

Table 27

## Midsouth Area States Summary

Cotton Insect Losses 2016

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Bollworm/Budworm	1,311,200	1,036,435	1	0.81	\$9.72	1.560%	84,402
Beet Armyworm	62,450	528	0	0.00	\$0.00	0.000%	16
Fall Armyworm	520,471	138,570	1	0.07	\$0.64	0.419%	21,604
Loopers	64,500	0	0	0.00	\$0.00	0.000%	0
Cutworms	251,510	492,936	1	0.34	\$1.47	0.001%	45
Cotton Leafperforator	0	0	0	0.00	\$0.00	0.000%	0
Saltmarsh Caterpillar	20,423	0	0	0.00	\$0.00	0.000%	0
Verde Plant Bugs	0	0	0	0.00	\$0.00	0.000%	0
Cotton Fleahopper	390,500	17,850	0	0.00	\$0.00	0.000%	18
Lygus	1,457,000	1,420,500	4	3.71	\$34.45	4.026%	216,933
Stink Bugs	935,250	425,000	1	0.29	\$2.16	0.771%	38,829
Clouded Plant bugs	343,780	103,079	1	0.04	\$0.27	0.153%	8,037
Brown Stink bug	424,000	75,325	0	0.00	\$0.01	0.033%	1,803
Bagrada Bugs	0	0	0	0.00	\$0.00	0.000%	0
Leaf footed bugs	8,326	0	0	0.00	\$0.00	0.000%	0
Spider Mites	762,326	343,350	1	0.38	\$3.98	0.526%	29,006
Thrips	1,182,500	680,320	1	0.48	\$3.29	1.047%	52,236
Aphids	823,450	505,550	1	0.35	\$2.13	0.162%	9,192
Grasshoppers	183,900	15,064	0	0.00	\$0.03	0.000%	0
Banded Winged Whitefly	137,215	5,621	1	0.00	\$0.04	0.043%	2,069
Silverleaf Whitefly	0	0	0	0.00	\$0.00	0.000%	0
Darkling Beetle	0	0	0	0.00	\$0.00	0.000%	0
Pale-striped Flea Beetles	0	0	0	0.00	\$0.00	0.000%	0
Mealybugs	0	0	0	1.56	\$0.00	0.000%	0
Crickets	0	0	0	0.00	\$0.00	0.000%	0
Boll Weevils	0	0	0	0.00	\$0.00	0.000%	0
				8.03	\$58.18	8.741%	464,190

**Yield & Management Results**

Total Acres	1,457,000
Total bales Harvested	3,420,405
yield (lbs/acre)	1,127
Total bales Lost to Insects	464,190
Percent Yield Loss	8.74%
Yield w/o Insects (lbs/ac)	1,235
Ave. # Spray Applications	8.03
Bales lost all factors	1,816,802
% yield loss all factors	34.16%

**Economic Results**

	Total	Per Acre
<b>Foliar Insecticides Costs</b>	\$84,761,631	\$58.18
<b>At Planting Costs</b>	\$17,027,625	\$11.69
<b>In-furrow costs</b>	\$2,047,080	\$1.40
<b>Scouting costs</b>	\$10,962,652	\$7.52
<b>Eradication costs</b>	\$5,772,500	\$3.96
<b>Transgenic cotton</b>	\$27,932,707	\$19.17
<b>Total Costs</b>	\$148,504,195	\$101.92
<b>Yield Lost to insects</b>	\$153,667,932	\$105.47
<b>Total Losses + Costs</b>	\$302,172,126	\$207.39