

North Carolina Pest News

Departments of Entomology and Plant Pathology



Volume 27, Number 18,
August 10, 2012

In This Week's Issue . . .

CAUTION !

The information and recommendations in this newsletter are applicable to North Carolina and may not apply in other areas.

**Stephen J. Toth, Jr.,
Editor**

Dept. of Entomology,
North Carolina State
University, Box 7613,
Raleigh, NC 27695

(919) 513-8189 Phone
(919) 513-1114 Fax
steve_toth@ncsu.edu

FIELD AND FORAGE CROPS 1

- Stink Bug and Bollworm Update
- Other Cotton Insect Pests
- Kudzu Bug Update

INSECT TRAP DATA 3

- Light Trap Data from Anson, Stanly and Union Counties
- Light Trap Data from Bertie County
- Light Trap Data from Craven County
- Light Trap Data from Cumberland County
- Light Trap Data from Edgecombe County
- Light Trap Data from Edgecombe County – Upper Coastal Plains Research Station
- Light Trap Data from Lenoir County
- Light Trap Data from Northampton County
- Light Trap Data from Robeson County
- Light Trap Data from Scotland County
- Light Trap Data from Wayne County
- Light Trap Data from Wilson County

See current and archived issues of the *North Carolina Pest News* on the Internet at: http://ipm.ncsu.edu/current_ipm/pest_news.html

FIELD AND FORAGE CROPS

From: Jack Bacheler, Extension Entomologist

Stink Bug and Bollworm Update

Our variable insect levels and relative pest rankings continue on cotton. Additional untreated cotton fields reached threshold for stink bugs this past week, with probably more sprayed than unsprayed fields in North Carolina

Distributed in furtherance of the acts of Congress of May 8 and June 30, 1914. North Carolina State University and North Carolina A&T State University commit themselves to positive action to secure equal opportunity regardless of race, color, creed, national origin, religion, sex, age, or disability. In addition, the two Universities welcome all persons without regard to sexual orientation. North Carolina State University, North Carolina A&T State University, U.S. Department of Agriculture, and local governments cooperating.



Empowering People • Providing Solutions

now. Several consultants are reporting stink bug damage levels in the single digits. At the Sandhills Research Station, August 10, stink bug damage to quarter-sized bolls was 5% in the untreated plots. For some producers, this time marks the end of the protective weeks 3 to 5 of the bloom period for stink bug damage. Thresholds 20, 30 and 50% internal boll damage, respectively, are recommended for 6 weeks through 8 of the bloom period. This is a stage of cotton when bolls become less vulnerable to stink bug damage. Brown stink bugs still predominate in most areas.

Low bollworm moth counts from light traps continue to amaze me, as a number of traps are only in the single digits to the teens for two-day checks at a time in early to mid-August when these same traps were often in the high double digits to low hundreds in other years. Hopefully, this is translating into limited bollworm establishment so far in 2012, although pockets of high moth activity and subsequent egg lay always seem to materialize in localized areas.

Other Cotton Insect Pests

Although some areas of the state are in need of rainfall, it appears that good rainfall patterns over most of the state helped limit what was shaping up to be a higher than average mite year for us. Fortunately, we spray only about 5% of our cotton acreage for spider mites most years. Because of the confirmed aphid resistance to chloronicotinoids a couple of weeks ago and some additional control issues that were probably related to resistance, we're fortunate to be in an upper Southeast cotton production region where aphid outbreaks are often controlled by aphid mummies and the fungus.

Kudzu Bug Update

Kudzu bugs generally have not become quite the terror that we expected at this point. Knock on wood. Although more soybean fields reached the 15 nymph per 15 sweep threshold this past week, widespread treatment has not been needed. We are now wondering about the intensity of this year's major kudzu bug flights, but will also keep our fingers crossed for the next 2 to 3 weeks. In the Scotland County planting date/maturity group test, Dominic Reisig's graduate student, Alejandro, reported that late stage kudzu bug nymphs are now present in the April planted plots, early instars are present in the May planted plots, and very few adults or nymphs in the June planted "full season" and beans planted following wheat. Egg masses were beginning to show up on late planted beans, however. In all of the bifenthrin-protected plots, kudzu bug adults and nymphs levels were extremely low, irrespective of planting date or maturity group. In the untreated plots very few of the maturity group combinations had met the nymphal threshold. When sweeping for nymphs, remember that this sampling is probably most effective if done between approximately 11 a.m. and 3 or 4 p.m. when the kudzu bug nymphs are more likely to be higher in the plants and within sweeping range.

