

Table 9a

Arkansas Southeast

Cotton Insect Losses 2008

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Boll Weevil	14,000	0	0.00	0.000	\$0.00	0.000%	0
Bollworm/Budworm	280,000	266,000	1.00	0.950	\$7.03	1.500%	11,375
Pink Bollworm	0	0	0.00	0.000	\$0.00	0.000%	0
Cotton Fleahopper	182,000	0	0.00	0.000	\$0.00	0.065%	493
Lygus	280,000	252,000	2.50	2.250	\$15.75	2.000%	15,167
Cotton Leaf Perforator	0	0	0.00	0.000	\$0.00	0.000%	0
Spider Mites	112,000	28,000	1.00	0.100	\$1.20	0.140%	1,062
Thrips	280,000	140,000	1.00	0.500	\$1.50	0.400%	3,033
Beet Armyworm	28,000	0	0.00	0.000	\$0.00	0.000%	0
Fall Armyworm	140,000	28,000	1.00	0.100	\$0.80	0.250%	1,896
European Cornborer	0	0	0.00	0.000	\$0.00	0.000%	0
Stink Bugs	280,000	140,000	1.00	0.500	\$4.00	1.100%	8,342
Grasshoppers	84,000	1,400	1.00	0.005	\$0.03	0.000%	0
Saltmarsh Caterpillars	84,000	0	0.00	0.000	\$0.00	0.000%	0
Aphids	280,000	14,000	1.00	0.050	\$0.40	0.050%	379
Banded Winged Whitefly	28,000	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	98,000	0	0.00	0.000	\$0.00	0.000%	0
Southern Armyworms	0	0	0.00	0.000	\$0.00	0.000%	0
Cutworms	70,000	14,000	1.00	0.050	\$0.13	0.028%	209
Clouded Plant bugs	56,000	0	0.00	0.000	\$0.00	0.000%	0
Other Insects	0	0	0.00	0.000	\$0.00	0.000%	0

Yield & Management Results	
Total Acres	280000
Total bales Harvested	495833
Yield (lbs/acre)	850
Total bales Lost to Insects	41955
Percent Yield Loss	5.53%
Yield w/o Insects (lbs/acre)	900
Ave. # Spray Applications	4.505
Yield loss to all factors	212333
% Yield loss to all factors	28.03%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$8,633,800	\$30.84
At Planting Costs	\$2,926,000	\$10.45
Scouting costs	\$2,444,400	\$8.73
Eradication costs	\$3,360,000	\$12.00
Transgenic cotton	\$6,753,180	\$24.12
Total Costs	\$24,117,380	\$86.13
Yield Lost to insects	\$10,471,916	\$37.40
Total Losses + Costs	\$34,589,296	\$123.53