

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.

In This Week's Issue . . .

ANNOUNCEMENTS AND GENERAL INFORMATION

- Final Issue of *North Carolina Pest News* for 2007

FIELD AND FORAGE CROPS

- Cotton Insects
- Spider Mites in Peanuts

ORNAMENTALS AND TURF

- Insect Information Notes
- Fall Spiders
- Looking Forward
- Fly Swatter Philosophy [Commentary]

INSECT TRAP DATA

- Light Trap Data from Anson, Stanly and Union Counties
- Light Trap Data from Bertie County
- Light Trap Data from Chowan County

- Light Trap Data from Craven County
- Light Trap Data from Cumberland County
- Light Trap Data from Duplin County
- Light Trap Data from Edgecombe County
- Light Trap Data from Halifax County
- Light Trap Data from Hoke County
- Light Trap Data from Jones County
- Light Trap Data from Lenoir County
- Light Trap Data from Martin County
- Light Trap Data from Nash County
- Light Trap Data from Northampton County
- Light Trap Data from Onslow County
- Light Trap Data from Robeson County
- Light Trap Data from Sampson 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 World Wide Web at:
http://ipm.ncsu.edu/current_ipm/pest_news.html

ANNOUNCEMENTS AND GENERAL INFORMATION

Final Issue of *North Carolina Pest News* for 2007

This will be the final issue of the *North Carolina Pest News* for 2007. The editor would like to thank all of the Extension specialists and county agents and directors that contributed articles and/or insect trap data for the newsletter this season.

If you have any comments, criticisms or suggestions regarding the content or format of the *North Carolina Pest News*, please forward them to the editor (e-mail: Steve.Toth@ncsu.edu). Your input will help us improve the quality of the newsletter in the future.

Thank you for your interest in the *North Carolina Pest News*. The newsletter will resume in April of 2008. Meanwhile, individual articles on insect and disease pests in North Carolina will be provided as *Pest Alerts* via electronic mail and the Internet at: http://ipm.ncsu.edu/current_ipm/palert99.html.

FIELD AND FORAGE CROPS

From: Jack S. Bachelier, Extension Entomologist

Cotton Insects

With insects posing little threat from here on out and defoliation and harvesting taking the stage in the coming weeks, this will be our last cotton insect update for 2007.

First, we were all saddened to hear of the late August passing of one our weed scientists, Dr. John Wilcut of the Crop Science Department at North Carolina State University.

Although thrips again seemed to be as damaging as I've ever experienced (I also said that in 2005 and 2006), both bollworms and stink bug damage appear to be down this year, based on early damaged boll survey results. Unfortunately, much of this lighter damage was due to unattractive, "droughty" cotton in July and August. We had spotty establishment of beet and fall armyworms during the past six weeks, though of little economic consequence. Most producers would have gladly traded higher worm or bug damage for better rainfall and higher yields.

If you have any suggestions about how we can improve our weekly cotton insect updates or the information posted at our *Cotton Insect Corner* website, please let us know either directly or through your county agent.

Our project would like to thank cotton producers for their support of the studies funded by Cotton Incorporated through the NC State Support Program, our county agents for coordinating the state's 50 light traps, conducting applied research and demonstrations and for providing sound research-based advice to producers, our North Carolina Department of Agriculture research station personnel, our project Agricultural Research Specialist Dan Mott, the independent crop consultants who keep us on our toes, and the industry representatives who supported our research and recommendations.

We will post the results of our various insecticide use and boll damage surveys and applied research studies online at the *Cotton Insect Corner* website during the coming months (see <http://ipm.ncsu.edu/cotton/insectcorner/>). Please pay us a visit.

From: Rick L. Brandenburg, Extension Entomologist

Spider Mites in Peanuts

Spider mites are everywhere in peanuts from the northern most counties of North Carolina to the South Carolina border. Comite and Danitol miticides are available, but growers may have to twist the pesticide dealers arm to get him to order these chemicals. The big question growers have to ask themselves in making treatment decisions is whether or not a particular field will still make a crop if we get some adequate rainfall soon. If the answer is “not very likely”, then the value of a spider mite spray may be in question. If the field still has potential and there is some rain in sight, then it may be worth the investment. The forecast I saw for next week calls for more of the same weather unless we get some rain out of this storm system. Mites love hot and dry weather and they have had a summer to remember.

ORNAMENTALS AND TURF

From: Stephen B. Bambara, Extension Entomologist

Insect Information Notes

The North Carolina State University Department of Entomology provides a plethora of concise notes about insects for your enjoyment and edification. These cover insects related to Ornamentals and Turf, Residences, Structures and Communities, Beekeeping, Forage Crops, Small Grains, and other sites. Type "insects.ncsu.edu" into the address line of your browser.

