

Table 23

Tennessee Summary

Cotton Insect Losses 2016

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Bollworm/Budworm	161,700	122,500	1	0.55	\$4.90	0.726%	4,688
Beet Armyworm	7,350	25	0	0.00	\$0.00	0.000%	0
Fall Armyworm	56,350	24,500	1	0.10	\$0.89	0.184%	1,188
Loopers	0	0	1	0.00	\$0.00	0.000%	0
Cutworms	17,150	147,000	1	0.60	\$1.14	0.000%	0
Cotton Leafperforator	0	0	0	0.00	\$0.00	0.000%	0
Saltmarsh Caterpillar	12,250	0	0	0.00	\$0.00	0.000%	0
Verde Plant Bugs	0	0	0	0.00	\$0.00	0.000%	0
Cotton Fleahopper	0	0	0	0.00	\$0.00	0.000%	0
Lygus	245,000	245,000	3	3.00	\$26.40	2.400%	15,499
Stink Bugs	183,750	36,750	1	0.15	\$1.20	0.450%	2,906
Clouded Plant bugs	73,500	1,225	1	0.01	\$0.04	0.090%	581
Brown Stink bug	0	0	0	0.00	\$0.00	0.000%	0
Bagrada Bugs	0	0	0	0.00	\$0.00	0.000%	0
Leaf footed bugs	0	0	0	0.00	\$0.00	0.000%	0
Spider Mites	61,250	7,350	1	0.03	\$0.36	0.075%	484
Thrips	245,000	208,250	1	0.94	\$3.04	1.000%	6,458
Aphids	73,500	2,450	1	0.01	\$0.09	0.009%	58
Grasshoppers	0	0	0	0.00	\$0.00	0.000%	0
Banded Winged Whitefly	24,500	2,450	1	0.01	\$0.09	0.100%	646
Silverleaf Whitefly	0	0	0	0.00	\$0.00	0.000%	0
Darkling Beetle	0	0	0	0.00	\$0.00	0.000%	0
Pale-striped Flea Beetles	0	0	0	0.00	\$0.00	0.000%	0
Mealybugs	0	0	0	0.00	\$0.00	0.000%	0
Crickets	0	0	0	0.00	\$0.00	0.000%	0
Boll Weevils	0	0	0	0.00	\$0.00	0.000%	0
				5.39	\$38.14	5.034%	32,509

Yield & Management Results	
Total Acres	245,000
Total bales Harvested	548,698
yield (lbs/acre)	1,075
Total bales Lost to Insects	32,509
Percent Yield Loss	5.03%
Yield w/o Insects (lbs/ac)	1,132
Ave. # Spray Applications	5.39
Bales lost all factors	97,087
% yield loss all factors	15.03%

Economic Results		
	Total	Per Acre
Foliar Insecticides Costs	\$9,344,606	\$38.14
At Planting Costs	\$2,425,500	\$9.90
In-furrow costs	\$0	\$0.00
Scouting costs	\$2,058,000	\$8.40
Eradication costs	\$367,500	\$1.50
Transgenic cotton	\$5,492,900	\$22.42
Total Costs	\$19,688,506	\$80.36
Yield Lost to insects	\$11,391,094	\$46.49
Total Losses + Costs	\$31,079,601	\$126.86