

Table 10a

## Arizona Bt

## Cotton Insect Losses – 2013

Pest	Acres Infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Boll Weevil	0	0	0.000	0.000	\$0.00	0.000%	0
Bollworm/Budworm	15,014	0	0.000	0.000	\$0.00	0.000%	0
Pink Bollworm	0	0	0.000	0.000	\$0.00	0.000%	0
Cotton Fleahopper	107,533	5,730	1.000	0.035	\$0.34	0.085%	566
Lygus	157,948	113,701	2.080	1.457	\$33.15	2.277%	15,194
Cotton Leaf Perforator	0	0	0.000	0.000	\$0.00	0.000%	0
Spider Mites	95,116	33,339	1.050	0.216	\$4.42	0.428%	2,854
Thrips	150,238	14,008	0.860	0.074	\$1.37	0.153%	1,019
Beet Armyworm	17,092	0	0.000	0.000	\$0.00	0.000%	0
Fall Armyworm	3,685	0	0.000	0.000	\$0.00	0.000%	0
Brown Stink Bug	109,935	64,065	1.890	0.746	\$15.13	1.239%	8,271
Stink Bugs	79,972	20,257	1.000	0.125	\$2.70	0.325%	2,170
Grasshoppers	8,035	0	0.000	0.000	\$0.00	0.000%	0
Saltmarsh Caterpillars	7,548	0	0.000	0.000	\$0.00	0.000%	0
Aphids	21,604	4,886	1.400	0.042	\$0.52	0.001%	4
Banded Winged Whitefly	33,989	0	0.000	0.000	\$0.00	0.000%	0
Silverleaf Whitefly (Bemisia)	133,650	68,984	1.690	0.718	\$19.72	1.070%	7,143
Loopers	6,282	0	0.000	0.000	\$0.00	0.000%	0
Other	0	0	0.000	0.000	\$0.00	0.000%	0
Cutworms	0	0	0.000	0.000	\$0.00	0.000%	0
Clouded Plant bugs	0	0	0.000	0.000	\$0.00	0.000%	0
Darkling Beetles	20,241	114	1.000	0.001	\$0.01	0.001%	10
Bagrada bug	2,061	0	0.000	0.000	\$0.00	0.000%	0
Other	0	0	0.000	0.000	\$0.00	0.000%	0
Mealy bugs	487	0	0.000	0.000	\$0.00	0.000%	0
Pale-sided Flea Beetles	60,170	243	1.000	0.002	\$0.02	0.000%	0
				3.416	\$77.36	5.579%	37231

**Yield & Management Results**

Total Acres	162,314
Total bales Harvested	515,612
Yield (lbs/acre)	1,525
Total bales Lost to Insects	37,231
Percent Yield Loss	5.58%
Yield w/o Insects (lbs/ac)	1,615
Ave. # Spray Applications	3.42
yield loss to all factors	151,669
% yield loss all factors	22.7%

All data in this Table are preliminary

**Economic Results**

	Total	Per Acre	
Foliar Insecticides Costs	\$12,557,428	\$77.36	
At Planting Costs	\$169,651	\$1.05	
In-furrow costs	\$71,418	\$0.44	
Scouting costs	\$2,138,653	\$13.18	
Eradication costs	\$1,090,752	\$6.72	
Transgenic cotton	\$5,449,540	\$33.57	
Total Costs	\$21,477,443	\$132.32	
Yield Lost to insects	\$14,117,840	\$86.98	
Total Losses + Costs	\$35,595,283	\$219.30	
PBW erad	\$5.50	BW erad	\$1.22

Official Arizona Losses may be seen on the Arizona WEB <http://cals.arizona.edu/crops/insects/cil/cil.html>