Table 12. Cotton insect loss estimates for California pima cotton during 2022.

	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	1,125	1.0%	0	0.0%	0.0	\$0.00	0.02%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Beet Armyworm	2,249	2.0%	1,125	1.0%	1.0	\$19.00	0.20%	0.01	\$0.19	0.00%	17	\$22,867	\$0.20	0.1%
Fall Armyworm	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Loopers	3,374	3.0%	1,687	1.5%	1.0	\$19.00	0.20%	0.02	\$0.38	0.01%	25	\$34,282	\$0.30	0.1%
Cutworms	0	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	\$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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	101,209	90.0%	84,341	75.0%	2.0	\$27.00	5.00%	1.50	\$40.50	4.50%	18,713	\$28,800,108	\$256.11	87.5%
Cotton Fleahopper	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Stink Bugs (other than	2,249	2.0%	1,125	1.0%	1.0	\$18.00	0.40%	0.01	\$0.18	0.01%	33	\$43,965	\$0.39	0.1%
brown stink bug)														
Brown Stink Bug	0	0.0%	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	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	89,963	80.0%	61,850	55.0%	1.0	\$22.00	0.04%	0.55	\$12.10	0.03%	133	\$1,264,115	\$11.24	3.8%
Thrips	5,623	5.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Aphids	28,114	25.0%	16,868	15.0%	1.0	\$25.00	0.05%	0.15	\$3.75	0.01%	54	\$176,706	\$1.57	0.5%
Grasshoppers	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Whitefly														
Silverleaf Whitefly	50,604	45.0%	39,359	35.0%	1.7	\$36.00	0.60%	0.60	\$21.60	0.27%	1,123	\$2,575,413	\$22.90	7.8%
Boll Weevil	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL								2.84	\$78.70	4.83%	20,098	\$32,917,456	\$292.72	

## SUMMARY DATA

	Data	a Input		Yield and Management Results	Economic Results			
State	California			Total Acres	112,454		Total	Per Acre
Region	West			Total Bales Harvested	350,013	Foliar Insecticide Costs	\$8,850,130	\$78.70
Year				Total Bales Lost to Insects	20,098	Seed Treatment Costs	\$910,877	\$8.10
Total Acres (Pima)	112,454	In-furrow cost/treated acre	\$18.00	Percent Yield Loss	4.8%	In-Furrow Costs	\$202,417	\$1.80
Yield / Acre (Pima)	1,494	% acres in Boll Weevil Eradication	0%	Yield w/o Insects (lb/acre)	1,570	Scouting Costs	\$1,602,470	\$14.25
Price / lb	\$2.75	Cost/acre Boll Weevil Eradication	\$0.00	Av. # Applications	2.84	Eradication Costs	\$224,908	\$2.00
yield potential (lb/acre)	1,775	% acres in Pink Bollworm Eradication	100%	Total Bales lost (all factors)	65,841	Bt Cotton	\$0	\$0.00
Acres (Upland)	-	Cost/acre Pink Bollworm Eradication	\$2.00	Total % yield Loss	15.8%	Total Costs	\$11,790,802	\$104.85
Yield / Acre (Upland)	-	% Insect apps by air	70%	Transgenic Cotton (arthropods) (# acres)	0	Yield Loss to Insects	\$26,529,360	\$235.91
% Acres Scouted	95%	No. apps by air	2	Boll Weevil Eradication (# acres)	0	Total Losses + Costs	\$38,320,162	\$340.76
Fee / Scouted Acre	\$15.00	Cost/app by air	\$19.00	Pink Bollworm Eradication (# acres)	112,454			
No. times scouted/week	1.5	% insect apps by ground	55%	# Scouted Acres	106,861			
% acres Transgenic (Bt) Cotton	0%	No. apps by ground	2.5	Seed Treatments (arthropods) (# acres)	101,209			
Cost/treated acre (Bt) Cotton	\$0.00	Cost/app by ground	\$16.00	In-Furrow Applications (# acres)	11,245			
% acres with seed treatment	90%	% Loss to weather	5.0%	Applications by Air (acres)	78,718			
Seed trt. cost/ treated acre	\$9.00	% loss to non-arthropods	0.0%	Applications by Ground (acres)	61,850			
% acres with in-furrow	10%	% loss to other (chemical injury, weeds, diseases, etc.)	6.0%	No. acres with no foliar insecticide applications	5,623			