

Table 18

Missouri Summary

Cotton Insect losses 2016

Pest	acres infested	acres treated	#apps/ acre	#apps/ tot	cost/ acre	%red	Bales lost
			trtd	acres			
Bollworm/Budworm	285,000	285,000	1	0.50	\$5.50	2.500%	24,707
Beet Armyworm	14,250	29	0	0.00	\$0.00	0.000%	0
Fall Armyworm	128,250	85,500	1	0.15	\$1.65	1.125%	11,118
Loopers	57,000	0	0	0.00	\$0.00	0.000%	0
Cutworms	5,700	285,000	1	1.00	\$4.00	0.000%	0
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	0	0	0	0.00	\$0.00	0.000%	0
Lygus	285,000	285,000	4	4.00	\$32.00	5.000%	49,414
Stink Bugs	285,000	285,000	1	1.00	\$8.00	3.000%	29,648
Clouded Plant bugs	57,000	85,500	1	0.15	\$1.20	0.200%	1,977
Brown Stink bug	0	0	0	0.00	\$0.00	0.000%	0
Bagrada Bugs	0	0	0	0.00	\$0.00	0.000%	0
Leaf footed bugs	0	0	0	0.00	\$0.00	0.000%	0
Spider Mites	285,000	57,000	1	0.20	\$1.60	0.000%	0
Thrips	285,000	57,000	1	0.20	\$1.00	3.000%	29,648
Aphids	22,800	22,800	1	0.08	\$0.64	0.080%	791
Grasshoppers	14,250	14,250	1	0.03	\$0.20	0.000%	0
Banded Winged Whitefly	0	0	0	0.00	\$0.00	0.000%	0
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
				7.31	\$55.79	14.905%	147,303

Yield & Management Results	
Total Acres	285,000
Total bales Harvested	712,500
yield (lbs/acre)	1,200
Total bales Lost to Insects	147,303
Percent Yield Loss	14.91%
Yield w/o Insects (lbs/ac)	1,410
Ave. # Spray Applications	7.31
Bales lost all factors	275,779
% yield loss all factors	27.91%

Economic Results		Total	Per Acre
Foliar Insecticides Costs		\$15,900,150	\$55.79
At Planting Costs		\$3,990,000	\$14.00
In-furrow costs		\$1,869,600	\$6.56
Scouting costs		\$1,960,800	\$6.88
Eradication costs		\$1,425,000	\$5.00
Transgenic cotton		\$5,494,823	\$19.28
Total Costs		\$30,640,373	\$107.51
Yield Lost to insects		\$49,493,821	\$173.66
Total Losses + Costs		\$80,134,194	\$281.17