

Table 17a

## Mississippi Delta

## Cotton Insect Losses 2016

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Bollworm/Budworm	292,500	227,500	2	1.26	\$17.64	1.350%	17,499
Beet Armyworm	3,250	325	1	0.00	\$0.01	0.001%	13
Fall Armyworm	195,000	16,250	1	0.05	\$0.53	0.600%	7,777
Loopers	6,500	0	1	0.00	\$0.00	0.000%	0
Cutworms	97,500	32,500	1	0.10	\$0.60	0.003%	39
Cotton Leafperforator	0	0	0	0.00	\$0.00	0.000%	0
Saltmarsh Caterpillar	16	0	0	0.00	\$0.00	0.000%	0
Verde Plant Bugs	0	0	0	0.00	\$0.00	0.000%	0
Cotton Fleahopper	32,500	3,250	0	0.00	\$0.00	0.001%	13
Lygus	325,000	318,500	5	4.41	\$48.51	5.000%	64,810
Stink Bugs	65,000	16,250	1	0.05	\$0.45	0.200%	2,592
Clouded Plant bugs	16,250	1,625	1	0.01	\$0.05	0.275%	3,565
Brown Stink bug	32,500	1,625	1	0.01	\$0.05	0.100%	1,296
Bagrada Bugs	0	0	0	0.00	\$0.00	0.000%	0
Leaf footed bugs	3,250	0	0	0.00	\$0.00	0.000%	0
Spider Mites	260,000	195,000	2	1.20	\$14.40	1.800%	23,332
Thrips	325,000	308,750	1	0.95	\$8.55	1.000%	12,962
Aphids	178,750	97,500	1	0.30	\$3.00	0.275%	3,565
Grasshoppers	16,250	0	0	0.00	\$0.00	0.000%	0
Banded Winged Whitefly	32,500	325	1	0.00	\$0.02	0.100%	1,296
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	0.00	\$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
				8.33	\$93.79	10.705%	138,758

**Yield & Management Results**

Total Acres	325,000
Total bales Harvested	846,354
yield (lbs/acre)	1,250
Total bales Lost to Insects	138,758
Percent Yield Loss	10.71%
Yield w/o Insects (lbs/ac)	1,400
Ave. # Spray Applications	8.33
Bales lost all factors	449,846
% yield loss all factors	34.71%

**Economic Results**

	Total	Per Acre
<b>Foliar Insecticides Costs</b>	\$30,483,050	\$93.79
<b>At Planting Costs</b>	\$3,056,625	\$9.41
<b>In-furrow costs</b>	\$117,000	\$0.36
<b>Scouting costs</b>	\$2,574,000	\$7.92
<b>Eradication costs</b>	\$1,300,000	\$4.00
<b>Transgenic cotton</b>	\$8,854,755	\$27.25
<b>Total Costs</b>	\$46,385,430	\$142.72
<b>Yield Lost to insects</b>	\$48,620,898	\$149.60
<b>Total Losses + Costs</b>	\$95,006,328	\$292.33