

North Carolina Pest News

Departments of Entomology and Plant Pathology



Stephen J. Toth, Jr., editor
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CAUTION !

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

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http://ipm.ncsu.edu/current_ipm/pest_news.html

FIELD AND FORAGE CROPS

From: Jack Bacheler, Extension Entomologist

Cotton Insect Problems Declining

A significant portion of our cotton continues to shut down, with a number of fields well past the stage of being either attractive or vulnerable to bollworms and stink bugs. Cotton which has reached the stage where small terminal squares and blooms are hard to find in representative areas of cotton fields is no longer susceptible to bollworm, stink bug or plant bug damage. This was the case in a Bertie County stink bug threshold test this past Tuesday, August 19, where blooms were getting scarce, the upper square retention had dropped to less than 10 percent, and stink bug damage to quarter-sized bolls in the untreated check had dropped to approximately 2 percent. In our Wayne County stink bug test this morning, where moisture has been very good throughout the season and the cotton is 5+ feet in height, stink bug damage had averaged just under 30 percent internal boll damage in the untreated check over the past three weeks. The untreated check this morning was still at 30 percent, indicating that decent stink bug populations may be present in good moisture or late maturing situations. However, because this cotton field was in its sixth week of blooming, the 30 percent internal boll damage threshold would have just barely been met in producer fields.

On very rare occasions, beet and/or fall armyworms can migrate into North Carolina cotton fields in high enough numbers to cause economic damage to conventional and Bollgard cotton as late as the first week in September. Bollgard II and Widestrike cotton varieties are not susceptible to this damage. I have not been made aware of any economic damage by the above two pests, though both species are present in some cotton fields at low levels.

With our 2008 season's cotton crop rapidly coming to a close, this would be a good time to plan on attending the September 10, 2008 Cotton Field Day at Rocky Mount, beginning with Registration at 12:30 p.m. and the tours getting underway at 1:30 p.m. This year's tour stops will include a look at new weed management systems, managing difficult thrips problems, defoliation strategies, bloom-time fungicide applications for boll rot and hard lock control, fertilizer cost savings strategies, underappreciated soil compaction problems, and OVT tests of current and promising varieties.

Because we still have some potential insect damage in isolated cotton fields, I'll provide the next and probably final insect update next Friday, August 29.

From: Steve Bambara, Extension Entomologist

Fall Armyworm Spotted in Pastures

Fall armyworm activity seems to be picking up in eastern North Carolina pastures. I don't have details, but two county Extension agents are reporting fall armyworms (Fig. 1) in forages. For more information, see the notice from Amy Andrews on the Jones County Center web site at <http://jones.ces.ncsu.edu/index.php?page=news&ci=FIEL+2> and the Alabama Cooperative Extension Note *Management of Fall Armyworm in Pastures and Hayfields* on the web at <http://www.aces.edu/pubs/docs/A/ANR-1019/>.

Amy has also reported chinch bugs (Fig. 2) doing significant damage in millet. Fields need to be scouted for these critters **NOW** and for the next few weeks.



Fig. 1. Fall armyworm. Image from the University of Georgia archives (<http://www.bugwood.org>).



Fig. 2. Chinch bug nymphs and adults. Image from the Texas A&M University Department of Entomology.

ORNAMENTALS AND TURF

From: Steve Bambara, Extension Entomologist

Orangestriped Oakworms on Vacation

Where are all the orangestiped oakworms? These tiny caterpillars (Fig. 3) are often seen stripping the leaves of (usually) pin oak and willow oak. My guess is that the dry, hard clay soils have been too much for them to navigate. This caterpillar pupates in the ground. If the ground is like a brick, it makes it harder to come and go. I recently received a report of them from a part of the state with sandier soil. If you've had them before, watch for defoliated ends of branches and falling black fecal pellets on cars, lawn furniture or sidewalks beneath trees. These don't seem to kill trees, but can totally defoliate smaller trees. I've never seen a tree actually killed by them, even after repeated defoliation. A *B.t.* microbial insecticide would be a good treatment at their first appearance. Most of the other caterpillar insecticides should also be effective, if appropriately labeled.



Fig. 3. Orangestiped oakworm. Image by James R. Baker.