INSECT TRAP DATA

From: Andrew Baucom, Agricultural Extension Agent, Union and Stanly Counties

Light Trap Data from Anson, Stanly and Union Counties

```

*****
                Number of Adult Insects
                *****
                Union S      Stanly N      Anson W
                *****      *****      *****
Date           CEW  GR   CEW  GR   CEW  GR
*****
July 16         4   21    -   -    -   -
July 18         3   20    -   -   14   3
July 20         6   15    0   3   11   8
July 23        11   28    0   3   38  11
July 25        23   35    1   2   42   6
July 27        25   23    2   2   54   4
July 30        14   11    1   0   31   8
August 1       17    5    0   0   27   0
August 3        9    7    0   0    5   0
August 6       12    4    6   1    8   2
August 8       18    3    1   1   31   0
August 10      20    5    0   2   27   2
*****
    
```

CEW = corn earworm moths; GR = green stink bugs

Union County-South; Stanly County-North; Anson County-West

From: Richard W. Rhodes, County Extension Director, Bertie County

Light Trap Data from Bertie County

```

*****
                                Indian
                                Windsor  Hexlena  Woods
                                *****  *****  *****
Date           BW  GSB  BW  GSB  BW  GBS
*****
July 22         10   9    -   -    -   -
July 23         3   14   -   -    -   -
July 25         1    3    -   -    -   -
July 29        25    3    -   -    -   -
July 30        18    0    -   -    2   0
July 31        15    2    -   -    -   -
August 1       10    0   11   0    3   0
August 2        8    0   10   0    0   0
August 3        7    2    9    0    -   -
August 4        -    -    -   -   12   0
August 5       29    2    -   -    5   0
August 6       23    4    -   -    -   -
    
```

```

August 7      20      2     13      0      -      -
August 8      17      0      4       0      -      -
*****
    
```

BW = bollworms; GSB = green stink bugs

Indian Woods: Liberty Hall Farms

From: Mike Carroll, Agricultural Extension Agent, Craven County

Light Trap Data from Craven County

```

*****
                        Number of Adult Insects
*****
Date      BW      GSB      BSB      FAW      THW
*****
July 9      2       2        0        2        0
July 12     2       2        1        0        0
July 16     0       0        0        0        0
July 20    41       3        2        0        1
July 23    25       3        0        0        2
July 25    34       2        0        0        1
July 26    40       2        0        0        0
July 27   106       2        1        2        0
July 30    48       2        1        2        0
August 1    55       0        0        2        1
August 3    37       0        1        0        0
August 6    42       0        1        0        1
August 8    31       1        0        0        0
*****
    
```

BW = bollworms; GSB = green stink bugs; BSB = brown stink bugs;
 FAW = fall armyworms; THW = tobacco hornworms

Location of trap: Cove City

Cooperators: R & W McCoy Farms and Cove City Fertilizer

From: Colby S. Lambert, Agricultural Extension Agent, Cumberland County

Light Trap Data from Cumberland County

```

*****
                        Number of Adult Insects
*****
Date      THW      CEW      GSB      BSB
*****
July 11     4       11        1        1
July 13     0        5        1        0
July 20     0       30        6        0
July 23     0       47        9        1
July 26     0       41        3        0
July 27     0       57        7        2
    
```

July 30	1	63	1	0
August 2	0	42	4	0
August 6	0	15	3	3
August 9	1	27	3	0

THW = tobacco hornworms; CEW = corn earworms;
 GSB = green stinks bugs; BSB = brown stink bugs

Trap located in Godwin at Cumberland/Harnett County Line
 at Lewis Farms off of Highway 301

From: Arthur R. Bradley, Jr., County Extension Director, Edgecombe County

Light Trap Data from Edgecombe County

Number of Adult Insects

Date	West Edgecombe			Coakley			Lawrence		
	CEW	BS	GS	CEW	BS	GS	CEW	BS	GS
July 9	-	-	-	3	1	1	-	-	-
July 11	-	-	-	8	1	3	-	-	-
July 13	-	-	-	9	0	0	-	-	-
July 16	-	-	-	17	0	5	-	-	-
July 18	-	-	-	-	-	-	-	-	-
July 20	-	-	-	10	0	1	-	-	-
July 23	9	0	1	9	0	2	-	-	-
July 25	18	0	2	-	-	-	0	0	2
July 27	10	0	2	16	0	6	1	0	3
July 30	19	0	0	10	0	4	0	0	2
August 1	15	0	0	4	0	0	0	0	2
August 3	9	0	0	1	0	0	0	0	0
August 6	17	0	1	4	0	2	0	0	0
August 8	7	0	1	5	0	2	0	0	4
August 10	8	0	1	-	-	-	1	0	0

Abbreviations: CEW = corn earworms;
 BS = brown stink bugs; GS = green stinks bugs

