

Table 17

Mississippi Summary

Cotton Insect Losses 2016

| Pest | acres infested | acres treated | #apps/ acre | #apps/ tot | cost/ acre | %red | Bales lost |
|---------------------------|----------------|---------------|-------------|------------|------------|---------|------------|
| | | | trtd | acres | | | |
| Bollworm/Budworm | 362,500 | 257,500 | 2 | 1.01 | \$14.07 | 1.279% | 20,636 |
| Beet Armyworm | 4,250 | 425 | 1 | 0.00 | \$0.01 | 0.001% | 16 |
| Fall Armyworm | 245,000 | 21,250 | 1 | 0.05 | \$0.53 | 0.576% | 9,298 |
| Loopers | 7,500 | 0 | 1 | 0.00 | \$0.00 | 0.000% | 0 |
| Cutworms | 117,500 | 42,500 | 1 | 0.10 | \$0.60 | 0.003% | 45 |
| 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 | 47,500 | 4,250 | 0 | 0.00 | \$0.00 | 0.001% | 18 |
| Lygus | 425,000 | 388,500 | 4 | 3.58 | \$39.33 | 5.000% | 80,647 |
| Stink Bugs | 90,000 | 23,250 | 1 | 0.05 | \$0.49 | 0.212% | 3,416 |
| Clouded Plant bugs | 26,250 | 2,125 | 1 | 0.01 | \$0.05 | 0.340% | 5,479 |
| Brown Stink bug | 47,500 | 2,125 | 1 | 0.01 | \$0.05 | 0.112% | 1,803 |
| Bagrada Bugs | 0 | 0 | 0 | 0.00 | \$0.00 | 0.000% | 0 |
| Leaf footed bugs | 4,250 | 0 | 0 | 0.00 | \$0.00 | 0.000% | 0 |
| Spider Mites | 310,000 | 245,000 | 2 | 1.06 | \$12.70 | 1.641% | 26,471 |
| Thrips | 425,000 | 373,750 | 1 | 0.88 | \$7.91 | 1.000% | 16,129 |
| Aphids | 238,750 | 107,500 | 1 | 0.25 | \$2.53 | 0.281% | 4,530 |
| Grasshoppers | 23,250 | 0 | 0 | 0.00 | \$0.00 | 0.000% | 0 |
| Banded Winged Whitefly | 37,500 | 325 | 1 | 0.00 | \$0.01 | 0.088% | 1,423 |
| 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 |
| | | | | 6.99 | \$78.27 | 10.534% | 169,911 |

| Yield & Management Results | |
|-----------------------------|-----------|
| Total Acres | 425,000 |
| Total bales Harvested | 1,074,896 |
| yield (lbs/acre) | 1,214 |
| Total bales Lost to Insects | 169,911 |
| Percent Yield Loss | 10.53% |
| Yield w/o Insects (lbs/ac) | 1,357 |
| Ave. # Spray Applications | 6.99 |
| Bales lost all factors | 538,040 |
| % yield loss all factors | 33.36% |

| Economic Results | | Total | Per Acre |
|---------------------------|--|---------------|----------|
| Foliar Insecticides Costs | | \$33,265,926 | \$78.27 |
| At Planting Costs | | \$3,997,125 | \$9.41 |
| In-furrow costs | | \$153,000 | \$0.36 |
| Scouting costs | | \$3,267,000 | \$7.69 |
| Eradication costs | | \$1,700,000 | \$4.00 |
| Transgenic cotton | | \$11,440,835 | \$26.92 |
| Total Costs | | \$53,823,886 | \$126.64 |
| Yield Lost to insects | | \$59,536,972 | \$140.09 |
| Total Losses + Costs | | \$113,360,858 | \$266.73 |