The newest insect information note is No. 143, "Major Arthropod Pests of Holly", available on the web at <http://www.ces.ncsu.edu/depts/ent/notes/O&T/specificplants/note143/note143.html>.

Fall Spiders

Spider webs are not just found in Charlotte. Fall is spider season, especially for orb spiders that are “showy” and build large webs. The black and yellow *Argiope* (Fig. 1) is often found in the garden and may be among one of the most photographed. Spiders should be considered beneficial to the landscape. They don't feed on plants, but do feed on the many insects in shrubs, garden and turf. Few spiders are dangerous. The best recommendation is to not handle any of them. Carol O'Meara of Colorado State University showed that more complex landscapes (higher percent woody or herbaceous plants) supported greater numbers and diversity of spiders.

For more information on spiders, see the following insect information notes on the web:

<http://www.ces.ncsu.edu/depts/ent/notes/Other/note137/note137.html>

<http://www.ces.ncsu.edu/depts/ent/notes/Urban/spiders.htm>



Fig. 1. Yellow garden spider, *Argiope aurantia*. Image by James Braselton (<http://www.bugwood.org>).

Looking Forward

1. Be thankful that it has been too dry for millipedes this year.
2. Yellow jackets may be more noticeable around sweet drinks and exposed fruit when it is dry.
3. Velvet ants are out and about.
4. Stinging caterpillars may still be hanging around.
5. Japanese beetles may be fewer next year because of hard, dry soil.
6. Bark beetles may be more abundant because of stressed trees.
7. Brood XIV periodical cicadas will be back in some areas!

Fly Swatter Philosophy [Commentary]

Some time in the near future, global climate change will be taken seriously enough, that we will significantly have to alter how we do some things. Many scientists believe that the climate changes we are currently seeing are a result of human activity. (Much of the population doesn't agree and if you don't believe in greenhouse gases, reduced pan evaporation rates, and increased global dimming, you probably don't believe it, either.) There are many things that will need to be done as a population, but there are also things that can be done on a personal level. They mostly revolve around energy use and you probably know what they are, already.

How does this relate to "Pest News"? IPM is not just a management strategy for releasing less poison into the environment. It also involves energy usage. It takes a certain amount of carbon related energy to manufacture pesticides. If you use pesticides unnecessarily, you are also wasting the energy involved in their manufacture, packaging, transportation and disposal.

Consider the energy use factor, if you can, to ignore minor cosmetic damage, hand pick a few caterpillars, grow pest-resistant varieties and trouble-free plants, or use a fly swatter instead of the insecticide spray can.

(Note from the author: This is just my opinion and I haven't even seen Al Gore's movie. See http://www.nasa.gov/vision/earth/environment/2005_warmest.html.)

INSECT TRAP DATA

From: Thomas G. Pegram, Agricultural Extension Agent, Union County

Light Trap Data from Anson, Stanly and Union Counties

```

*****
                        Number of Adult Insects
*****
      Anson S      Anson N      Union S      Union N      Stanly
*****      *****      *****      *****      *****
Date      CBW  GR  BR  CBW  GR  BR  CBW  GR  BR  CBW  GR  BR  CBW  GR  BR
*****
July 9      -   -   -    0   0   0    6  36   0    7   4   2   10  0   0
July 11     -   -   -    0   0   0    6  40   0    4   4   0    3   0   0
July 13     -   -   -   10   0   0    7  41   0   10   3   2    4   0   0
July 16     9  53   0   15   -   -    7  19   -    4   7   0   10   0   0
July 18     9  55   0    -   -   -    9  27   -    8   5   1    6   1   0
July 20    12  64   2   19   -   -   26  39   -    7   9   0    6   0   0
July 23    13  58   0   20   -   -  power outage  11  2   0   12  1   0
July 25    12   2   0   22   -   -   37   7   0    7   0   0   13   1   0
July 27    31   4   0   85   -   -   28   3   0   10   1   0   17   0   0
July 30    72  18   1   75   1   -   56  21   -    7   3   1   13   0   0
August 1    29   5   0   67   1   -   32  16   -   19   4   0   18   2   0
August 3    55  23   0   51   1   -  104  18   -   12   1   0   19   1   0
August 6   139  22   1   78   0   0  245  51   0   38   6   1   38   1   0
August 8   142  21   0   60   0   0  270  78   0   52   5   0   30   3   0
August 10  175  21   0   58   3   0  294  67   0  117  14   0   16   0   0
August 13    -   -   -   63   0   0  251  54   0   40  12   0   45   1   0
August 15    -   -   -  light out  143  12   0   54   7   0   13   0   0
August 17    -   -   -   46   0   0  135  25   0   31   2   0   16   1   0
August 20  126  14   0    -   -   -  147  21   0   62  34   0   32   3   0
August 22   57  21   0    -   -   -  125  15   0   27   4   0   14   0   0
August 24   78  21   0    -   -   -   83  12   0   11   3   0   10   2   0
*****

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CBW = cotton bollworm moths; GR = green stink bugs; BR = brown stink bugs

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

Light Trap Data from Bertie County