From: Upper Coastal Plains Research Station, Edgecombe County

**Light Trap Data from Edgecombe County -
Upper Coastal Plains Research Station**

```

*****
Date           CEW
*****
July 24        3
July 25        2
July 31        19
August 1        3
August 2        1
August 7        16
August 8        3
*****

```

Abbreviations: CEW = corn earworms

Locations: South East of Rocky Mount

From: Alan A. Harper, Lenoir County

Light Trap Data from Lenoir County

June

```

*****
Number of Adult Insects
*****
Date      HW    CEW    ECB    AW    AWC    GSB    BSB    TBW
*****
June 22   0     2     0     0     0     0     0     0
June 23   0     0     0     1     0     0     0     0
June 24   0     3     1     0     1     0     0     0
June 25   0     4     0     0     2     0     0     0
June 26   0     2     0     0     2     0     0     0
June 27   0     1     0     0     0     0     0     1
June 28   0     0     0     0     0     0     0     0
June 29   0     2     0     0     0     0     0     0
June 30   0     1     0     0     1     0     0     0
*****

```

July

```

*****
Number of Adult Insects
*****
Date      HW    CEW    ECB    AW    AWC    GSB    BSB    TBW
*****
July 1    0     2     0     1     1     0     0     0
July 2    0     2     0     1     1     0     0     0
July 3    0     1     0     0     0     0     0     0
July 4    1     0     1     2     1     0     0     0

```

Date	Light	unplugged						
July 5								
July 6								
July 7	0	0	0	3	6	1	0	1
July 8	0	0	0	2	4	0	0	0
July 9	0	1	0	5	3	0	1	0
July 10	0	0	0	2	1	0	0	0
July 11	0	2	0	1	1	0	0	0
July 12	0	1	0	4	7	0	0	0
July 13	2	4	0	13	4	0	0	0
July 14								
July 15	0	7	0	11	6	1	0	0
July 16	0	6	0	6	2	1	1	1
July 17	0	4	1	2	4	0	2	0
July 18	0	8	0	1	3	2	1	0
July 19	0	5	0	4	3	0	0	1
July 20	0	5	0	0	0	0	0	0
July 21	0	11	0	1	3	1	0	0
July 22	0	36	0	0	0	0	0	1
July 23	0	25	0	1	3	2	0	3
July 24	0	41	0	1	4	4	0	0
July 25	0	29	0	1	7	0	0	0
July 26	1	55	1	1	2	3	0	4
July 27	0	16	0	6	1	1	2	0
July 28	0	35	0	5	2	2	4	0
July 29	0	32	0	2	6	0	0	0
July 30	0	20	0	0	2	0	0	0
July 31	0	17	0	0	1	0	0	0

August

Number of Adult Insects

Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
August 1	0	15	0	1	1	0	0	0
August 2	0	5	0	1	0	0	0	0
August 3	0	12	0	0	2	0	0	1
August 4	0	7	0	0	2	2	0	0
August 5	0	14	0	0	0	2	0	0
August 6	0	9	0	3	1	2	0	1
August 7	0	2	0	0	0	4	0	0
August 8	0	1	0	1	1	1	0	0
August 9	0	4	0	1	1	2	1	1
August 10	0	2	0	1	1	11	1	0

Abbreviations: HW = hornworms; CEW = corn earworms; ECB = European corn borers; AW = true armyworms; AWC = armyworm complex; GSB = green stink bugs; BSB = brown stink bugs; TBW = tobacco budworms

From: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data from Northampton County

```

*****
                          Number of Adult Insects
*****
Woodland   Conway   Galatia   Seaboard   Gaston   W. Gaston   Jackson
*****   *****   *****   *****   *****   *****   *****
Date   CEW GR BR   CEW GR BR   CEW GR BR   CEW GR BR   CEW GR BR   CEW GR BR
*****   *****   *****   *****   *****   *****   *****
July 18   - - -   - - -   - - -   - - -   - - -   - - -   9 16 -
July 20   - - -   - - -   - - -   - - -   - - -   - - -   30 14 -
July 23   - - -   - - -   26 24 0   75 0 0   - - -   - - -   14 11 4
July 25   - - -   - - -   26 3 0   44 6 0   - - -   - - -   37 8 3
July 27   - - -   - - -   30 4 0   10 5 0   12 0 0   - - -   24 16 0
July 30   - - -   - - -   29 1 0   25 3 0   11 0 0   - - -   17 10 1
August 1   - - -   - - -   24 1 0   22 4 0   2 0 1   - - -   5 1 0
August 3   - - -   - - -   6 - -   12 0 0   - - -   - - -   6 1 0
August 5   - - -   - - -   7 0 0   12 0 0   - - -   - - -   58 3 0
August 7   1 4 0   - - -   - - -   14 7 0   - - -   - - -   58 2 0
August 10  - - -   - - -   - - -   - - -   - - -   - - -   64 8 0
*****
    
```

