

Table 10

Arizona Summary

Cotton Insect Losses 2011

| Pest | Acres Infested | acres treated | #apps/ acre trtd | #apps/ tot | | cost/ acre | %red | Bales lost |
|-------------------------------|----------------|---------------|------------------|------------|--|------------|--------|------------|
| | | | | acres | | | | |
| Boll Weevil | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.00% | 0 |
| Bollworm/Budworm | 39,730 | 807 | 0.5 | 0.00 | | \$0.03 | 0.003% | 32 |
| Pink Bollworm | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Cotton Fleahopper | 170,332 | 4,557 | 0.5 | 0.01 | | \$0.08 | 0.042% | 428 |
| Lygus | 242,586 | 177,312 | 1.0 | 0.69 | | \$15.01 | 1.866% | 18,955 |
| Cotton Leaf Perforator | 124 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Spider Mites | 117,927 | 51,099 | 1.0 | 0.20 | | \$4.58 | 0.587% | 5,963 |
| Thrips | 230,662 | 34,282 | 0.5 | 0.07 | | \$0.97 | 0.131% | 1,333 |
| Beet Armyworm | 13,727 | 807 | 0.5 | 0.00 | | \$0.02 | 0.001% | 4 |
| Fall Armyworm | 4,602 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| European Cornborer | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Stink Bugs | 111,784 | 20,538 | 0.7 | 0.06 | | \$1.16 | 0.146% | 1,477 |
| Grasshoppers | 2,976 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Saltmarsh Caterpillars | 31,748 | 430 | 1.0 | 0.00 | | \$0.03 | 0.002% | 17 |
| Aphids | 31,780 | 1,182 | 1.0 | 0.00 | | \$0.11 | 0.000% | 3 |
| Banded Winged Whitefly | 48,762 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Silverleaf Whitefly (Bemesia) | 225,347 | 152,166 | 1.0 | 0.59 | | \$17.22 | 0.874% | 8,880 |
| Loopers | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Southern Armyworms | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Cutworms | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Clouded Plant bugs | 0 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Darkling Beetles | 29,612 | 1,290 | 0.5 | 0.00 | | \$0.01 | 0.000% | 2 |
| Bagrada bug | 172 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Bean thrips | 3,628 | 0 | 0.0 | 0.00 | | \$0.00 | 0.000% | 0 |
| Mealy bugs | 75 | 75 | 1.0 | 0.00 | | \$0.01 | 0.000% | 0 |
| Pale-sided Flea Beetle | 78,043 | 1,917 | 0.5 | 0.00 | | \$0.04 | 0.009% | 94 |
| | | | | 1.630 | | \$39.28 | 3.66% | 37187 |

| Yield & Management Results | |
|-----------------------------|---------|
| Total Acres | 256,845 |
| Total bales Harvested | 821,255 |
| Yield (lbs/acre) | 1,535 |
| Total bales Lost to Insects | 37,187 |
| Percent Yield Loss | 3.66% |
| Yield w/o Insects (lbs/ac) | 1,593 |
| Ave. # Spray Applications | 1.630 |
| yield loss to all factors | 191,232 |
| % yield loss all factors | 18.9% |

| Economic Results | Total | Per Acre | |
|---------------------------|--------------|----------|--------|
| Foliar Insecticides Costs | \$10,089,456 | \$39.28 | |
| At Planting Costs | \$580,887 | \$2.26 | |
| In-furrow costs | \$131,168 | \$0.51 | |
| Scouting costs | \$2,737,893 | \$10.66 | |
| Eradication costs | \$2,578,751 | \$10.04 | |
| Transgenic cotton | \$8,426,289 | \$32.81 | |
| Total Costs | \$24,544,445 | \$95.56 | |
| Yield Lost to insects | \$16,778,991 | \$63.33 | |
| Total Losses + Costs | \$41,323,436 | \$160.89 | |
| PBW | \$7.95 | BW | \$2.09 |