Bipalium Flatworms

Flatworms are animals that usually seek shelter during hot, dry conditions. They are predaceous on other, less fortunate animals they encounter while slithering about under rocks, logs, mulch, etc. Flatworms feed on earthworms and slug and snail eggs! *Bipalium kewense* (Fig. 4) is an introduced critter occasionally reported in greenhouses and now in some garden beds.



Fig. 4. A land planarian, *Bipalium kewense* Moseley. Image by Ed T. Schmidtman, USDA/ARS.

If you studied planaria in high school biology lab, then you know something about flatworms. Flatworms are interesting because of their powers of regeneration. If you cut a flatworm crosswise, the tail end will grow a new head and the head end will grow a new tail. If you cut them lengthwise, each side regenerates another. If you cut the head in two lengthwise but leave the body intact, the worm will grow two heads. No control recommendations seem necessary for the flatworms. The point is, don't just cut one in half thinking you killed it. For more information about *Bipalium*, see http://edis.ifas.ufl.edu/BODY_IN206.

Drought Effects

I mentioned how the drought and hard ground seems to have reduced populations of the orangestriped oakworm. Along that same thinking, Japanese beetles, green June beetles and even the annual cicada populations have all seemed lower this year. All of these insects spend time in the soil and must maneuver into or out of the soil. Soil moisture, in general, is also a critical factor for many soil insects. My own observations and comments from others lead me to believe that lightning bug populations are also reduced from recent years. Before you become too smug, yellow jacket populations seem to have increased by most accounts.

INSECT TRAP DATA

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

Light Trap Data from Bertie County

```

*****
                Windsor      Woodard      Hexlena      Roxobel      Colerain
                *****      *****      *****      *****      *****
Date            Moths  GSB   Moths  GSB   Moths  GSB   Moths  GSB   Moths  GSB
*****
July 16         0    0     11    0     0    0     0    0     0    0
July 17         0    0     7     0     0    0     10   0     0    0
July 18         0    0     4     0     0    0     7    0     0    0
July 19         0    0     7     0     0    0     -    -     0    0
July 20         0    0     4     0     0    0     -    -     0    0
July 21         0    0     2     0     0    0     3    7     0    0
July 22         0    2     6     0     0    0     2    0     0    0
July 23         2    1     4     0     0    0     -    -     32   2
July 24         0    3     8     0     0    2     5    2     57   2
July 25         2    1     13    0     0    0     2    0     62   1
July 26         6    3     15    0     -    -     -    -     -    -
July 27        12    3     18    0     -    -     -    -     -    -
July 28         7    1     17    0     3    3     7    1     160  4
July 29        12    0     49    0     5    0     31   1     370  5
July 30        39    6     30    0     -    -     8    1     -    -
July 31        46    4     18    0     15   0     8    0     92   0
August 1        -    -     1     0     17   0     28   1     192  1
August 2       79    6     0     0     -    -     14   0     -    -
August 3        -    -     18    0     -    -     -    -     -    -
August 4       35    2     48    2     41   0     29   3     730  6
August 5        -    -     38    2     -    -     13   1     360  6
*****

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Moths = Bollworm moths; GSB = Green stink bugs

From: Al Hight, County Extension Director, Brunswick County

Light Trap Data from Brunswick County

```
*****
Date           CEW      GSB      ECB      THW
*****
July 28        18       6        -        -
July 29        16       3        -        -
July 30        14       -        -        -
July 31        light turned off by mistake
August 1       37       6        -        -
August 2       28       6        -        -
August 3       21       4        -        1
August 4       37       6        -        -
August 5       22       5        1        -
August 6       22       10       -        -
August 7       25       8        1        -
August 8       21       5        -        1
August 10      17       4        2        -
August 12      7        -        1        -
August 13     10       2        -        1
*****
```

CEW = corn earworm; GSB = green stink bug;
ECB = European corn borer; THW = tobacco hornworm

From: Mike Williams, County Extension Director, Chowan County

Light Trap Data from Chowan County

