

Table 10a

Arizona Bt

Cotton Insect losses 2011

Pest	Acres Infested	acres treated	#apps/ acre trtd	#apps/ tot		%red	Bales lost
				acres	cost/ acre		
Boll Weevil	0	0	0.000	0.000	\$0.00	0.00%	0
Bollworm/Budworm	37,719	0	0.000	0.000	\$0.00	0.00%	24
Pink Bollworm	0	0	0.000	0.000	\$0.00	0.00%	0
Cotton Fleahopper	168,562	4,557	0.500	0.009	\$0.08	0.04%	428
Lygus	238,889	176,024	1.000	0.700	\$15.21	1.90%	18,907
Cotton Leaf Perforator	124	0	0.000	0.000	\$0.00	0.00%	0
Spider Mites	116,879	50,293	1.000	0.200	\$4.58	0.60%	5,941
Thrips	225,520	34,282	0.500	0.068	\$0.99	0.13%	1,333
Beet Armyworm	12,679	0	0.000	0.000	\$0.00	0.00%	0
Fall Armyworm	4,361	0	0.000	0.000	\$0.00	0.00%	0
European Cornborer	0	0	0.000	0.000	\$0.00	0.00%	0
Stink Bugs	109,773	19,731	0.700	0.055	\$1.12	0.15%	1,467
Grasshoppers	2,976	0	0.000	0.000	\$0.00	0.00%	0
Saltmarsh Caterpillars	31,507	430	1.000	0.002	\$0.03	0.00%	17
Aphids	30,816	1,182	1.000	0.005	\$0.12	0.00%	3
Banded Winged Whitefly	48,521	0	0.000	0.000	\$0.00	0.00%	0
Silverleaf Whitefly (Bemesia)	224,058	150,878	1.000	0.600	\$17.46	0.89%	8,867
Loopers	0	0	0.000	0.000	\$0.00	0.00%	0
Southern Armyworms	0	0	0.000	0.000	\$0.00	0.00%	0
Cutworms	0	0	0.000	0.000	\$0.00	0.00%	0
Clouded Plant bugs	0	0	0.000	0.000	\$0.00	0.00%	0
Darkling Beetles	29,371	1,290	0.500	0.003	\$0.01	0.00%	2
Bagrada bug	172	0	0.000	0.000	\$0.00	0.00%	0
Bean thrips	3,628	0	0.000	0.000	\$0.00	0.00%	0
Mealy bugs	75	75	1.000	0.000	\$0.01	0.00%	0
Pale-sided Flea Beetles	77,237	1,917	0.500	0.004	\$0.05	0.01%	92
				1.645	\$39.66	3.73%	37080

**Yield & Management Results**

Total Acres	251,463
Total bales Harvested	806,776
Yield (lbs/acre)	1,540
Total bales Lost to Insects	37,080
Percent Yield Loss	3.73%
Yield w/o Insects (lbs/ac)	1,600
Ave. # Spray Applications	1.65
yield loss to all factors	188,319
% yield loss all factors	18.9%

**Economic Results**

	Total	Per Acre
Foliar Insecticides Costs	\$9,973,108	\$39.66
At Planting Costs	\$577,483	\$2.30
In-furrow costs	\$133,976	\$0.53
Scouting costs	\$2,723,556	\$10.83
Eradication costs	\$2,502,053	\$9.95
Transgenic cotton	\$8,426,289	\$33.51
Total Costs	\$24,336,464	\$96.78
Yield Lost to insects	\$16,730,450	\$66.53
Total Losses + Costs	\$41,066,914	\$163.31

PBW erad

\$7.86

BW erad

\$2.09