```

*****
                Windsor      Woodard      Hexlena      Roxobel      Colerain
                *****      *****      *****      *****      *****
Date            BW GSB BSB    BW GSB BSB    BW GSB BSB    BW GSB BSB    BW GSB BSB
*****
July 19         0  0  0      7  3  0      0  0  0      16  5  0      -  -  -
July 20         5 16  0      24  3  0      0  4  0      -  -  -      -  -  -
July 21         0  0  0      -  -  -      0  0  0      10  3  0      -  -  -
July 22         3  0  0      -  -  -      0  0  0      -  -  -      -  -  -
July 23         0  0  0      14  2  0      0  0  0      16  0  0      0  0  0
July 24         3  4  0      7  0  0      6  0  0      13  1  0      29  0  0
July 25         4  1  0      16  1  0      -  -  -      16  1  0      47  0  0
July 26         5  0  0      26  1  0      3  0  0      12  0  0      30  0  0
July 27         3  0  0      27  1  0      6  0  0      22  2  0      69  0  0
July 28         3  0  0      -  -  -      -  -  -      -  -  -      -  -  -
July 29         9  1  0      -  -  -      -  -  -      -  -  -      -  -  -
July 30         7  1  0      41  1  0      11  0  0      23  0  0      115  1  0
July 31         4  0  0      10  0  0      14  0  0      14  0  0      40  0  0
August 1        11  0  0      11  1  0      15  0  0      9  0  0      57  0  0
August 2        14  0  0      11  0  0      19  0  0      14  0  0      54  0  0
August 3        26  0  0      15  0  0      26  0  0      5  0  0      62  4  0
August 4        32  2  0      -  -  -      -  -  -      -  -  -      -  -  -
August 5       118  3  0      -  -  -      -  -  -      -  -  -      -  -  -
August 6        48  0  0      82  7  0     168  0  0      24  2  0     258  41  0
August 7       111  3  0      -  -  -      23  0  0      12  3  0     119  9  0
August 8       128 11  0     136  5  0     164  0  0      11  1  0      88  13  0
August 9        88 10  0      43  5  0      82  22  0      24  4  0      82  3  0
August 10       -  -  -      39  4  0      44  0  0      13  3  0      -  -  -
August 11       -  -  -      18  0  0      -  -  -      32  0  0      -  -  -
August 12       60  3  0      -  -  -      -  -  -      -  -  -      -  -  -
August 13       11  0  0      42  0  0      28  0  0      8  1  0      -  -  -
August 14       18  0  0      28  0  0      9  0  0      28  0  0      -  -  -
August 15       22  0  0      25  1  0      7  0  0      14  2  0      11  4  0
August 16       48  3  0      41  3  0      4  0  0      8  1  0      17  4  0
August 17       35  3  0      -  -  -      -  -  -      48  0  0      -  -  -
August 18       -  -  -      18  0  0      -  -  -      -  -  -      -  -  -
August 19       55  3  0      14  0  0      -  -  -      36  0  0      -  -  -
August 20       14  2  0      18  0  0      -  -  -      27  0  0      84  1  0
August 21       -  -  -      8  0  0      -  -  -      27  1  0      11  1  0
August 22       -  -  -      26  3  0      -  -  -      30  0  0      -  -  -
August 23       52  2  0      34  2  0      -  -  -      40  3  0      -  -  -
August 24       -  -  -      21  3  0      -  -  -      27  1  0      -  -  -
August 25       -  -  -      -  -  -      -  -  -      -  -  -      -  -  -
August 26       -  -  -      -  -  -      -  -  -      -  -  -      -  -  -
August 27       50  1  0      98  5  0      -  -  -     146  0  0      -  -  -
August 28       -  -  -      54  0  0      -  -  -      16  0  0      -  -  -
August 29       8  0  0      47  0  0      -  -  -      -  -  -      -  -  -
August 30       5  0  0      20  0  0      -  -  -      -  -  -      -  -  -
*****

```

BW = Bollworm moths; GSB = Green stink bugs; BSB = Brown stink bugs

From: Mike Williams, County Extension Director, Chowan County

Light Trap Data from Chowan County