```
*****
Date           Bollworm      Stink
                moths        bugs
*****
July 24        10           -
July 25        15           2
July 26        14           0
July 27        -            -
July 28        66           3
July 29        50           0
July 30        -            -
July 31        228          3
August 1       115          0
August 2       60           0
August 3       21           6
August 4       56           0
August 5       67           16
August 6       55           5
August 7       58           1
August 8       -            -
August 9       122          5
August 10      -            -
August 11      77           0
August 12      13           0
August 13      31           0
August 14      23           0
*****
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August 15          35          2
August 16          -          -
August 17          26          2
August 18          17          0
August 19          22          1
August 20          17          -
August 21          13          1
August 22          7          -
*****

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From: Mike Carroll, Agricultural Extension Agent, Craven County

Light Trap Data from Craven County

```

*****
                        Number of Adult Insects
*****
Date      THW      TBW      CEW      GSB      BSB      ECB      FAW      BAW      Looper
*****
July 18   4       0       28      4       1       2       7       -       -
July 21   0       0       6       6       1       5       3       1       1
July 23   3       0       21      1       1       2       4       0       1
July 25   3       1       29      4       0       3       1       1       0
July 28   2       1       82      3       1       3       0       2       3
July 30   5       -       62      3       1       3       6       3       3
August 1  -       -       -       -       -       -       -       -       -
August 4  7       3       227     13      2       5       12      4       4
August 6  4       0       190     14      1       2       17      2       2
August 8  3       0       90      5       2       2       13      2       0
August 11 4       0       97      2       0       2       14      0       2
August 13 2       0       55      1       0       2       3       1       2
August 15 1       0       4       0       0       0       1       0       0
August 18 3       2       43      4       0       0       5       2       1
August 20 1       0       9       1       0       1       2       0       0
*****

```

THW = tobacco hornworms; TBW = tobacco budworms; CEW = corn earworms;
 GSB = green stink bugs; BSB = brown stink bugs; ECB = European corn
 borers; FAW = fall armyworms; BAW = beet armyworms

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 23   1       8       1       0
July 25   2       29      1       0
July 28   6       165     13      0

```

July 30	2	190	3	0
August 1	0	98	3	0
August 4	0	101	9	0
August 7	0	160	10	0
August 8	-	-	-	-
August 11	2	74	2	0
August 13	2	15	0	0
August 15	1	13	3	0
August 19	11	63	8	0
August 22	12	115	6	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: Curtis D. Fountain, Agricultural Extension Agent, Duplin County

Light Trap Data from Duplin County

Number of Adult Insects

Date	BW	GSB	BSB
July 2	0	0	0
July 4	1	4	0
July 7	1	8	0
July 9	0	6	0
July 11	0	12	1
July 14	2	1	0
July 16	1	1	0
July 18	4	0	0
July 21	12	2	2
July 23	21	0	1
July 25	48	5	0
July 28	62	0	1
July 30	-	-	-
August 1	105	3	0
August 4	45	24	4
August 6	68	26	4
August 8	35	2	0
August 11	35	2	1
August 13	15	0	0
August 15	17	0	0
August 18	18	4	0
August 20	16	3	0
August 22	10	1	0

BW = cotton bollworms; GSB = green
 stink bugs; BSB = brown stink bugs

Trap location: approximately two miles east of Albertson
 Cooperator: Justin Murphy

From: Arthur R. Bradley, Jr., Agricultural Extension Agent, Edgecombe County

Light Trap Data from Edgecombe County

```
*****
                          Number of Adult Insects
*****
          Coakley          West Edgecombe          Lawrence
*****          *****          *****
Date          CEW   BS   GS          CEW   BS   GS          CEW   BS   GS
*****
July 25          27   -   3          -   -   -          -   -   -
July 28          35   -   9          -   -   -          -   -   -
July 30          23   -  15          -   -   -          -   -   -
August 1         47   -   7          -   -   -          2   -  10
August 4         68   -  19          45  -   3          10  -   0
August 6         23   -  12          28  -   4          20  -   6
August 8         49   -   0          30  -   5           8  -   1
*****
```

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

From: Paul Smith, Agricultural Extension Agent, Gates County

Light Trap Data from Gates County

