

Table 15a

Mississippi Delta

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	197,591	141,137	1.50	0.750	\$6.75	0.700%	5,048
Pink Bollworm	0	0	0.00	0.000	\$0.00	0.000%	0
Cotton Fleahopper	14,114	0	0.00	0.000	\$0.00	0.000%	0
Lygus	268,159	254,046	5.50	4.950	\$51.98	1.188%	8,563
Cotton Leaf Perforator	0	0	0.00	0.000	\$0.00	0.000%	0
Spider Mites	169,364	98,796	1.20	0.420	\$9.24	0.450%	3,245
Thrips	225,818	141,137	1.00	0.500	\$3.75	0.000%	0
Beet Armyworm	5,645	0	0.00	0.000	\$0.00	0.000%	0
Fall Armyworm	11,291	0	0.00	0.000	\$0.00	0.000%	0
European Cornborer	0	0	0.00	0.000	\$0.00	0.000%	0
Stink Bugs	70,568	42,341	1.00	0.150	\$1.35	0.125%	901
Grasshoppers	14,114	2,823	1.00	0.010	\$0.06	0.005%	36
Saltmarsh Caterpillars	11,291	0	0.00	0.000	\$0.00	0.000%	0
Aphids	127,023	56,455	1.00	0.200	\$1.90	0.045%	324
Banded Winged Whitefly	5,645	0	0.00	0.000	\$0.00	0.000%	0
Silverleaf Whitefly (Bemesia)	0	0	0.00	0.000	\$0.00	0.000%	0
Loopers	70,568	22,582	1.00	0.080	\$1.12	0.025%	180
Southern Armyworms	2,823	0	0.00	0.000	\$0.00	0.000%	0
Cutworms	5,645	112,909	1.00	0.400	\$2.40	0.000%	1
Clouded Plant bugs	14,114	5,645	1.00	0.020	\$0.19	0.025%	180
Other Insects	0	0	0.00	0.000	\$0.00	0.000%	0

Yield & Management Results	
Total Acres	282,273
Total bales Harvested	543,964
Yield (lbs/acre)	925
Total bales Lost to Insects	18,479
Percent Yield Loss	2.56%
Yield w/o Insects (lbs/acre)	949
Ave. # Spray Applications	7.480
Yield loss to all factors	177,117
% Yield loss to all factors	24.56%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$22,224,765	\$78.74
At Planting Costs	\$2,413,434	\$8.55
Scouting costs	\$2,053,536	\$7.28
Eradication costs	\$1,129,092	\$4.00
Transgenic cotton	\$5,950,315	\$21.08
Total Costs	\$33,771,142	\$119.64
Yield Lost to insects	\$5,765,511	\$20.43
Total Losses + Costs	\$39,536,652	\$140.07