```
*****
                          Adult Insects
                          *****
Date                       CEW      GSB
*****
July 25                     11       -
July 26                     35       -
July 27                     25       -
July 28                     19       1
July 29                      -       -
July 30                     30       2
July 31                     18       0
August 1                    28       0
August 2                    30       1
August 3                    48       4
August 4                    38       1
August 5                    68       2
August 6                    36      12
August 7                   136       4
August 8                   163       4
August 9                   223      10
August 10                  210       8
August 11                   -       -
August 12                  110       0
August 13                   lost      -
August 14                   60       3
August 15                   24       0
August 16                   37      14
August 17                   53       7
August 18                   60      12
August 19                   62      14
August 20                   31      11
August 21                   40      22
August 22                   33       5
August 23                   36       4
August 24                   37       3
August 25                   62       5
August 26                  110       6
August 27                   -       -
August 28                   65       3
*****
```

CEW = Corn earworms (bollworms);
GSB = Green stink bugs

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 6      3     1     11     1     1     -     2     -     -
July 9      5     1     26     2     1     -     1     -     -
July 11     2     -     22     1     1     -     -     -     -
July 13     4     -     28     2     -     -     1     -     -
July 16     4     2     34     2     1     -     3     -     -
July 18     3     -     10     1     -     -     -     -     -
July 19     5     1     23     3     2     -     1     -     -
July 23     7     2     31     2     1     -     2     -     -
July 25     1     -     29     -     -     2     1     -     -
July 27     1     -     33     1     -     -     2     -     -
July 30     -     -     -     -     -     -     -     -     -
August 1    1     -     73     1     -     -     4     -     -
August 3    -     2    141     1     -     3     5     -     -
August 6    5     -    342     8     -     -     6     -     -
August 8    3     -    451     3     -     -    10     -     -
August 10   4     -    375     8     -     -     -     -     -
August 13   8     -    176     6     -     -     1     -     -
August 15   4     -     71     5     -     -     2     -     -
August 17   3     -     56     5     -     -     1     -     -
August 20   3     -    112     8     -     -     2     -     -
August 22   3     -     51     -     -     -     2     -     -
August 24   2     -     72     1     -     -     1     -     -
August 31   2     -     48     -     -     -     -     -     -
*****
```

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 11     0     3     5     0
July 13     0     2     5     0
July 16     4    33    12     0
July 18     2    66     6     0
July 20     7   160    20     0
July 23    23   214     0     0
July 25    14   150     6     0
*****
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July 27	12	202	13	0
July 30	6	197	12	0
August 1	-	-	-	-
August 3	-	-	-	-
August 6	-	-	-	-
August 8	9	442	19	0
August 10	5	271	18	0
August 13	15	283	10	0
August 15	3	463	22	0
August 17	1	207	7	0
August 20	9	311	19	0
August 22	1	193	16	0
August 24	8	251	38	0
August 27	10	91	31	0
August 29	6	49	35	1
August 31	8	71	16	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	1	0
July 4	0	0	0
July 6	0	4	4
July 9	4	8	0
July 11	1	11	0
July 13	4	7	2
July 16	3	6	0
July 18	9	13	0
July 20	21	23	0
July 23	22	3	0
July 25	15	0	0
July 27	53	4	0
July 30	73	1	0
August 1	98	2	0
August 3	71	3	0
August 6	293	12	0
August 8	84	24	0
August 10	28	11	0
August 13	33	2	0
August 15	44	9	1
August 17	37	4	0
August 20	34	6	0
August 22	22	3	0
August 24	25	3	1
August 27	19	3	0

August 29 24 2 0
 August 31 16 4 1

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

 W Edgecombe /a Coakley /b Lawrence /c

 Date CEW BS GS CEW BS GS CEW BS GS

July 10	-	-	3	14	0	46	-	-	-
July 11	-	-	6	4	0	28	-	-	-
July 13	0	0	7	8	0	44	-	-	-
July 15	0	0	5	10	0	49	-	-	-
July 18	0	0	8	2	0	39	-	-	-
July 20	8	0	1	1	0	56	4	0	4
July 23	8	0	0	8	0	3	1	0	0
July 25	17	0	2	-	-	-	7	0	0
July 27	24	0	3	14	0	5	10	0	3
July 30	29	0	8	28	0	5	2	0	2
August 1	12	0	2	11	0	2	16	0	1
August 3	36	0	15	33	0	2	8	0	1
August 6	40	0	10	235	0	30	133	0	11
August 8	35	0	7	318	0	58	117	0	9
August 10	35	0	7	280	0	65	50	0	8
August 13	7	0	6	133	0	12	5	0	0
August 15	10	0	14	82	0	17	2	0	1
August 17	11	0	7	195	0	42	25	0	5
August 20	10	0	12	183	0	97	20	0	4
August 22	10	0	4	124	0	102	15	0	13
August 24	11	0	2	62	0	41	-	-	-

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

a = trap located 12 miles west of Tarboro; maintained by Tom Porter.
 b = trap located 5 miles east of Tarboro; maintained by Glenn O'Neal.
 c = trap located at Lawrence; maintained by Terri Thomas.

