

2006 Beltwide Cotton Conferences, San Antonio, Texas - January 3 - 6, 2006

UPDATE OF SOUTHEASTERN BOLL WEEVIL ERADICATION

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Abstract

Mississippi Eradication Program

The Mississippi program is divided into six areas:

Region 1A

There were 963 weevils captured, with 92.5% zero fields and 0.2 applications per acre in 2005.

Region 1B

There were five weevils captured with 99.8% zero fields and less than 0.1 applications per acre in 2005.

Region 2

There were five weevils captured with 99.6% zero fields and no applications.

Region 3

There were 8,289 weevils captured with 81.4% zero fields and 1.3 applications per acre. The bluff area of this region captured 7,121 of the 8,289 total weevils.

Region 4

There were 19 weevils captured with 99.1% zero fields and no applications.

Mississippi captured 17,482 weevils during 2004 and 9,281 during the 2005 season for a reduction of 46.91%. The weevils captured per acre was 0.0160 for 2004 and 0.0078 for 2005 for a reduction of 0.0082 weevils per acre.

The percent reduction in boll weevils captured for 1998 thru 2005 are as follows:

| | |
|-----------|--------|
| Region 1A | 99.85% |
| Region 1B | 99.99% |
| Region 2 | 99.99% |
| Region 3 | 99.66% |
| Region 4 | 99.99% |

Tennessee Eradication Program

The Tennessee Eradication Program has a total of 620,000 acres; 26,000 acres are in post eradication and 594,000 acres are in the active program. Most of the weevils in Tennessee are located in the five westernmost counties. In 2002 86% of the weevils captured in Tennessee were in the five western counties, 2003 was 99.4%, 2004 98.8% and in 2005 98.6%. The other counties are 1% or less of the total.

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The average number of weevils per trap are as follows:

Lake County:

2002 0.254
2005 0.016

Dyer County:

2002 0.237
2005 0.010

Lauderdale County:

2002 0.293
2005 0.046

Tipton County:

2002 0.591
2005 0.092

Shelby County:

2002 0.504
2005 0.325

Fayette County:

2002 0.002
2005 0.005

Missouri Eradication Program

Missouri had 445,250 acres of cotton in 2005; this is the most cotton we have had since the program started. This is a 14% increase from the 2004 season.

The total weevil captures for the last four years are as follows:

2002 1,485,733
2003 200,274
2004 284,999
2005 197,565

As we look at the percentage change for the last three years, 2003 had an 86.52% reduction, 2004 had a 42.30% increase (a very bad year) and in 2005 there was a 30.68% reduction. The total reduction for this time period was 86.70%.

The 2002 thru 2005 weevil captures per acre are as follows:

2002 3.812
2003 0.496
2004 0.729
2005 0.444

The changes in boll weevils captured per acre are as follows: 2003 86.99% reduction, 2004 46.95% increase and 2005 39.19% reduction, for a total reduction of 88.38%.

The percentage of zero fields for 2002 thru 2005 are as follows:

2002 1.29%
2003 15.70%
2004 17.11%
2005 21.64%

Review of Boll Weevils Captured in Post Eradication**Virginia**

1995 last weevil captured

North Carolina

1987 – 1999 2708 weevils captured in twenty one counties
 2001 - 175 weevils captured in one county
 2002 - 16 weevils captured in two counties
 2005 - 1 weevil captured

South Carolina

1995 – 1999 23,902 weevils captured in two counties
 2001 1 weevil captured
 2002 0 weevils captured

Georgia

2000 – 2002 102 weevils captured in eleven counties
 2003 0 weevils
 2004 2 weevils in two counties captured (inconclusive)
 2005 0 weevils

Florida

2000 14 weevils captured in one county
 No weevils captured since 2000

Alabama

2000 1531 weevils captured in nineteen counties
 2001 434 weevils captured in six counties
 2002 476 weevils captured in nine counties
 2003 1 weevil captured
 No weevils since 2003

Central Tennessee

2000 962 weevils captured in three counties
 No weevils captured since 2000

Summary for Post Eradication

| | |
|-------------|--|
| 1987 – 1999 | 77,206 weevils captured in 54 counties |
| 2000 | 2610 weevils captured in 35 counties |
| 2001 | 179 weevils captured in 7 counties |
| 2002 | 492 weevils captured in 11 counties |
| 2003 | 1 weevil captured |
| 2004 | 2 weevils in 2 counties (inconclusive) |
| 2005 | 1 weevil captured |

We have not sprayed any cotton in post eradication since 2002.