Table 17. Cotton insect loss estimates for pima cotton in New Mexico during 2021.

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	3,365	68%	1,336	27.0%	1.0	$10.87	1.00%	0.27	$2.93	0.68%	64	$44,896	$9.07	26.4%
Beet Armyworm	99	2%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Fall Armyworm	0		0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Loopers	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Cutworms	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$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	$0.00	0.00%	0	$0	$0.00	0.0%
Saltmarsh Caterpillar	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Lygus	1,682	34%	247	5.0%	1.0	$12.84	0.80%	0.05	$0.64	0.27%	25	$14,760	$2.98	8.7%
Cotton Fleahopper	891	18%	49	1.0%	1.0	$10.85	1.00%	0.01	$0.11	0.18%	17	$9,399	$1.90	5.5%
Stink Bugs (other than brown stink bug)	346	7%	40	0.8%	1.0	$9.93	1.00%	0.01	$0.10	0.07%	7	$3,865	$0.78	2.3%
Brown Stink Bug	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$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	$0.00	0.00%	0	$0	$0.00	0.0%
Leaf Footed Bugs	148	3%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Spider Mites	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Thrips	4,651	94%	4,453	90.0%	1.0	$10.52	1.10%	0.9	$9.47	1.03%	97	$97,115	$19.63	57.1%
Aphids	99	2%	49	1.0%	1.0	$10.57	0.00%	0.01	$0.11	0.00%	0	$10	$0.00	0.0%
Grasshoppers	99	2%	0	0.0%	0.0	$10.74	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Banded Winged Whitefly	99	2%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Silverleaf Whitefly	0	0%	0	0.0%	0.0	$0.00	0.00%	0	$0.00	0.00%	0	$0	$0.00	0.0%
Boll Weevil	0	0%	0	0%	0.0	$0.00		0	$0.00	0.00%	0	$0	$0.00	0.0%
TOTAL								1.25	$13.36	2.23%	210	$170,045	$34.37	

SUMMARY DATA

Data Input				Yield and Management Results		Economic Results		
State	New Mexico			Total Acres	4,948		Total	Per Acre
Region	West			Total Bales Harvested	8,989	Foliar Insecticide Costs	$66,097	$13.36
Year	2021			Total Bales Lost to Insects	210	Seed Treatment Costs	$47,863	$9.67
Total Acres (Pima)	4,948	In-furrow cost/treated acre	$2.03	Percent Yield Loss	2.2%	In-Furrow Costs	$904	$0.18
Yield / Acre (Pima)	872	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	892	Scouting Costs	$33,488	$6.77
Price / lb	$1.14	Cost/acre Boll Weevil Eradication	$5.95	Av. # Applications	1.25	Eradication Costs	$29,441	$5.95
yield potential (lb/acre)	911	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	1,149	Bt Cotton	$0	$0.00
% Acres Scouted	90%	Cost/acre Pink Bollworm Eradication	$0.00	Total % yield Loss	12.2%	Total Costs	$177,793	$35.93
Fee / Scouted Acre	$7.52	% Insect apps by air	28%	Transgenic Cotton (arthropods) (# acres)	0	Yield Loss to Insects	$114,912	$23.22
No. times scouted/week	1	No. apps by air	1	Boll Weevil Eradication (# acres)	4,948	Total Losses + Costs	$292,705	$59.16
% acres Transgenic (Bt) Cotton	0%	Cost/app by air	$21.50	Pink Bollworm Eradication (# acres)	0			
Cost/treated acre (Bt) Cotton	$0.00	% insect apps by ground	5%	# Scouted Acres	4,453			
% acres with seed treatment	91%	No. apps by ground	1	Seed Treatments (arthropods) (# acres)	4,503			
Seed trt. cost/ treated acre	$10.63	Cost/app by ground	$6.20	In-Furrow Applications (# acres)	445			
% acres with in-furrow	9%	% Loss to weather	5.0%	Applications by Air (acres)	1,385			
		% loss to non-arthropods	3.0%	Applications by Ground (acres)	247			
		% loss to other (chemical injury, weeds, diseases, etc.)	2.0%	No. acres with no foliar insecticide applications	0			