From: Arthur Whitehead, Jr., Agricultural Extension Agent, Halifax County

Light Trap Data from Halifax County

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*****
                Scotland
                Neck
                East
                Enfield
                West
                Enfield
                *****
Date            CEW  GSB  BSB  CEW  GSB  BSB  CEW  GSB  BSB  CEW  GSB  BSB
*****
July 18         2   0   0   -   -   -   -   -   -   6   2   0
July 20         4   4   0   -   -   -   -   -   -   21  10  1
July 23         2   0   0   2   0   0   -   -   -   29   3  3
July 25         7   0   0   4   0   0   12  1   0   13   1  0
July 27        10   3   0   3   0   0   10  1   0   6   2   0
July 30         2   2   0   2   0   0   15  0   0   19   2   0
August 1        16   1   0   1   0   0   10  0   0   26   0   2
August 3         8   1   0   4   0   0   -   -   -   11   2   0
August 6       133  11   0   37  2   0   45  8   0   14   1   1
August 8       113   9   0   141  5   1   75  1   0   5   1   1
August 10       50   8   0   -   -   -   35  0   0   4   0   2
*****

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*****
                Glenview
                Weldon
                Roseneath
                *****
Date            CEW  GSB  BSB  CEW  GSB  BSB  CEW  GSB  BSB
*****
July 18         -   -   -   -   -   -   -   -   -
July 20         -   -   -   -   -   -   -   -   -
July 23         14   3   0   -   -   -   -   -   -
July 25          1   0   0   18  0   0   1   1   0
July 27         25   0   0   30  1   0   2   0   0
July 30         23   0   0   35  1   0   5   1   0
August 1        16   0   0   26  1   0   5   0   0
August 3        46   0   0   20  0   0   9   0   0
August 6       108  11   0   76  6   0   66  4   0
August 8        82  22   1   60  5   0   86  5   0
August 10       -   -   -   -   -   -   78  12  0
*****

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Abbreviations: CEW = corn earworms;
 GSB = green stinks bugs; BSB = brown stink bugs

From: Keith B. Walters, County Extension Director, Hoke County

Light Trap Data from Hoke County

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*****
Date            Moths      GSB      BSB
*****
July 16         25         2         0
July 18         18         5         0
July 20         49        10         0
July 23         60         5         0
July 25         80         2         1

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July 27	95	3	0
July 30	180	6	0

GSB = green stink bugs; BSB = brown stink bugs

Location of trap is Chisholm Road, Raeford.
 Trap monitored by Earl Hendrix.

From: Franky J. Howard, Agricultural Extension Agent, Jones County

Light Trap Data from Jones County

Number of Adult Insects

Date	BW	BSB	GSB	HW

July 2	0	0	0	0
July 4	0	0	0	0
July 6	1	0	0	1
July 9	7	0	0	0
July 11	0	0	0	1
July 13	0	0	0	0
July 16	0	1	1	15
July 18	0	4	0	18
July 20	0	0	1	7
July 23	1	0	0	4
July 25	5	0	1	10
July 27	23	0	0	2
July 30	27	0	0	0
August 1	49	0	1	2
August 3	34	0	0	5
August 6	41	0	3	11
August 8	12	0	0	0
August 10	48	0	3	10
August 13	23	0	0	18
August 15	1	0	0	4
August 17	4	0	0	14

Trap Location: Comfort
 Monitored by: Morris and Brett Pike

BW = bollworms; BSB = brown stink bugs;
 GSB = green stink bugs; HW = hornworms

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 15   0        5        0        5        2        0        0        0
June 16   0        7        0        1        3        0        0        0
June 17   0        0        0        2        2        2        0        1
June 18   0        1        1        1        4        0        0        0
June 19   0        3        0        0        2        2        4        0
June 20   0        5        1        0        3        0        2        0
June 21   -----no electric power-----
June 22   0        2        0        0        1        0        0        0
June 23   1       10        1        3       14        1        0        1
June 24   0        3        0        1        4        0        0        0
June 25   0        1        1        1        2        1        0        0
June 26   0        0        5        0        6        3        0        0
June 27   0        3        4        1        2        2        0        0
June 28   0        4        1        0        3        1        0        0
June 29   0        4        0        1        2        0        0        0
June 30   0        4        2        1        5        0        0        0
*****
```

July

