

Table 21

Tennessee

Cotton Insect Losses 2008

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Boll Weevil	0	0	0.00	0.000	\$0.00	0.000%	0
Bollworm/Budworm	224,000	33,600	1.00	0.120	\$1.17	0.400%	2,931
Pink Bollworm	0	0	0.00	0.000	\$0.00	0.000%	0
Cotton Fleahopper	0	0	0.00	0.000	\$0.00	0.000%	0
Lygus	280,000	238,000	1.40	1.190	\$11.66	1.100%	8,059
Cotton Leaf Perforator	0	0	0.00	0.000	\$0.00	0.000%	0
Spider Mites	140,000	56,000	1.50	0.300	\$4.20	1.150%	8,426
Thrips	280,000	196,000	1.30	0.910	\$6.92	1.400%	10,257
Beet Armyworm	8,400	0	0.00	0.000	\$0.00	0.000%	0
Fall Armyworm	28,000	2,800	1.00	0.010	\$0.11	0.030%	220
European Cornborer	0	0	0.00	0.000	\$0.00	0.000%	0
Stink Bugs	280,000	238,000	1.70	1.445	\$14.16	1.600%	11,723
Grasshoppers	5,600	0	0.00	0.000	\$0.00	0.000%	0
Saltmarsh Caterpillars	0	0	0.00	0.000	\$0.00	0.000%	0
Aphids	210,000	14,000	1.00	0.050	\$0.46	0.113%	824
Banded Winged Whitefly	28,000	0	0.00	0.000	\$0.00	0.000%	0
Silverleaf Whitefly (Bemesia)	3	0	0.00	0.000	\$0.00	0.000%	0
Loopers	11,200	0	0.00	0.000	\$0.00	0.000%	0
Southern Armyworms	0	0	0.00	0.000	\$0.00	0.000%	0
Cutworms	28,000	196,000	1.00	0.700	\$1.68	0.001%	7
Clouded Plant bugs	252,000	98,000	0.80	0.280	\$2.73	0.450%	3,297
Other Insects	0	0	0.00	0.000	\$0.00	0.000%	0

Yield & Management Results	
Total Acres	280,000
Total bales Harvested	525,000
Yield (lbs/acre)	900
Total bales Lost to Insects	45,744
Percent Yield Loss	6.24%
Yield w/o Insects (lbs/acre)	960
Ave. # Spray Applications	5.005
Yield loss to all factors	207,662
% Yield loss to all factors	28.34%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$12,063,520	\$43.08
At Planting Costs	\$2,439,360	\$8.71
Scouting costs	\$1,743,000	\$6.23
Eradication costs	\$2,688,000	\$9.60
Transgenic cotton	\$3,528,000	\$12.60
Total Costs	\$22,461,880	\$80.22
Yield Lost to insects	\$14,272,052	\$50.97
Total Losses + Costs	\$36,733,932	\$131.19