost/app by air	\$0.00	Pink Bollworm Eradication (# acres)	15,460			
No. times scouted/week	0.8	% insect apps by ground	0%	# Scouted Acres	14,460			
% acres Transgenic (Bt) Cotton	0%	No. apps by ground	0	Seed Treatments (arthropods) (# acres)	9,914			
Cost/treated acre (Bt) Cotton	\$0.00	Cost/app by ground	\$0.00	In-Furrow Applications (# acres)	0			
% acres with seed treatment	64%	% Loss to weather	24.9%	Applications by Air (acres)	0			
Seed trt. cost/ treated acre	\$25.00	% loss to non-arthropods	0.0%	Applications by Ground (acres)	0			
% acres with in-furrow	0%	% loss to other (chemical injury, weeds, diseases, etc.)	5.5%	No. acres with no foliar insecticide applications	-			