

Table 18

Missouri

Cotton Insect Losses 2009

Pest	acres infested	acres treated	#apps/ acre trtd	#apps/ tot acres	cost/ acre	%red	Bales lost
Boll Weevil	0	0	0.0	0.00	\$0.00	0.00%	0
Bollworm/Budworm	143,000	42,350	1.0	0.15	\$1.03	0.52%	3,411
Pink Bollworm	0	0	0.0	0.00	\$0.00	0.00%	0
Cotton Fleahopper	0	0	0.0	0.00	\$0.00	0.00%	0
Lygus	204,050	204,050	1.2	0.89	\$5.64	3.71%	24,334
Cotton Leaf Perforator	0	0	0.0	0.00	\$0.00	0.00%	0
Spider Mites	131,450	96,800	1.0	0.35	\$3.43	0.48%	3,135
Thrips	140,525	140,525	1.0	0.51	\$2.30	1.28%	8,379
Beet Armyworm	0	0	0.0	0.00	\$0.00	0.00%	0
Fall Armyworm	70,125	9,350	1.0	0.03	\$0.37	0.00%	0
European Cornborer	0	0	0.0	0.00	\$0.00	0.00%	0
Stink Bugs	22,000	11,825	1.0	0.04	\$0.22	0.12%	787
Grasshoppers	0	0	0.0	0.00	\$0.00	0.00%	0
Saltmarsh Caterpillars	0	0	0.0	0.00	\$0.00	0.00%	0
Aphids	11,000	0	0.0	0.00	\$0.00	0.00%	0
Banded Winged Whitefly	0	0	0.0	0.00	\$0.00	0.00%	0
Silverleaf Whitefly (Bemesia)	0	0	0.0	0.00	\$0.00	0.00%	0
Loopers	3,850	0	0.0	0.00	\$0.00	0.00%	0
Southern Armyworms	0	0	0.0	0.00	\$0.00	0.00%	0
Cutworms	3,850	0	0.0	0.00	\$0.00	0.00%	0
Clouded Plant bugs	0	0	0.0	0.00	\$0.00	0.00%	0
Other Insects	0	0	0.0	0.00	\$0.00	0.00%	0
				1.98	\$12.98	6.11%	40045

Yield & Management Results

Total Acres	275,000
Total bales Harvested	543,698
Yield (lbs/acre)	949
Total bales Lost to Insects	40,045
Percent Yield Loss	6.11%
Yield w/o Insects (lbs/acre)	1,011
Ave. # Spray Applications	1.984
Yield loss to all factors	112,194
% Yield loss to all factors	17.1%

Economic Results

	Total	Per Acre
Foliar Insecticides - costs	\$3,570,576	\$12.98
At Planting Costs	\$3,932,500	\$14.30
Scouting costs	\$2,134,000	\$7.76
Eradication costs	\$1,375,000	\$5.00
Transgenic cotton	\$8,013,830	\$29.14
Total Costs	\$19,025,906	\$69.19
Yield Lost to insects	\$12,494,181	\$45.43
Total Losses + Costs	\$31,520,086	\$114.62