

Table 8a

Arizona Bt

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	25,718	0	0.00	0.000	\$0.00	0.004%	21
Pink Bollworm	7,356	0	0.00	0.000	\$0.00	0.000%	0
Cotton Fleahopper	97,190	8,033	0.54	0.031	\$0.50	0.025%	122
Lygus	120,447	80,929	1.29	0.755	\$16.06	2.146%	10,575
Cotton Leaf Perforator	760	0	0.00	0.000	\$0.00	0.000%	0
Spider Mites	16,081	9,098	0.78	0.052	\$1.23	0.011%	52
Thrips	138,270	18,957	0.87	0.119	\$1.71	0.272%	1,341
Beet Armyworm	27,654	1,217	0.25	0.002	\$0.04	0.000%	1
Fall Armyworm	8,269	1,217	0.25	0.002	\$0.03	0.000%	0
European Cornborer	0	0	0.00	0.000	\$0.00	0.000%	0
Stink Bugs	60,078	5,088	0.34	0.013	\$0.28	0.043%	214
Grasshoppers	11,877	0	0.00	0.000	\$0.00	0.000%	0
Saltmarsh Caterpillars	12,016	1,009	1.00	0.007	\$0.19	0.000%	2
Aphids	37,886	2,517	0.50	0.009	\$0.16	0.004%	18
Banded Winged Whitefly	28,345	0	0.00	0.000	\$0.00	0.000%	0
Silverleaf Whitefly (Bemesia)	108,708	83,059	1.06	0.634	\$21.11	0.445%	2,191
Loopers	16,440	1,217	0.25	0.002	\$0.04	0.000%	1
Southern Armyworms	0	0	0.00	0.000	\$0.00	0.000%	0
Cutworms	0	0	0.00	0.000	\$0.00	0.000%	0
Clouded Plant bugs	0	0	0.00	0.000	\$0.00	0.000%	0
Other Insects	27,654	2,765	0.80	0.016	\$0.24	0.000%	0

Yield & Management Results	
Total Acres	138270
Total bales Harvested	424892.2
Yield (lbs/acre)	1475
Total bales Lost to Insects	14538
Percent Yield Loss	2.950%
Yield w/o Insects (lbs/acre)	151983.0%
Ave. # Spray Applications	1.642
Yield loss to all factors	67976
% Yield loss to all factors	13.8%

Economic Results		
	Total	Per Acre
Foliar Insecticides - costs	\$5,751,370	\$41.60
At Planting Costs	\$111,312	\$0.81
Scouting costs	\$1,463,759	\$10.59
Eradication costs	\$1,430,259	\$10.34
Transgenic cotton	\$4,644,178	\$33.59
Total Costs	\$13,400,879	\$96.92
Yield Lost to insects	\$4,535,898	\$32.80
Total Losses + Costs	\$17,936,776	\$129.72