```
*****
                        Number of Adult Insects
*****
Date      HW      CEW      ECB      AW      AWC      GSB      BSB      TBW
*****
July 1    -----no electric power-----
July 2    0        3        0        0        3        2        0        0
July 3    0        6        2        0        6        1        0        0
July 4    0        1        0        0        3        0        0        0
July 5    0        2        1        0        5        4        0        0
July 6    0        3        1        0        2        1        0        0
July 7    0        3        1        1        3        4        0        0
July 8    -----no electric power-----
July 9    0        2        2        0        5        3        0        0
July 10   0        2        0        0        0        7        0        0
July 11   0        1        0        0        3        3        0        0
July 12   0        0        0        0        1        1        0        0
July 13   0        2        2        0        5        9        0        0
July 14   0        4        2        0        3        1        0        0
July 15   0        0        3        4        1        4        0        0
July 16   1        2        1        1        4        9        0        0
July 17   0        3        2        1        2        3        0        0
July 18   0        2        0        0        1        1        0        0
July 19   1       12        1        0        3       15        0        0
July 20   0       11        2        0        7        7        2        0
July 21   -----unplugged-----
July 22   0       12        2        0        7        0        0        0
July 23   0        8        4        0        4        1        0        1
*****
```

July 24	1	13	0	1	2	0	0	0
July 25	0	22	1	1	2	3	0	0
July 26	0	21	3	1	4	1	0	0
July 27	0	19	1	0	3	3	0	0
July 28	0	27	6	1	3	2	0	2
July 29	0	28	4	1	4	2	0	0
July 30	0	41	0	1	3	2	0	0
July 31	1	31	3	0	3	3	0	0

August

Number of Adult Insects

Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
August 1	2	37	2	0	8	5	1	0
August 2	0	85	3	0	2	11	0	0
August 3	0	76	4	0	3	6	0	0
August 4	0	84	2	0	1	18	0	0
August 5	0	76	4	1	4	14	0	0
August 6	0	99	1	0	2	16	0	0
August 7	0	55	5	0	0	25	0	0
August 8	1	65	1	0	1	32	0	0
August 9	1	60	3	0	4	13	1	0
August 10	1	30	2	0	0	23	0	1
August 11	1	20	0	2	2	4	0	1
August 12	0	48	2	1	3	9	0	0
August 13	0	41	2	1	2	1	0	0
August 14	1	23	2	1	1	3	0	0
August 15	2	70	2	6	1	7	0	1
August 16	1	14	2	0	0	2	0	0
August 17	1	11	2	0	0	1	0	0
August 18	2	10	1	1	1	2	0	0
August 19	2	30	1	7	0	2	0	0
August 20	0	17	2	2	0	0	0	0
August 21	0	7	4	5	2	1	0	0
August 22	0	17	2	0	1	0	0	0
August 23	1	39	10	2	1	3	0	0
August 24	1	34	20	0	1	1	0	0
August 25	0	18	8	0	0	0	0	0
August 26	0	21	7	0	2	1	0	0
August 27	0	8	10	1	3	0	0	0
August 28	0	18	5	2	0	2	0	0
August 29	0	15	4	0	2	1	0	0
August 30	0	15	7	0	1	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  SB
*****
July 16         7   3                0   8
July 18         4   5                0   5
July 20         1   3                0   7
July 23         7   0                7   0
July 25        11   0                6   1
July 27         9   0                10  0
July 30        17   2                16  2
August 1       16   0                10  1
August 3       22   1                27  1
August 6       32   8                175 4
August 8       39  11                270 7
August 10      57   3                105 4
August 13      39   1                 42  5
August 15      39   3                 39  2
August 17      47   2                 95  5
August 20      52   9                147 16
August 22      39   3                 69  7
August 24      61   2                 28  1
August 27      36   0                 45  0
August 29      49   4                 27  0
August 31      63   1                 33  0
*****

```

BW = Bollworm moths; GSB = Green stink bugs; SB = Stink bugs

From: Charlie Tyson, Agricultural Extension Agent, Nash County

Light Trap Data from Nash County

```

*****
                Number of Adult Insects
*****
Date            CEW          GSB          BSB
*****
July 13         3             -             -
July 16        10             -             -
July 18         5             3             -
July 20         8            10             1
July 23        14             3             0
July 25         1             0             0
July 27        25             0             0
July 30        23             0             0
August 1       16             0             0
August 3       46             0             0
August 6      108             0             0
August 8       82            22             1
August 10      72            17             0
August 13     118             2             0

```

```

August 15 41 1 0
August 17 176 4 0
August 20 161 4 0
August 22 134 4 0
August 24 17 5 0
August 27 36 0 0
August 29 48 0 0
*****