```
*****
                          Bollworm      Stink
Date                          moths      bugs
*****
August 7                      34       0
August 8                       -       -
August 9                      67       -
August 10                      -       -
August 11                     63       0
August 12                     17       0
August 13                     21       0
August 14                     11       0
August 15                      7       0
August 16                      6       0
August 17                      4       0
August 18                     14       0
August 19                      3       0
*****
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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 1    0        2        0        0        0        0        0        0
June 2    0        3        0        0        0        1        0        0
June 3    0        1        0        1        0        3        0        0
June 4    0        1        0        0        0        3        0        0
June 5    0        2        0        0        0        2        0        0
June 6    0        3        0        0        0        0        0        0
June 7    1        1        0        0        0        2        4        0
June 8    1        2        1        1        0        1        1        0
June 9    0        2        0        1        1        4        2        0
June 10   1        2        0        1        1        2        1        0
June 11   1        2        0        1        1        1        1        0
June 12   0        1        0        1        1        0        0        0
June 13   0        2        0        1        1        0        0        0
June 14   0        1        1        0        2        0        0        0
June 15   0        2        2        0        0        2        2        0
June 16   0        3        1        0        0        1        0        1
June 17   0        0        0        0        2        1        0        0
June 18   1        2        0        0        2        1        0        1
June 19   0        0        0        0        1        0        0        0
June 20   0        2        2        0        1        0        0        0
June 21   0        3        0        0        3        0        0        0
June 22   0        6        1        0        0        2        0        0
June 23   1        3        1        0        2        3        0        0
June 24   0        2        0        0        3        0        0        0
June 25   0        4        2        0        3        0        1        0
June 26   1        1        0        0        4        1        0        0
June 27   0        1        1        0        0        0        0        0
June 28   0        2        0        0        0        1        0        0

June 29   0        2        0        1        3        2        0        0
June 30   1        0        0        0        2        0        0        0
*****
```

July

```
*****
                        Number of Adult Insects
*****
Date      HW      CEW      ECB      AW      AWC      GSB      BSB      TBW
*****
July 1    0        4        0        2        5        0        0        1
July 2    1        1        1        0        3        0        0        0
July 3    0        1        2        0        7        0        0        0
July 4    3        1        3        0        4        2        0        0
July 5    1        0        0        0        2        0        0        0
July 6    2        6        4        0        4        1        0        0
July 7    1        4        0        0        3        0        0        0
July 8    3        2        2        0        0        2        0        0
```

July 9	2	2	3	0	2	0	0	0
July 10	3	2	1	0	0	0	0	0
July 11	3	2	3	2	1	0	0	0
July 12	4	0	1	2	0	0	0	1
July 13	3	2	1	1	1	0	0	0
July 14	5	1	3	0	2	1	0	0
July 15	5	3	3	0	3	0	0	1
July 16	3	3	1	3	1	1	0	0
July 17	0	2	0	0	0	0	0	0
July 18	0	4	0	0	0	3	0	0
July 19	1	4	0	0	0	0	0	0
July 20	1	7	1	0	0	1	0	0
July 21	1	10	0	0	1	4	0	0
July 22	0	4	1	0	1	1	0	0
July 23	1	16	0	0	0	1	0	0
July 24	1	19	0	0	0	2	0	0
July 25	1	47	1	2	1	0	0	1
July 26	0	52	0	0	0	1	0	0
July 27	0	47	0	1	0	1	0	0
July 28	0	36	0	0	0	0	0	0
July 29	1	61	1	0	1	4	0	1
July 30	0	32	0	1	0	1	0	0
July 31	0	37	1	0	1	1	0	1

August

Number of Adult Insects

Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
August 1	0	41	0	0	0	1	0	0
August 2	0	55	1	1	0	4	0	3
August 3	0	26	0	0	0	3	0	0
August 4	0	46	1	0	1	1	0	0
August 5	0	66	2	0	0	2	0	1
August 6	0	71	0	0	0	4	0	2
August 7	0	51	0	0	2	10	0	0
August 8	1	28	1	0	2	3	0	1
August 9	1	30	1	0	1	3	0	0
August 10	0	28	2	0	0	4	0	0
August 11	1	4	2	0	0	4	0	0
August 12	0	8	1	0	0	0	0	0
August 13	0	8	1	0	0	0	0	0
August 14	1	6	0	0	2	0	0	0
August 15	0	8	0	0	0	2	0	0
August 16	1	18	1	0	4	4	0	0
August 17	3	18	2	1	3	2	0	0
August 18	2	16	1	0	0	0	0	0
August 19	1	19	0	0	0	2	0	0
August 20	2	18	1	0	2	1	0	0
August 21	0	28	1	0	1	0	0	0
August 22	2	16	2	0	2	0	0	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: J. B. Coltrain, County Extension Director, Martin County

Light Trap Data from Martin County

