

Table 9a

North Alabama

Cotton Insect Losses 2016

| Pest                      | acres infested | acres treated | #apps/ acre<br>trtd | #apps/ tot acres | cost/ acre | %red   | Bales lost |
|---------------------------|----------------|---------------|---------------------|------------------|------------|--------|------------|
| Bollworm/Budworm          | 25,704         | 25,704        | 1                   | 0.25             | \$2.38     | 0.250% | 644        |
| Beet Armyworm             | 0              | 0             | 0                   | 0.00             | \$0.00     | 0.000% | 0          |
| Fall Armyworm             | 0              | 0             | 0                   | 0.00             | \$0.00     | 0.000% | 0          |
| Loopers                   | 0              | 0             | 0                   | 0.00             | \$0.00     | 0.000% | 0          |
| Cutworms                  | 1,028          | 103           | 1                   | 0.00             | \$0.01     | 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                     | 92,534         | 61,690        | 2                   | 1.20             | \$13.20    | 0.675% | 1,740      |
| Stink Bugs                | 77,112         | 1,028         | 1                   | 0.01             | \$0.09     | 0.075% | 193        |
| Clouded Plant bugs        | 0              | 0             | 0                   | 0.00             | \$0.00     | 0.000% | 0          |
| 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              | 25,704         | 1,028         | 1                   | 0.01             | \$0.12     | 0.025% | 64         |
| Thrips                    | 101,788        | 30,845        | 1                   | 0.30             | \$2.55     | 0.990% | 2,552      |
| Aphids                    | 56,549         | 1,028         | 1                   | 0.01             | \$0.07     | 0.000% | 0          |
| Grasshoppers              | 0              | 0             | 0                   | 0.00             | \$0.00     | 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          |
|                           |                |               |                     | 1.78             | \$18.40    | 2.015% | 5,194      |

| Yield & Management Results  |         |
|-----------------------------|---------|
| Total Acres                 | 102,816 |
| Total bales Harvested       | 192,780 |
| yield (lbs/acre)            | 900     |
| Total bales Lost to Insects | 5,194   |
| Percent Yield Loss          | 2.02%   |
| Yield w/o Insects (lbs/ac)  | 919     |
| Ave. # Spray Applications   | 1.78    |
| Bales lost all factors      | 64,999  |
| % yield loss all factors    | 25.22%  |

| Economic Results          |  | Total       | Per Acre |
|---------------------------|--|-------------|----------|
| Foliar Insecticides Costs |  | \$1,892,174 | \$18.40  |
| At Planting Costs         |  | \$439,847   | \$4.28   |
| In-furrow costs           |  | \$61,690    | \$0.60   |
| Scouting costs            |  | \$453,419   | \$4.41   |
| Eradication costs         |  | \$154,224   | \$1.50   |
| Transgenic cotton         |  | \$1,628,605 | \$15.84  |
| Total Costs               |  | \$4,629,959 | \$45.03  |
| Yield Lost to insects     |  | \$1,570,740 | \$15.28  |
| Total Losses + Costs      |  | \$6,200,699 | \$60.31  |