```

CEW = corn earworms; 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   'Neck   Seaboard   Gaston   Jackson
*****   *****   *****   *****   *****   *****
Date    CEW GR BR  CEW GR BR  CEW GR BR  CEW GR BR  CEW GR BR  CEW GR BR
*****
July 18  -  -  -    -  -  -    -  -  -    3  4  -    -  -  -    0 12  0
July 20  -  -  -    -  -  -    -  -  -    2  2  0    -  -  -    12 89  2
July 23  -  -  -    4  2  0    -  -  -    6  0  0    -  -  -    25  2  0
July 25  0  0  0    -  -  -    -  -  -    12 4  0    -  -  -    26  5  0
July 27  0  0  0    5  1  0    -  -  -    16 2  0    1  0  0    37  3  0
July 30  3  1  0    -  -  -    -  -  -    14 2  0    3  0  0    79  7  0
Aug.  1  3  0  0    4  1  0    -  -  -    12 4  0    7  0  0    59  9  0
Aug.  3  5  0  0    13 3  0    -  -  -    18 9  0    5  0  0   119  7  0
Aug.  6  10 1  0    12 4  0    -  -  -    65 21 0    12 0  0   358 19 0
Aug.  8  12 7  0    24 8  2    -  -  -   115 32 0    19 0  0   331 38 0
Aug. 10  14 9  1    16 4  0    -  -  -    37  6  0    -  -  -   249 60 0
Aug. 13  3  1  0    15 4  2    -  -  -    16  2  0    24  1  0   184 27 0
Aug. 15  -  -  -    38 5  1    -  -  -    -  -  -    -  -  -   104  5  0
Aug. 17  -  -  -    18 2  0    -  -  -    24  3  0    14  2  0   204  5  0
Aug. 20  8  2  0    9  0  0    -  -  -   114  5  0    1  2  0   351 21 0
Aug. 22  10 3  0    12 6  0    -  -  -    56  4  0    -  -  -   174 11 0
Aug. 24  10 3  0    15 6  0    -  -  -    29  2  0    -  -  -   297  8  0
*****

```

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

Locations: Woodland, Conway, 'Neck, Seaboard, Gaston and Jackson
Monitored by: L. Culpepper, K. Edwards, B. Johnson, T. Flythe,
D. Grant and B. Bryant

From: Tray Bridgers, Agricultural Extension Agent, Onslow County

Light Trap Data from Onslow County

```
*****
                        Number of Adult Insects
                        *****
Date      Bollworms   GSB    BSB   Hornworms
*****
July 4      6         3     0     0
July 6     20         7     0     0
July 9     25         19    3     0
July 11    21         10    0     0
July 13    33         10    3     1
July 16    31         10    0     0
July 18    34         3     5     3
July 20    39         18    2     6
July 23    25         5     0     3
July 25    25         0     0     0
July 27    57         4     0     2
July 30   105         7     0     0
August 1   70         3     0     3
August 3  185         3     0     0
August 6  190         40    0     0
August 8  288         88    0     3
August 10 200        100   0     4
August 13 110         20    0     0
August 15  85         15    0     0
August 17  64         49    0     5
August 20  65         25    0     0
August 22  42         41    0     4
August 24  55         15    0     0
*****
```

GSB = green stinks bugs; BSB = brown stink bugs

Trap location: Richlands; Cooperator: Richland Farms
Insect counts are from a single black light trap
located approximately 1 mile east of Richlands.

From: Kent Wooten, Agricultural Extension Agent, Robeson County

Light Trap Data from Robeson County