CEW = corn earworms; GR = green stink bugs; BR = brown stink bugs

Locations: Woodland, Conway, Galatia, Seaboard, Gaston, West Gaston and Jackson
 Monitored by: L. Culpepper, K. Edwards, Ben Harris, T. Flythe, D. Grant
 and B. Bryant

From: Mac Malloy, Agricultural Extension Agent, Robeson County

Light Trap Data from Robeson County

```

*****
                          Number of Adult Insects
*****
Date   THW   TBW   GSB   BSB   FAW   BW
*****   *****
July 25   2   -   1   1   -   -
July 27   -   2   5   1   -   5
July 30   -   -   -   -   -   2
August 1   -   -   -   -   -   5
August 3   -   -   -   -   -   -
August 6   -   1   1   2   1   2
August 8   -   -   -   -   -   1
*****
    
```

THW = tobacco hornworms; TBW = tobacco budworms; GSB = green stick bugs;
 BSB = brown stink bugs; FAW = fall armyworms; BW = bollworms

Location: Lumber Bridge; Collected by: Forbis Farms

From: Scotland County Extension Center

Light Trap Data from Scotland County

```

*****
                          Number of Adult Insects
*****
          Gibson                Johns                Laurinburg
*****                *****                *****
Date      BW  GSB  BSB  FAW      BW  GSB  BSB  FAW      BW  GSB  BSB  FAW
*****
July 18   27   9   0   0        -   -   -   -        -   -   -   -
July 20   52  10   2   0        -   -   -   -       54   3   0   0
July 23   54  13   1   0       436   7   0   0       89   3   0   0
July 25   16   3   0   0       189   4   1   0       21   2   1   0
July 27   34  15   0   0       173   4   1   0       37   2   1   0
July 30   21   3   0   0       85   3   0   0       26   0   1   0
August 1   18   1   0   0       35   0   0   0       18   0   0   0
August 3   21   2   1   0       10   0   0   0        7   0   0   0
August 6   30   4   0   0        -   -   -   -       17   0   1   0
August 8   48   2   0   0        -   -   -   -       28   0   0   0
*****
    
```

BW = bollworms; GSB = green stink bugs;
 BSB = brown stink bugs; FAW = fall armyworms

From: John Sanderson, Agricultural Extension Agent, Wayne County

Light Trap Data from Wayne County

```

*****
                          Number of Adult Insects
*****
                          Goldsboro
*****
Date      GSB  BSB  CEW  HW
*****
July 4           0   4   0   0
July 6           1   3   0   1
July 9           3   6   0   4
July 11          1   0   3   5
July 13          0   0   2   8
July 16          8   1  27   1
July 18          1   1  15   1
July 20          4   2   7   1
July 25          3   2  26   0
July 27          9   6  37   0
July 30          2   2  59   0
August 1         4  11  13   0
August 3         3   2   8   0
August 6         4   3   7   0
*****
    
```

GSB = green stink bugs; BSB = brown stink bugs; CEW = corn earworms; HW = hornworms

Cooperator: Gerald and Willie Howell Farm (Goldsboro)

From: Norman E. Harrell, Agricultural Extension Agent, Wilson County

Light Trap Data from Wilson County

```

*****
                        Number of Adult Insects
*****
                        Kenly      Fountain      Pender's
                        *****      *****      *****
Date                   CEW  GSB      CEW  GSB      CEW  GSB
*****
July 16                 5   0        -   -        -   -
July 18                 3   2        -   -        -   -
July 20                 2   3         5   1        -   -
July 23                 7   4        18  11       -   -
July 25                 5   9         8*  3        0   0
July 27                 6  11        14  11       2   0
July 30                14   2        19   8       2   0
August 1                3   0         8   3       1   0
August 3                1   0         8   2       0   0
August 6                2   2        17   8       0   0
August 8                3   1        13   1       3   0
August 10               1   2         7   2       2   0
*****
    
```

CEW = corn earworms; GSB = green stink bugs

*= problems with blacklight bulb

Locations: Kenly, Fountain and Pender's Cross Roads
 Monitored by: Norman Harrell, Barbara Smith and Adam Gardner

Recommendations for the use of chemicals are included in this publication as a convenience to the reader. The use of brand names and any mention or listing of commercial products or services in this publication does not imply endorsement by North Carolina State University, North Carolina A&T State University or North Carolina Cooperative Extension nor discrimination against similar products or services not mentioned. Individuals who use chemicals are responsible for ensuring that the intended use complies with current regulations and conforms to the product label. Be sure to obtain current information about usage regulations and examine a current product label before applying any chemical. For assistance, contact an agent of North Carolina Cooperative Extension.