

Table 10. Cotton insect loss estimates for California pima cotton 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	1,462	1.0%	0	0.0%	0.0	\$0.00	0.02%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Beet Armyworm	2,924	2.0%	0	0.0%	1.0	\$19.00	0.20%	0.00	\$0.00	0.00%	22	\$19,008	\$0.13	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	4,387	3.0%	0	0.0%	1.0	\$19.00	0.10%	0.00	\$0.00	0.00%	17	\$14,688	\$0.10	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	116,975	80.0%	102,353	70.0%	3.0	\$30.00	10.00%	2.10	\$63.00	8.00%	44,889	\$46,153,534	\$315.65	93.9%
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)	5,118	3.5%	1,462	1.0%	1.0	\$18.00	1.00%	0.01	\$0.18	0.04%	196	\$170,265	\$1.16	0.3%
Brown Stink 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%
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	73,110	50.0%	36,555	25.0%	1.0	\$22.00	0.02%	0.25	\$5.50	0.01%	56	\$450,486	\$3.08	0.9%
Thrips	4,387	3.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Aphids	36,555	25.0%	29,244	20.0%	1.0	\$25.00	0.05%	0.20	\$5.00	0.01%	73	\$245,846	\$1.68	0.5%
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	73,110	50.0%	51,177	35.0%	1.5	\$36.00	0.30%	0.53	\$19.08	0.15%	842	\$2,122,417	\$14.52	4.3%
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>					3.09				\$92.76	8.22%	46,095	\$49,176,244	\$336.32	

**SUMMARY DATA**

Data Input				Yield and Management Results				Economic Results		
State	California			Total Acres	146,219			Total	Per Acre	
Region	West			Total Bales Harvested	374,686	Foliar Insecticide Costs		\$13,563,274	\$92.76	
Year	2024			Total Bales Lost to Insects	46,095	Seed Treatment Costs		\$1,184,374	\$8.10	
Total Acres (Pima)	146,219	In-furrow cost/treated acre	\$18.00	Percent Yield Loss	8.2%	In-Furrow Costs		\$78,958	\$0.54	
Yield / Acre (Pima)	1,230	% acres in Boll Weevil Eradication	0%	Yield w/o Insects (lb/acre)	1,340	Scouting Costs		\$2,083,621	\$14.25	
Price / lb	\$1.80	Cost/acre Boll Weevil Eradication	\$0.00	Av. # Applications	3.09	Eradication Costs		\$292,438	\$2.00	
yield potential (lb/acre)	1,842	% acres in Pink Bollworm Eradication	100%	Total Bales lost (all factors)	186,374	Bt Cotton		\$0	\$0.00	
Acres (Upland)	-	Cost/acre Pink Bollworm Eradication	\$2.00	Total % yield Loss	33.2%	Total Costs		\$17,202,665	\$117.65	
Yield / Acre (Upland)	-	% Insect apps by air	75%	Transgenic Cotton (arthropods) (# acres)	0	Yield Loss to Insects		\$39,826,080	\$272.37	
% Acres Scouted	95%	No. apps by air	2	Boll Weevil Eradication (# acres)	0	Total Losses + Costs		\$57,028,745	\$390.02	
Fee / Scouted Acre	\$15.00	Cost/app by air	\$19.00	Pink Bollworm Eradication (# acres)	146,219					
No. times scouted/week	1.5	% insect apps by ground	60%	# Scouted Acres	138,908					
% acres Transgenic (Bt) Cotton	-	No. apps by ground	2	Seed Treatments (arthropods) (# acres)	131,597					
Cost/treated acre (Bt) Cotton	-	Cost/app by ground	\$16.00	In-Furrow Applications (# acres)	4,387					
% acres with seed treatment	90%	% Loss to weather	20.0%	Applications by Air (acres)	109,664					
Seed trt. cost/ treated acre	\$9.00	% loss to non-arthropods	0.0%	Applications by Ground (acres)	87,731					
% acres with in-furrow	3%	% loss to other (chemical injury, weeds, diseases, etc.)	5.0%	No. acres with no foliar insecticide applications	-					