

Table 20. Cotton insect loss estimates for New Mexico 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	5,360	24%	1,787	8.0%	1.0	\$11.20	1.50%	0.08	\$0.90	0.36%	183	\$72,439	\$3.24	11.9%
Beet Armyworm	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	670	3%	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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cutworms	223	1%	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	\$0.00	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	11,836	53%	893	4.0%	1.0	\$12.98	0.80%	0.04	\$0.52	0.42%	216	\$85,979	\$3.85	14.1%
Cotton Fleahopper	4,690	21%	670	3.0%	1.0	\$10.92	1.00%	0.03	\$0.33	0.21%	107	\$41,084	\$1.84	6.7%
Stink Bugs (other than brown stink bug)	1,563	7%	11,167	50.0%	1.0	\$10.44	1.00%	0.50	\$5.22	0.07%	36	\$21,466	\$0.96	3.5%
Brown Stink Bug	223	1%	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	2.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	447	2%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	11,167	50%	0	0.0%	0.0	\$0.00	2.50%	0.00	\$0.00	1.25%	636	\$235,066	\$10.53	38.5%
Thrips	19,430	87%	14,740	66.0%	1.1	\$10.88	0.00%	0.73	\$7.94	0.00%	0	\$154,319	\$6.91	25.3%
Aphids	447	2%	335	1.5%	1.0	\$10.99	0.00%	0.02	\$0.22	0.00%	0	\$98	\$0.00	0.0%
Grasshoppers	670	3%	223	1.0%	1.0	\$11.22	0.00%	0.01	\$0.11	0.00%	0	\$75	\$0.00	0.0%
Banded Winged Whitefly	447	2%	223	1.0%	1.0	\$11.34	0.00%	0.01	\$0.11	0.00%	0	\$51	\$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%
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					1.42			\$15.35		2.31%	1,178	\$610,577	\$27.34	

SUMMARY DATA

State	Data Input		Yield and Management Results				Economic Results	
	New Mexico		Total Acres			Total	Per Acre	
Region	West		Total Bales Harvested	45,969	Foliar Insecticide Costs	\$342,825	\$15.35	
Year	2023		Total Bales Lost to Insects	1,178	Seed Treatment Costs	\$147,880	\$6.62	
Total Acres (Upland)	22,333	In-furrow cost/treated acre	\$2.22	Percent Yield Loss	2.3%	In-Furrow Costs	\$3,471	\$0.16
Yield / Acre (Upland)	988	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	1,011	Scouting Costs	\$123,345	\$5.52
Price / lb	\$0.77	Cost/acre Boll Weevil Eradication	\$5.95	Av. # Applications	1.42	Eradication Costs	\$132,881	\$5.95
yield potential (lb/acre)	1,093	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	4,889	Bt Cotton	\$146,582	\$6.56
Acres (Pima)	16,500	Cost/acre Pink Bollworm Eradication	\$0.00	Total % yield Loss	9.6%	Total Costs	\$896,984	\$40.16
Yield / Acre (Pima)	965	% Insect apps by air	21%	Transgenic Cotton (arthropods) (# acres)	9,492	Yield Loss to Insects	\$435,389	\$19.50
% Acres Scouted	70%	No. apps by air	0	Boll Weevil Eradication (# acres)	22,333	Total Losses + Costs	\$1,332,373	\$59.66
Fee / Scouted Acre	\$7.89	Cost/app by air	\$21.50	Pink Bollworm Eradication (# acres)	0			
No. times scouted/week	1	% insect apps by ground	3%	# Scouted Acres	15,633			
% acres Transgenic (Bt) Cotton	43%	No. apps by ground	1	Seed Treatments (arthropods) (# acres)	13,846			
Cost/treated acre (Bt) Cotton	\$15.44	Cost/app by ground	\$6.44	In-Furrow Applications (# acres)	1,563			
% acres with seed treatment	62%	% Loss to weather	3.6%	Applications by Air (acres)	4,690			
Seed trt. cost/ treated acre	\$10.68	% loss to non-arthropods	2.0%	Applications by Ground (acres)	670			
% acres with in-furrow	7%	% loss to other (chemical injury, weeds, diseases, etc.)	1.7%	No. acres with no foliar insecticide applications	14,963			

Table 20. Cotton insect loss estimates for New Mexico during 2023, 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	4.0%	893	\$40.55	\$14.55	2%	18	1.0
Bollgard III	18.0%	4,020	\$42.22	\$16.34	0%	0	0.0
Bollgard III/Thryvon	2.0%	447	\$44.22	\$18.23	0%	0	0.0
WideStrike	2.0%	447	\$36.66	\$12.26	2%	9	1.0
WideStrike 3	14.0%	3,127	\$38.66	\$14.22	0%	0	0.0
TwinLink	1.0%	223	\$45.45	\$16.55	2%	4	1.0
TwinLink Plus	1.5%	335	\$48.88	\$18.28	2%	7	1.0
Total Bt	42.5%	9,492	\$41.03	\$15.44	0.4%	38	0.004
Herbicide Traits Only	4.0%	893	\$26.77			0	
Conventional	7.0%	1,563	\$12.47			0	
Organic	4.0%	893	\$12.47			0	
Total Upland Cotton	57.5%	12,841	\$34.58	\$15.44	0.3%	38	0.003
Non Upland Cotton							
Pima	42.5%	9,492	\$38.66		-	-	-
Other	0.0%	0	\$0.00		0%	0	0.0
Organic	0.0%	0	\$0.00		0%	0	0.0
Total (all Cotton)		22,333	\$36.31		0.2%	38	0.002

Upland Cotton	Thryvon Bt cost/acre	% acres treated for Thrips	# acres treated for Thrips	# apps for Thrips	% acres treated for Lygus	# acres treated for Lygus	# apps for Lygus
Bollgard III/Thryvon	-	0	0	0	0	0	0