

Table 23

Tennessee

Cotton Insect Losses 2012

Pest	acres infested	Tennessee		#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
		acres treated	#apps/ acre trtd					
Boll Weevil	0	0	0	0	0.000	\$0.00	0.00%	0
Bollworm/Budworm	300,000	93,750	1	0.275	\$1.79	\$1.79	0.56%	5,566
Pink Bollworm	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Cotton Fleahopper	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Lygus	375,000	375,000	4	3.900	\$29.25	\$29.25	3.30%	32,800
Cotton Leaf Perforator	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Spider Mites	150,000	93,750	1	0.300	\$2.10	\$2.10	0.40%	3,976
Thrips	375,000	300,000	1	0.960	\$2.40	\$2.40	2.10%	20,873
Beet Armyworm	3,750	0	0	0.000	\$0.00	\$0.00	0.00%	0
Fall Armyworm	11,250	0	0	0.000	\$0.00	\$0.00	0.00%	0
European Cornborer	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Stink Bugs	300,000	123,750	1	0.330	\$1.49	\$1.49	0.40%	3,976
Grasshoppers	3,750	0	0	0.000	\$0.00	\$0.00	0.00%	0
Saltmarsh Caterpillars	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Aphids	300,000	7,500	1	0.020	\$0.10	\$0.10	0.04%	398
Banded Winged Whitefly	30,000	3,750	1	0.010	\$0.07	\$0.07	0.00%	8
Silverleaf Whitefly (Bemesia)	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Loopers	3,750	0	0	0.000	\$0.00	\$0.00	0.00%	0
Southern Armyworms	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Cutworms	11,250	262,500	1	0.700	\$1.33	\$1.33	0.00%	3
Clouded Plant bugs	206,250	37,500	1	0.100	\$0.00	\$0.00	0.08%	820
False Chinch Bugs	56,250	30,000	1	0.096	\$0.82	\$0.82	0.38%	3,727
Other Insects	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Other Insects	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Other Insects	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
Other Insects	0	0	0	0.000	\$0.00	\$0.00	0.00%	0
				6.691	\$39.33	\$39.33	7.26%	72,146

**Yield & Management Results**

Total Acres	375,000
Total bales Harvested	703,125
yield (lbs/acre)	900
Total bales Lost to Insects	72,146
Percent Yield Loss	7.26%
Yield w/o Insects (lbs/ac)	970
Ave. # Spray Applications	6.69
Bales lost all factors	290,812
% yield loss all factors	29.3%

**Economic Results**

	Total	Per Acre
Foliar Insecticides Costs	\$14,750,063	\$39
At Planting Costs	\$3,341,250	\$8.91
In-furrow costs	\$36,750	\$0.10
Scouting costs	\$2,850,000	\$7.13
Eradication costs	\$375,000	\$1.50
Transgenic cotton	\$6,675,938	\$16.10
Total Costs	\$28,029,000	\$67.28
Yield Lost to insects	\$24,933,629	\$115.13
Total Losses + Costs	\$52,962,629	\$182.40