

Table 17b

## Mississippi Hills

## Cotton Insect Losses 2016

Pest	acres infested	acres treated	Mississippi Hills		cost/ acre	%red	Bales lost
			#apps/ acre trtd	#apps/ tot acres			
Bollworm/Budworm	70,000	30,000	1	0.36	\$5.04	1.050%	3,379
Beet Armyworm	1,000	100	1	0.00	\$0.01	0.001%	3
Fall Armyworm	50,000	5,000	1	0.05	\$0.53	0.500%	1,609
Loopers	1,000	0	1	0.00	\$0.00	0.000%	0
Cutworms	20,000	10,000	1	0.10	\$0.60	0.002%	6
Cotton Leafperforator	0	0	0	0.00	\$0.00	0.000%	0
Saltmarsh Caterpillar	0	0	0	0.00	\$0.00	0.000%	0
Verde Plant Bugs	0	0	0	0.00	\$0.00	0.000%	0
Cotton Fleahopper	15,000	1,000	0	0.00	\$0.00	0.002%	5
Lygus	100,000	70,000	2	1.40	\$15.40	5.000%	16,090
Stink Bugs	25,000	7,000	1	0.07	\$0.63	0.250%	804
Clouded Plant bugs	10,000	500	1	0.01	\$0.05	0.550%	1,770
Brown Stink bug	15,000	500	1	0.01	\$0.05	0.150%	483
Bagrada Bugs	0	0	0	0.00	\$0.00	0.000%	0
Leaf footed bugs	1,000	0	0	0.00	\$0.00	0.000%	0
Spider Mites	50,000	50,000	1	0.65	\$7.80	1.125%	3,620
Thrips	100,000	65,000	1	0.65	\$5.85	1.000%	3,218
Aphids	60,000	10,000	1	0.10	\$1.00	0.300%	965
Grasshoppers	7,000	0	0	0.00	\$0.00	0.000%	0
Banded Winged Whitefly	5,000	0	0	0.00	\$0.00	0.050%	161
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
				3.39	\$36.95	9.980%	32,114

Yield & Management Results	
Total Acres	100,000
Total bales Harvested	228,542
yield (lbs/acre)	1,097
Total bales Lost to Insects	32,114
Percent Yield Loss	9.98%
Yield w/o Insects (lbs/ac)	1,219
Ave. # Spray Applications	3.39
Bales lost all factors	93,255
% yield loss all factors	28.98%

Economic Results		Total	Per Acre
Foliar Insecticides Costs		\$3,694,900	\$36.95
At Planting Costs		\$940,500	\$9.41
In-furrow costs		\$36,000	\$0.36
Scouting costs		\$693,000	\$6.93
Eradication costs		\$400,000	\$4.00
Transgenic cotton		\$2,586,080	\$25.86
Total Costs		\$8,350,480	\$83.50
Yield Lost to insects		\$11,252,643	\$112.53
Total Losses + Costs		\$19,603,123	\$196.03