

Table 20

North Carolina

Cotton Insect Losses 2009

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Boll Weevil	0	0	0.0	0.00	\$0.00	0.00%	0
Bollworm/Budworm	361,000	289,000	0.5	0.40	\$3.20	0.70%	4,411
Pink Bollworm	0	0	0.0	0.00	\$0.00	0.00%	0
Cotton Fleahopper		0	0.0	0.00	\$0.00	0.00%	0
Lygus	361,000	4,000	1.0	0.01	\$0.10	0.10%	630
Cotton Leaf Perforator	0	0	0.0	0.00	\$0.00	0.00%	0
Spider Mites	361,000	35,000	1.0	0.10	\$1.16	0.05%	315
Thrips	361,000	361,000	0.8	0.80	\$4.80	0.50%	3,151
Beet Armyworm	0	0	0.0	0.00	\$0.00	0.00%	0
Fall Armyworm	30,000	10,000	1.0	0.03	\$0.28	0.08%	524
European Cornborer	0	0	0.0	0.00	\$0.00	0.00%	0
Stink Bugs	361,000	289,000	0.5	0.40	\$3.20	1.80%	11,343
Grasshoppers	361,000	1,000	1.0	0.00	\$0.02	0.00%	0
Saltmarsh Caterpillars	0	0	0.0	0.00	\$0.00	0.00%	0
Aphids	361,000	14,440	1.0	0.04	\$0.44	0.10%	630
Banded Winged Whitefly	0	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	0	0	0.0	0.00	\$0.00	0.00%	0
Southern Armyworms	0	0	0.0	0.00	\$0.00	0.00%	0
Cutworms	15,000	15,000	1.0	0.04	\$0.15	0.00%	0
Clouded Plant bugs	0	0	0.0	0.00	\$0.00	0.00%	0
Other Insects	0	0	0.0	0.00	\$0.00	0.00%	0
				1.82	\$13.35	3.33%	21005

Yield & Management Results	
Total Acres	361,000
Total bales Harvested	609,188
Yield (lbs/acre)	810
Total bales Lost to Insects	21,005
Percent Yield Loss	3.33%
Yield w/o Insects (lbs/acre)	838
Ave. # Spray Applications	1.821
Yield loss to all factors	21,005
% Yield loss to all factors	3.3%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$4,820,640	\$13.35
At Planting Costs	\$4,873,500	\$13.50
Scouting costs	\$2,888,000	\$8.00
Eradication costs	\$451,250	\$1.25
Transgenic cotton	\$9,025,000	\$25.00
Total Costs	\$22,058,390	\$61.10
Yield Lost to insects	\$6,553,548	\$18.15
Total Losses + Costs	\$28,611,938	\$79.26