

Table 9b

Arkansas Northeast

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	360,000	75,600	1.50	0.315	\$2.33	1.260%	11,317
Pink Bollworm	0	0	0.00	0.000	\$0.00	0.000%	0
Cotton Fleahopper	180,000	36,000	1.00	0.100	\$0.65	0.250%	2,246
Lygus	360,000	288,000	2.00	1.600	\$10.40	1.000%	8,982
Cotton Leaf Perforator	0	0	0.00	0.000	\$0.00	0.000%	0
Spider Mites	252,000	108,000	1.50	0.450	\$5.40	0.350%	3,144
Thrips	360,000	216,000	1.00	0.600	\$1.80	0.500%	4,491
Beet Armyworm	72,000	3,600	1.00	0.010	\$0.08	0.000%	0
Fall Armyworm	144,000	7,200	1.00	0.020	\$0.16	0.060%	539
European Cornborer	0	0	0.00	0.000	\$0.00	0.000%	0
Stink Bugs	360,000	108,000	1.00	0.300	\$2.40	0.600%	5,389
Grasshoppers	108,000	0	0.00	0.000	\$0.00	0.000%	0
Saltmarsh Caterpillars	108,000	0	0.00	0.000	\$0.00	0.000%	0
Aphids	252,000	3,600	1.00	0.010	\$0.07	0.000%	0
Banded Winged Whitefly	54,000	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	216,000	0	0.00	0.000	\$0.00	0.000%	0
Southern Armyworms	0	0	0.00	0.000	\$0.00	0.000%	0
Cutworms	90,000	36,000	1.00	0.100	\$0.50	0.025%	225
Clouded Plant bugs	216,000	108,000	1.00	0.300	\$1.95	0.450%	4,042
Other Insects	0	0	0.00	0.000	\$0.00	0.000%	0

Yield & Management Results	
Total Acres	360000
Total bales Harvested	750000
Yield (lbs/acre)	1000
Total bales Lost to Insects	40374
Percent Yield Loss	4.50%
Yield w/o Insects (lbs/acre)	1047
Ave. # Spray Applications	3.805
Yield loss to all factors	148204
% Yield loss to all factors	16.50%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$9,266,760	\$27.92
At Planting Costs	\$3,366,000	\$9.83
Scouting costs	\$2,736,000	\$8.09
Eradication costs	\$4,680,000	\$12.56
Transgenic cotton	\$9,828,000	\$25.91
Total Costs	\$29,876,760	\$84.31
Yield Lost to insects	\$10,077,430	\$32.11
Total Losses + Costs	\$39,954,190	\$116.42