```
*****
                Farm Life   Robersonville
*****
Date            BW      GSB      BW      GSB
*****
July 14         4       0       4       1
July 16         2       0       4       0
July 18         2       0       2       0
July 21         4       0       2       2
July 23         4       0       2       0
July 25         6       5       6       0
July 28        11       1       8       1
July 30        13       6       9       1
August 1        20       3       6       0
August 4        17       7       9       0
August 6        14       1      12       3
August 8        18       3      18       1
August 11       20       1      23       0
August 13        8       0      11       0
August 15        5       0      16       0
August 18        4       0       6       0
August 20        3       2       9       2
August 22        3       1       -       -
*****
```

BW = Bollworm moths; GSB = Green stink bugs

From: Charlie Tyson, Agricultural Extension Agent, Nash County

Light Trap Data from Nash County

```
*****
Date            BW      GSB      BSB
*****
August 1         8       2       1
August 4         6       2       1
August 6         3       4       2
August 8         6       7       0
August 11        2      10       3
*****
```

BW = Bollworms; GSB = Green stink bugs;
BSB = Brown stink bugs

Trap location: near Hickory Crossroads

From: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data from Northampton County

```

*****
                        Number of Adult Insects
*****
      Woodland      Conway      Seaboard      Gaston      Jackson
*****      *****      *****      *****      *****
Date      CEW GR BR      CEW GR BR      CEW GR BR      CEW GR BR      CEW GR BR
*****
July 25      1  0  0      -  -  -      -  -  -      -  -  -      2  1  0
July 28      0  5  0      -  -  -      8  0  0      -  -  -      13 21  3
July 30      1  3  0      -  -  -      14 4  2      -  -  -      21 23  0
Aug.  1      2  3  0      -  -  -      8  1  0      -  -  -      58 11  0
Aug.  4      1  1  0      -  -  -      17 0  0      -  -  -      76 11  0
Aug.  6      0  3  0      -  -  -      21 0  0      -  -  -      76 17  1
Aug.  8      5  3  0      12 0  0      28 1  0      -  -  -      165 9  1
Aug. 10      4  4  0      10 0  0      38 0  0      -  -  -      88  0  0
Aug. 13      5  1  0      5  1  0      18 0  0      -  -  -      44  0  0
Aug. 15      2  0  0      4  0  0      36 0  0      -  -  -      55  0  0
Aug. 17      3  0  0      7  0  0      16 0  0      -  -  -      60  0  0
Aug. 20      2  0  0      9  0  0      25 0  0      -  -  -      36  2  0
Aug. 22      2  0  0      2  0  0      12 0  0      -  -  -      29  0  0
*****

```

CEW = corn earworms; GR = green stink bugs; BR = brown stink bugs
 Locations: Woodland, Conway, Seaboard, Gaston and Jackson
 Monitored by: L. Culpepper, K. Edwards, T. Flythe,
 D. Grant and B. Bryant

From: Tray Bridgers, Agricultural Extension Agent, Sampson County

Light Trap Data from Sampson County

```

*****
                        Number of Adult Insects
*****
      Date           BW      GSB      BSB      HW
*****
July 25             34       4       -       -
July 28            117       3       -       3
July 30            102       8       -       -
August 1             65       4       -       1
August 4            154      11       -       6
August 6             71       7       -       5
August 8             -        -       -       -
August 11           -        -       -       -
August 14            45       1       -       5
August 15             5       2       -       1
August 19            75       5       -      19
*****

```

BW = cotton bollworms; GSB = green stink bugs;
 BSB = brown stink bugs; THW = hornworms

Black trap located 6 miles south of Clinton on
 US-701S on the farm of Mike and James Hope.

From: David E. Morrison, Agricultural Extension Agent, Scotland County

Light Trap Data from Scotland County

