Table 20. Cotton insect loss estimates for New Mexico during 2017.

	Acres	% Acres		% Acres	# of apps	Cost of 1	% loss /acre	# of apps/		overall %	Bales lost /		Loss +	% Total
Pest	Infested	Infested	Acres Treated	Treated	/acres treated	application	infested	total acres	cost/acre	reduction	pest	Loss + cost	cost/acre	Loss+Cost
Bollworm/Budworm	2,907	14%	415	2.0%	1.0	\$10.78	1.10%	0.02	\$0.22	0.15%	85	\$32,451	\$1.56	5.1%
Beet Armyworm	21	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Fall Armyworm	830	4%	208	1.0%	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	7,889	38%	1,246	6.0%	1.0	\$12.42	1.60%	0.06	\$0.75	0.61%	337	\$132,052	\$6.36	20.8%
Cotton Fleahopper	5,813	28%	208	1.0%	1.0	\$10.85	0.80%	0.01	\$0.11	0.22%	124	\$47,056	\$2.27	7.4%
Stink Bugs (other than brown stink bug)	2,491	12%	208	1.0%	1.0	\$9.92	1.70%	0.01	\$0.10	0.20%	113	\$42,554	\$2.05	6.7%
Brown Stink Bug	208	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	208	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	208	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	62	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	17,854	86%	3,737	18.0%	1.0	\$6.89	2.00%	0.18	\$1.24	1.72%	954	\$379,321	\$18.27	59.9%
Aphids	208	1%	42	0.2%	1.0	\$10.57	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Grasshoppers	415	2%	62	0.3%	1.0	\$10.72	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged Whitefly	415	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								0.28	\$2.41	2.91%	1,613	\$633,434	\$30.51	

SUMMARY DATA

	Data	a Input	Yield and Management Results	Econon	Economic Results			
State	New Mexico			Total Acres	22,886		Total	Per Acre
Region	West			Total Bales Harvested	47,750	Foliar Insecticide Costs	\$50,007	\$2.41
Year	2017			Total Bales Lost to Insects	1,613	Seed Treatment Costs	\$136,014	\$6.55
Total Acres (Upland)	20,761	In-furrow cost/treated acre	\$1.96	Percent Yield Loss	2.9%	In-Furrow Costs	\$2,441	\$0.12
Yield / Acre (Upland)	1,104	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	1,137	Scouting Costs	\$111,242	\$5.36
Price / lb	\$0.78	Cost/acre Boll Weevil Eradication	\$5.95	Av. # Applications	0.28	Eradication Costs	\$223,087	\$10.75
yield potential (lb/acre)	1,282	% acres in Pink Bollworm Eradication	69%	Total Bales lost (all factors)	8,046	Bt Cotton	\$237,411	\$11.44
Acres (Pima)	2,125	Cost/acre Pink Bollworm Eradication	\$6.95	Total % yield Loss	14.5%	Total Costs	\$760,202	\$36.62
Yield / Acre (Pima)	1,182	% Insect apps by air	31%	Transgenic Cotton (arthropods) (# acres)	15,986	Yield Loss to Insects	\$603,907	\$29.09
% Acres Scouted	73%	No. apps by air	1.1	Boll Weevil Eradication (# acres)	20,761	Total Losses + Costs	\$1,364,109	\$65.71
Fee / Scouted Acre	\$7.34	Cost/app by air	\$6.37	Pink Bollworm Eradication (# acres)	14,325			
No. times scouted/week	1	% insect apps by ground	21%	# Scouted Acres	15,156			
% acres Transgenic (Bt) Cotton	77%	No. apps by ground	1	Seed Treatments (arthropods) (# acres)	12,664			
Cost/treated acre (Bt) Cotton	\$14.85	Cost/app by ground	\$4.69	In-Furrow Applications (# acres)	1,246			
% acres with seed treatment	61%	% Loss to weather	7.0%	Applications by Air (acres)	6,436			
Seed trt. cost/ treated acre	\$10.74	% loss to non-arthropods	2.6%	Applications by Ground (acres)	4,360			
% acres with in-furrow	6%	% loss to other (chemical injury, weeds, diseases, etc.)	2.0%	No. acres with no foliar insecticide applications	11,003			

Table 20. Cotton insect loss estimates for New Mexico during 2017, continued.

					% acres treated	# acres treated	# apps	% of Population
Upland Cotton	% Acres	# Acres	Total cost/acre	Bt cost/acre	for BW/TBW	for BW/TBW	for BW/TBW	Bollworm
Bollgard II	25.0%	5,190	\$40.25	\$14.24	2%	93	1.0	92%
Bollgard III	28.0%	5,813	\$42.10	\$16.22	0%	0	0.0	92%
WideStrike	10.0%	2,076	\$35.03	\$12.11	3%	52	1.0	92%
WideStrike 3	11.0%	2,284	\$37.24	\$14.21	0%	0	0.0	92%
TwinLink	1.0%	208	\$55.22	\$17.51	0%	0	1.0	92%
TwinLink Plus	2.0%	415	\$58.31	\$19.23	0%	0	0.0	92%
Total Bt	77.0%	15,986	\$40.48	\$14.85	0.9%	145	0.5	92.0%
Herbicide Traits Only	14.0%	2,907	\$26.31	-	43%	1,250	1.0	92%
Conventional	8.0%	1,661	\$12.10	-	28%	465	1.0	92%
Organic	1.0%	208	\$12.10	-	0%	0	0.0	92%
Total Upland Cotton	100.0%	20,762	\$24.15	\$14.85	9.0%	1,860	0.7	92.0%
Non Upland Cotton								
Pima	10%	2,124	\$38.31	-	2%	42	1.0	-
Other	0%	0	-	-	-	-	-	-
Organic	0%	0	-	-	-	-	-	-
Total (all Cotton)		22,886	\$25.47		8.3%	1,902	0.7	