

Table 23

Tennessee

Cotton Insect Losses 2009

Pest	acres infested	acres treated	#apps/ acre		cost/ acre	%red	Bales lost
			trtd	#apps/ tot			
Boll Weevil	0	0	0.0	0.00	\$0.00	0.00%	0
Bollworm/Budworm	240,000	39,000	1.2	0.16	\$1.26	0.40%	3,328
Pink Bollworm	0	0	0.0	0.00	\$0.00	0.00%	0
Cotton Fleahopper	0	0	0.0	0.00	\$0.00	0.00%	0
Lygus	300,000	195,000	1.4	0.91	\$7.28	1.20%	9,984
Cotton Leaf Perforator	0	0	0.0	0.00	\$0.00	0.00%	0
Spider Mites	210,000	21,000	1.1	0.08	\$0.92	0.56%	4,659
Thrips	300,000	180,000	1.1	0.66	\$4.46	0.70%	5,824
Beet Armyworm	9,000	0	0.0	0.00	\$0.00	0.00%	0
Fall Armyworm	21,000	3,000	0.0	0.00	\$0.00	0.03%	233
European Cornborer	0	0	0.0	0.00	\$0.00	0.00%	0
Stink Bugs	300,000	135,000	1.2	0.55	\$4.57	0.70%	5,824
Grasshoppers	6,000	0	0.0	0.00	\$0.00	0.00%	0
Saltmarsh Caterpillars	6,000	0	0.0	0.00	\$0.00	0.00%	0
Aphids	225,000	12,000	1.0	0.04	\$0.32	0.04%	312
Banded Winged Whitefly	6,000	0	0.0	0.00	\$0.00	0.00%	0
Silverleaf Whitefly (Bemesia)	0	0	0.0	0.00	\$0.00	0.00%	0
Loopers	15,000	0	0.0	0.00	\$0.00	0.00%	0
Southern Armyworms	3,000	0	0.0	0.00	\$0.00	0.00%	0
Cutworms	45,000	210,000	1.0	0.70	\$1.68	0.00%	0
Clouded Plant bugs	255,000	90,000	1.2	0.36	\$2.97	0.77%	6,365
Other Insects	0	0	0.0	0.00	\$0.00	0.00%	0
				3.46	\$23.46	4.39%	36,528

Yield & Management Results	
Total Acres	300,000
Total bales Harvested	537,500
Yield (lbs/acre)	860
Total bales Lost to Insects	36,528
Percent Yield Loss	4.39%
Yield w/o Insects (lbs/acre)	899
Ave. # Spray Applications	3.457
Yield loss to all factors	269,482
% Yield loss to all factors	32.39%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$7,037,693	\$23.46
At Planting Costs	\$2,613,600	\$8.71
Scouting costs	\$1,890,000	\$6.30
Eradication costs	\$1,500,000	\$5.00
Transgenic cotton	\$3,486,000	\$11.62
Total Costs	\$16,527,293	\$55.09
Yield Lost to insects	\$11,396,728	\$37.99
Total Losses + Costs	\$27,924,020	\$93.08