

Table 17. Cotton insect loss estimates for New Mexico during 2020.

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	6,091	9%	3,993	5.9%	1.0	\$10.88	1.10%	0.06	\$0.65	0.10%	128	\$48,213	\$0.71	3.2%
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	2,707	4%	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	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	\$0.00	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	40,608	60%	4,738	7.0%	1.0	\$12.80	0.80%	0.07	\$0.90	0.48%	619	\$250,311	\$3.70	16.6%
Cotton Fleahopper	16,243	24%	677	1.0%	1.0	\$10.85	1.00%	0.01	\$0.11	0.24%	310	\$108,898	\$1.61	7.2%
Stink Bugs (other than brown stink bug)	6,091	9%	541	0.8%	1.0	\$9.91	1.00%	0.01	\$0.10	0.09%	116	\$40,693	\$0.60	2.7%
Brown Stink Bug	677	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	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	2,030	3%	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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	60,912	90%	54,821	81.0%	1.2	\$10.50	1.10%	0.97	\$10.19	0.99%	1,277	\$1,061,720	\$15.69	70.3%
Aphids	1,218	2%	812	1.2%	1.0	\$10.57	0.00%	0.01	\$0.11	0.00%	0	\$129	\$0.00	0.0%
Grasshoppers	1,354	2%	0	0.0%	0.0	\$10.74	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged Whitefly	1,083	2%	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%
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					1.13	\$12.05	1.90%			1.90%	2,450	\$1,509,964	\$22.31	

SUMMARY DATA

State	Data Input		Yield and Management Results			Economic Results	
	New Mexico	West	Total Acres	Total Bales Harvested	Foliar Insecticide Costs	Total	Per Acre
Region	West			116,184	\$815,348	\$815,348	\$12.05
Year	2020			2,450	\$438,857	\$438,857	\$6.48
Total Acres (Upland)	67,680	In-furrow cost/treated acre	\$1.99	Percent Yield Loss	1.9%	In-Furrow Costs	\$8,081
Yield / Acre (Upland)	824	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	840	Scouting Costs	\$356,071
Price / lb	\$0.72	Cost/acre Boll Weevil Eradication	\$5.95	Av. # Applications	1.13	Eradication Costs	\$402,696
yield potential (lb/acre)	915	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	12,771	Bt Cotton	\$840,640
Acres (Pima)	5,280	Cost/acre Pink Bollworm Eradication	\$0.00	Total % yield Loss	9.9%	Total Costs	\$2,861,693
Yield / Acre (Pima)	868	% Insect apps by air	24%	Transgenic Cotton (arthropods) (# acres)	54,821	Yield Loss to Insects	\$846,720
% Acres Scouted	71%	No. apps by air	1	Boll Weevil Eradication (# acres)	67,680	Total Losses + Costs	\$3,708,413
Fee / Scouted Acre	\$7.41	Cost/app by air	\$6.46	Pink Bollworm Eradication (# acres)	0		
No. times scouted/week	1	% insect apps by ground	16%	# Scouted Acres	48,053		
% acres Transgenic (Bt) Cotton	81%	No. apps by ground	1	Seed Treatments (arthropods) (# acres)	41,285		
Cost/treated acre (Bt) Cotton	\$15.33	Cost/app by ground	\$4.72	In-Furrow Applications (# acres)	4,061		
% acres with seed treatment	61%	% Loss to weather	4.0%	Applications by Air (acres)	16,243		
Seed trt. cost/ treated acre	\$10.63	% loss to non-arthropods	2.1%	Applications by Ground (acres)	10,829		
% acres with in-furrow	6%	% loss to other (chemical injury, weeds, diseases, etc.)	1.9%	No. acres with no foliar insecticide applications	46,669		

Table 17. Cotton insect loss estimates for New Mexico during 2020, 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	12.0%	8,122	\$40.25	\$14.24	4%	325	1.0
Bollgard III	42.0%	28,426	\$42.10	\$16.22	0%	0	0.0
WideStrike	4.0%	2,707	\$35.03	\$12.11	3%	81	1.0
WideStrike 3	19.0%	12,859	\$37.24	\$14.21	0%	0	0.0
TwinLink	1.0%	677	\$45.25	\$16.51	0%	0	0.0
TwinLink Plus	3.0%	2,030	\$48.77	\$18.34	0%	0	0.0
Total Bt	81.0%	54,821	\$40.62	\$15.33	0.7%	406	0.007
Herbicide Traits Only	11.0%	7,445	\$26.44	-	34%	2,531	1.0
Conventional	7.0%	4,738	\$12.22	-	22%	1,042	1.0
Organic	1.0%	677	\$12.22	-	0%	0	0.0
Total Upland Cotton	100.0%	67,681	\$36.79	\$15.33	5.9%	3,979	0.059
Non Upland Cotton							
Pima	9.0%	6,091	\$38.47	-	33%	2,010	1.0
Other	0.0%	0	\$0.00	-	0%	0	0.0
Organic	0.0%	0	\$0.00	-	0%	0	0.0
Total (all Cotton)		73,772	\$36.93	-	8.1%	5,989	0.081