

Table 10a

Arizona Bt

Cotton Insect Losses 2014

Pest	acres infested	acres treated	Arizona Bt	#apps/ tot acres	cost/ acre	%red	Bales lost
			#apps/ acre trtd				
Bollworm/Budworm	9,126	0	0	0.00	\$0.00	0.004%	24
Beet Armyworm	5,140	0	0	0.00	\$0.00	0.000%	0
Fall Armyworm	2,487	0	0	0.00	\$0.00	0.000%	0
Loopers	5,814	0	0	0.00	\$0.00	0.000%	0
Cutworms	1,663	0	0	0.00	\$0.00	0.000%	0
Saltmarsh Caterpillar	7,657	0	0	0.00	\$0.00	0.000%	0
Cotton Leafperforater	0	0	0	0.00	\$0.00	0.000%	0
Cotton Fleahopper	83,584	14,950	1	0.06	\$0.47	0.002%	11
Lygus	148,604	121,285	2	1.45	\$31.59	4.363%	27,264
Stink Bugs	76,346	4,242	1	0.02	\$0.30	0.198%	1,240
Clouded Plant bugs	0	0	0	0.00	\$0.00	0.000%	0
Brown Stink bug	97,837	9,580	1	0.08	\$1.48	0.552%	3,452
Bagrada Bug	1,029	0	0	0.00	\$0.00	0.000%	0
Leaf-footed Bugs	0	0	0	0.00	\$0.00	0.000%	0
Spider Mites	65,845	31,765	1	0.22	\$0.00	0.249%	1,557
Thrips	140,519	15,108	1	0.13	\$4.71	0.230%	1,434
Aphids	20,753	58	1	0.00	\$1.61	0.000%	2
Grasshoppers	21,425	0	0	0.00	\$0.00	0.000%	0
Banded Winged Whitefly	33,337	3,154	1	0.01	\$0.00	0.000%	0
Silverleaf Whitefly (Bemisia)	125,527	83,290	1	0.72	\$0.32	0.672%	4,197
Darkling Beetle	14,701	83	0	0.00	\$0.00	0.045%	284
Pale-striped Flea Beetle	60,756	3,320	0	0.00	\$0.00	0.000%	1
Green June Beetle	166	0	0	0.00	\$0.07	0.000%	0
				2.71	\$0.00	6.316%	39,465

Yield & Management Results	
Total Acres	149,849
Total bales Harvested	501,683
yield (lbs/acre)	1,607
Total bales Lost to Insects	39,465
Percent Yield Loss	6.32%
Yield w/o Insects (lbs/ac)	1,715
Ave. # Spray Applications	2.71
Bales lost all factors	123,200
% yield loss all factors	19.72%

Economic Results	Total	Per Acre	
Foliar Insecticides Costs	\$9,081,148	\$60.60	
At Planting Costs	\$505,591	\$3.37	
In-furrow costs	\$25,400	\$0.17	
Scouting costs	\$1,884,850	\$12.58	
Eradication costs	\$1,006,986	\$6.72	
Transgenic cotton	\$4,520,949	\$30.17	
Total Costs	\$17,024,925	\$113.61	
Yield Lost to insects	\$14,018,135	\$93.55	
Total Losses + Costs	\$31,043,060	\$207.16	
PBE	\$5.50	BWE	\$1.22