```

*****
                        Number of Adult Insects
*****
                Gibson                John's                Laurinburg
                *****                *****                *****
Date            BW  GSB  BSB  FAW      BW  GSB  BSB  FAW      BW  GSB  BSB  FAW
*****
July 16         -   -   -   -        46  -   1   -        32  1   -   -
July 18         -   -   -   -        24  2   -   -        36  1   -   -
July 21         45  4   -   -       121  4   -   -       140  1   -   -
July 23        101  4   1   -       172  4   1   -       309  5   -   -
July 25        112  -   -   -       217  2   -   -       362  4   -   -
July 28        238  5   -   -       517  4   -   -       405  12  -   -
July 30        184  7   -   -       390  4   1   -       386  10  -   -
Aug. 1         134  4   -   -       182  1   -   -       362  4   -   -
Aug. 4          54  4   -   -        85  9   2   -       220  2   -   -
Aug. 6          74  4   1   -       197  3   1   -       226  4   -   -
Aug. 8          70  -   -   -       185  2   -   -       129  2   -   -
Aug. 11         81  1   -   -       109  -   1   -       165  0   -   -
Aug. 13         99  -   -   -        38  -   -   -        34  -   -   -
Aug. 15         37  -   -   -        36  -   -   -        30  -   -   -
Aug. 17         -   -   -   -         -   -   -   -       130  -   -   -
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BW = bollworm moth; GSB = green stink bugs;
 BSB = brown stink bugs; FAW = fall armyworms

From: Kevin Johnson, Agricultural Extension Agent, Wayne County

Light Trap Data from Wayne County

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*****
                        Number of Adult Insects
*****
                Seven Springs                Goldsboro
                *****                *****
Date            GSB  BSB  CEW  HW      GSB  BSB  CEW  HW
*****
July 9           0   0   0   0        0   1   0   0
July 11          0   0   0   0        0   1   0   0
July 14          0   4   0   2        4   2   2   0
July 16          0   0   0   0        0   1   0   0
July 18          0   0   0   0        3   0   0   0
July 21          0   0   0   0       17   4   0   0
July 23          2   0   1   9        4   0   4   1
July 25          0   0   0   0        1   1  22   1
July 28         10   0  10  30       17   1 119   2
July 30          3   1  11  23        2   9 116   3
August 1         1   0  10  11       12   5  83   3
August 4         0   0   0   0       50  15 135   1
August 6         3   3  22  23       14  16  51   1
August 11        5   0  27  30        1   1  27   3
August 13        0   0   0   0        3   1  19   4

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August 15	0	0	0	0	0	0	29	0
August 18	3	0	20	15	1	0	29	2
August 20	1	0	14	9	2	0	20	3

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

Cooperators: D. M. Price (Seven Springs); Willie Howell (Goldsboro)

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

Light Trap Data from Wilson County

Number of Adult Insects

Date	Lucama		Pender's Xrds		Sims		Fountain	
	CEW	GSB	CEW	GSB	CEW	GSB	CEW	GSB
July 21	-	-	5	0	-	-	3	5
July 23	4	5	7	0	1	1	7	5
July 25	6	5	2	0	0	0	16	4
July 28	14	10	9	1	3	1	20	5
July 30	12	5	16	1	3	2	22	3
August 1	13	1	14	1	7	1	23	4
August 4	13	5	15	1	7	0	49	4
August 6	20	5	18	1	7	2	32	4
August 8	14	3	10	0	9	1	23	2
August 11	20	0	21	1	11	0	15	1
August 13	19	0	5	2	3	0	8	1
August 15	10	0	11	0	4	0	6	0
August 18	13	2	30	0	2	0	12	0
August 20	-	-	12	0	4	0	8	3
August 22	21	7	8	0	1	0	3	0

CEW = corn earworms; GSB = green stink bugs

Locations: Lucama, Pender's Crossroads, Sims and Fountain
 Monitored by: Chris Bass, Adam Gardner, Thad Sharpe and Barbara Smith

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.

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