```
*****
                        Number of Adult Insects
                        *****
Date      BW     GSB    BSB    FAW
*****
July 6      12     -     -     -
July 7-8    23     -     -     -
July 9      18     -     -     -
July 10     15     -     -     -
July 11     11     -     -     -
July 12     14     -     -     -
July 13-15  47     18    3     -
July 16     18     7     1     2
*****
```

July 17-18	132	17	4	-
July 19	98	11	1	11
July 20	105	7	1	9
July 21-22	172	5	0	13
July 23	105	2	0	2
July 24	102	3	0	0
July 25	97	5	1	3
July 26	93	4	0	4
July 27-29	165	6	0	3
July 30	58	3	0	4
July 31-1	191	35	1	4
August 2	69	2	1	1
August 3-5	168	18	1	3
August 6	63	7	0	0
August 7	52	6	0	2
August 8	48	6	0	0
August 9	53	5	1	0
August 10-12	131	17	1	2
August 13	56	6	0	2
August 14	43	7	1	1

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

Location is Rowland; monitored by Kay McGirt

From: Josh Gaddy, Agricultural Extension Agent, Sampson County

Light Trap Data from Sampson County

Number of Adult Insects

Date	BW	GSB	BSB	THW
July 2	----- trap set up -----			
July 5	3	0	1	1
July 6	3	0	0	0
July 9	3	7	0	4
July 11	3	1	1	2
July 13	4	4	0	8
July 16	----- power failure -----			
July 18	12	0	0	12
July 20	57	5	0	8
July 23	132	2	0	17
July 25	50	0	0	4
July 27	93	1	0	3
July 30	118	5	0	3
August 1	124	1	1	2
August 3	130	5	0	1
August 7	178	4	0	9
August 10	215	5	0	20
August 13	57	1	0	45
August 15	72	3	1	38
August 17	30	0	0	10
August 20	52	0	0	29
August 22	14	1	0	10

August 24 45 4 1 13
 August 27 50 5 3 10
 August 29 21 0 0 1
 August 31 36 0 0 4

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

Date	Gibson				John's				Laurinburg			
	BW	GSB	BSB	FAW	BW	GSB	BSB	FAW	BW	GSB	BSB	FAW
July 11	13	14	0	0	22	33	1	0	12	10	1	0
July 13	8	10	0	0	17	25	6	0	3	7	0	0
July 16	16	14	0	0	61	14	0	0	26	5	0	0
July 18	16	5	0	0	74	24	2	0	57	6	0	0
July 20	41	7	0	0	223	41	0	0	156	11	0	0
July 23	26	1	0	0	268	3	0	0	81	1	0	0
July 25	62	3	0	0	138	1	0	0	146	6	0	1
July 27	53	4	0	0	164	4	0	0	110	5	0	0
July 30	133	9	0	0	377	5	0	0	175	5	0	1
Aug. 1	27	2	0	0	274	0	0	0	96	3	0	0
Aug. 3	142	23	0	0	308	1	0	0	323	9	0	0
Aug. 6	195	25	0	0	240	13	0	0	266	44	0	0
Aug. 8	123	19	0	0	132	17	1	0	44	9	1	2
Aug. 10	80	14	0	0	94	27	1	0	40	6	0	2
Aug. 13	43	11	0	0	80	7	1	0	38	2	0	1
Aug. 15	70	4	0	0	64	0	1	0	32	0	0	2
Aug. 17	148	10	0	0	-	-	-	-	9	3	0	0
Aug. 20	160	23	1	0	212	9	0	0	23	0	0	1
Aug. 22	67	14	0	0	270	7	0	0	9	0	0	2
Aug. 24	47	6	0	0	195	1	1	12	12	2	0	2
Aug. 27	157	6	0	0	-	-	-	-	24	0	1	4
Aug. 29	142	2	1	0	142	3	6	0	12	2	1	3

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

```

*****
                        Number of Adult Insects
*****
                Seven Springs                Goldsboro
                *****                *****
Date           GSB   BSB   CEW   HW           GSB   BSB   CEW   HW
*****
July 6         -    -    -    -           2    0    1    0
July 9         -    -    -    -          23    6    1    0
July 11        -    -    -    -           1    0    1    0
July 13        1    0    1    2           5    0    3    1
July 16        2    0    6    4           -    -    -    -
July 18        0    0    5    0          10    -   11    2
July 20        4    0    4    3           -    -    -    -
July 23        1    0    8    5           2    0   61    2
July 25        -    -    -    -           1    1   50    3
July 27        2    0    4    3           3    0  120    0
July 30        2    1    6    2           7    5   75    0
August 1       5    0   12    2           5    1   51    0
August 3       -    -    -    -           0    2   25    1
August 6       2    2   10   20          1    0  111    5
August 8       4    0   26    2           7    1  101    3
August 10      -    -    -    -           -    -    -    -
August 13     11    0   44   10           0    0   57    4
August 15     12    0   18    6           2    0   82    0
August 17      -    -    -    -           0    0    4    2
August 20      -    -    -    -           4    0   20    3
August 22      4    0   25    9           -    -    -    -
August 27     20    2   50    9           -    -    -    -
August 29      -    -    -    -           -    -    -    -
August 31      2    0   25    2           -    -    -    -
*****

```

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
*****
                Lucama      Pender's Xrds      Sims      Fountain
                *****
Date           CEW  BS  GS    CEW  BS  GS    CEW  BS  GS    CEW  BS  GS
*****
July 16        -   -   -     -   -   -     -   -   -     4   0   9
July 18        -   -   -    14   0   1     0   0   2     4   0  25
July 20        -   -   -    10   0   0     3   0   0    18   0  24
July 23       12   0   0    17   0   1     0   0   0    37   0   3

```

July 25	2	0	1	25	0	0	1	0	0	13	0	3
July 27	4	0	2	15	0	1	4	0	0	20	0	14
July 30	7	0	2	12	0	1	9	0	0	36	0	26
August 1	4	0	0	12	0	0	0	0	0	26	0	0
August 3	6	0	1	31	0	0	0	0	1	58	0	10
August 6	25	0	6	46	0	2	22	0	3	121	0	60
August 8	25	3	2	28	0	1	11	0	3	94	0	78
August 10	3	1	2	17	0	1	4	0	2	27	0	38
August 13	4	1	0	43	0	0	3	0	0	12	0	11
August 15	38	0	5	62	0	0	1	0	0	29	0	5
August 17	8	0	0	26	0	0	5	0	2	48	0	5
August 20	17	0	0	-	-	-	4	0	2	58	0	10

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

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