

Table 21. Cotton insect loss estimates for pima cotton in New Mexico during 2022.

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	12,580	68%	4,995	27%	1.0	\$10.87	1.0%	0.27	\$2.93	0.68%	503	\$717,782	\$38.80	2.4%
Beet Armyworm	370	2%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Fall Armyworm	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Loopers	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cutworms	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton Leaf Perforator	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Saltmarsh Caterpillar	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	6,290	34%	925	5%	1.0	\$12.84	80.0%	0.05	\$0.64	27.20%	20,128	\$27,249,299	\$1,472.94	92.6%
Cotton Fleahopper	3,330	18%	185	1%	1.0	\$10.85	1.0%	0.01	\$0.11	0.18%	133	\$180,390	\$9.75	0.6%
Stink Bugs (other than brown stink bug)	1,295	7%	148	1%	1.0	\$9.93	1.0%	0.01	\$0.10	0.07%	52	\$70,516	\$3.81	0.2%
Brown Stink Bug	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Clouded Plant Bug	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	555	3%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	17,390	94%	16,650	90%	1.0	\$10.52	1.1%	0.9	\$9.47	1.03%	762	\$1,196,092	\$64.65	4.1%
Aphids	370	2%	185	1%	1.0	\$10.57	0.0%	0.01	\$0.11	0.00%	0	\$39	\$0.00	0.0%
Grasshoppers	370	2%	0	0%	0.0	\$10.74	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged Whitefly	370	2%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Silverleaf Whitefly	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Boll Weevil	0	0%	0	0%	0.0	\$0.00	0.0%	0	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL								1.25	\$13.36	29.16%	21,578	\$29,414,118	\$1,589.95	

SUMMARY DATA

State	Data Input		Yield and Management Results				Economic Results	
	New Mexico		Total Acres			Total	Per Acre	
Region	West		Total Bales Harvested		66,500	Foliar Insecticide Costs	\$247,130	\$13.36
Year	2022		Total Bales Lost to Insects		21,578	Seed Treatment Costs	\$178,956	\$9.67
Total Acres (Pima)	18,500	In-furrow cost/treated acre	9%	Percent Yield Loss	29.2%	In-Furrow Costs	\$3,380	\$0.18
Yield / Acre (pima)	1,168	% acres in Boll Weevil Eradication	\$2.03	Yield w/o Insects (lb/acre)	1,649	Scouting Costs	-	-
Price / lb	\$2.82	Cost/acre Boll Weevil Eradication	100%	Av. # Applications	1.25	Eradication Costs	\$110,075	\$5.95
yield potential (lb/acre)	1,920	% acres in Pink Bollworm Eradication	\$5.95	Total Bales lost (all factors)	28,978	Bt Cotton	\$0	\$0.00
Acres (Upland)	-	Cost/acre Pink Bollworm Eradication	0%	Total % yield Loss	39.2%	Total Costs	\$539,541	\$29.16
Yield / Acre (Upland)	-	% Insect apps by air	\$0.00	Transgenic Cotton (arthropods) (# acres)	0	Yield Loss to Insects	\$29,207,981	\$1,578.81
% Acres Scouted	90%	No. apps by air	28%	Boll Weevil Eradication (# acres)	18,500	Total Losses + Costs	\$29,747,522	\$1,607.97
Fee / Scouted Acre	-	Cost/app by air	28	Pink Bollworm Eradication (# acres)	0			
No. times scouted/week	1	% insect apps by ground	\$21.50	# Scouted Acres	16,650			
% acres Transgenic (Bt) Cotton	0%	No. apps by ground	5%	Seed Treatments (arthropods) (# acres)	16,835			
Cost/treated acre (Bt) Cotton	\$0.00	Cost/app by ground	0	In-Furrow Applications (# acres)	1,665			
% acres with seed treatment	91%	% Loss to weather	\$6.20	Applications by Air (acres)	5,180			
Seed trt. cost/ treated acre	\$10.63	% loss to non-arthropods	5.0%	Applications by Ground (acres)	925			
% acres with in-furrow	9%	% loss to other (chemical injury, weeds, diseases, etc.)	3.0%	No. acres with no foliar insecticide applications	-			