

**Table 17a**

**Mississippi Delta**

**Cotton Insect Losses 2011**

Pest	acres infested	acres		#apps/ acre	#apps/ tot	cost/ acre	%red	Bales lost
		treated	trtd	acres	acres			
Boll Weevil	0	0	0	0.000	0.000	\$0.00	0.00%	0
Bollworm/Budworm	427,500	382,500	3	2.125	2.125	\$19.13	0.95%	15,269
Pink Bollworm	0	0	0	0.000	0.000	\$0.00	0.00%	0
Cotton Fleahopper	90,000	13,500	1	0.030	0.030	\$0.42	0.02%	321
Lygus	445,500	445,500	7	6.930	6.930	\$97.02	4.95%	79,558
Cotton Leaf Perforator	0	0	0	0.000	0.000	\$0.00	0.00%	0
Spider Mites	337,500	171,000	2	0.798	0.798	\$9.58	1.13%	18,081
Thrips	445,500	315,000	2	1.330	1.330	\$9.98	0.20%	3,182
Beet Armyworm	4,500	0	0	0.000	0.000	\$0.00	0.00%	0
Fall Armyworm	4,500	0	0	0.000	0.000	\$0.00	0.00%	0
European Cornborer	0	0	0	0.000	0.000	\$0.00	0.00%	0
Stink Bugs	90,000	22,500	1	0.050	0.050	\$0.50	0.10%	1,607
Grasshoppers	22,500	90,000	1	0.200	0.200	\$1.20	0.01%	80
Saltmarsh Caterpillars	4,500	0	0	0.000	0.000	\$0.00	0.00%	0
Aphids	315,000	180,000	1	0.520	0.520	\$7.28	0.07%	1,125
Banded Winged Whitefly	45,000	4,500	1	0.010	0.010	\$0.14	0.01%	161
Silverleaf Whitefly (Bemesia)	0	0	0	0.000	0.000	\$0.00	0.00%	0
Loopers	112,500	4,500	1	0.010	0.010	\$0.12	0.03%	402
Southern Armyworms	0	0	0	0.000	0.000	\$0.00	0.00%	0
Cutworms	9,000	180,000	1	0.400	0.400	\$2.40	0.00%	3
Clouded Plant bugs	45,000	22,500	1	0.050	0.050	\$0.60	0.30%	4,822
Other Insects	0	0	0	0.000	0.000	\$0.00	0.00%	0
				12.453		\$148.36	7.75%	124,612

**Yield & Management Results**

Total Acres	450,000
Total bales Harvested	984,375
yield (lbs/acre)	1,050
Total bales Lost to Insects	124,612
Percent Yield Loss	7.75%
Yield w/o Insects (lbs/ac)	1,138
Ave. # Spray Applications	12.45
Bales lost all factors	622,852
% yield loss all factors	38.8%

**Economic Results**

	Total	Per Acre
Foliar Insecticides Costs	\$66,760,200	\$148.36
At Planting Costs	\$4,189,500	\$9.31
In-furrow costs	\$94,500	\$0.21
Scouting costs	\$3,273,750	\$7.28
Eradication costs	\$1,800,000	\$4.00
Transgenic cotton	\$12,080,430	\$26.85
Total Costs	\$88,198,380	\$196.00
Yield Lost to insects	\$59,813,527	\$132.92
Total Losses + Costs	\$148,011,907	\$328.92

