

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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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

FIELD AND FORAGE CROPS

From: Steve Koenning, Extension Plant Pathologist and Jim Dunphy, Extension Soybean Agronomist

Soybean Disease Update

Soybean foliar diseases have been of minor importance so far this year. Many of the varieties most susceptible to frogeye leaf spot have been removed from the market. Still some varieties

moderately susceptible to frogeye are still out there and conditions for disease development are favorable. Target spot has been identified at several locations in North and South Carolina. Unfortunately, this is a disease we have little experience with, but in 2004 and 2005 a number of fields suffered severe yield losses as a result of premature defoliation. Target spot will move fast following 1 to 2 days of rainfall. A strobilurin fungicide (Headline or Quadris) is most effective against this disease.

Six Reasons to Apply Fungicides to Soybean

1. Target spot or frogeye leaf spot.
2. Fungicides will generally increase yields by 1 to 2 bushels per acre in the absence of frogeye leaf spot or target spot. There are enough reports of larger increases that we are inclined to believe that higher returns are possible, but have not been able to predict where and when they will occur.
3. September is the month we are most likely to be affected by hurricanes. This results in: a) high rainfall and humidity that are favorable for disease development; b) wet field conditions may prevent a timely harvest; and c) fungicides may prevent or slow down seed deterioration and loss of seed quality.
4. Although it now seems likely we will see soybean rust in North Carolina in 2006, most of the crop is already too far along to be affected by rust. Late planted soybean is at greater risk from soybean rust than the early crop.
5. Early maturing soybean is more likely to be affected by seed rots than late maturing soybean because it matures in hot humid weather. Seed quality improvement as a result of fungicide applications is more likely with early maturing soybean.
6. A fungicide application, especially at R4 to R5, may improve the quality of soybean grown for seed and may allow these soybeans to remain in the field longer if there are delays in harvest.

Five Reasons Not to Apply Fungicides to Soybean

1. You need a 3 to 4 bushel yield increase to pay for one application of a fungicide.
2. Although fungicides will often improve seed quality, the improvement in quality rarely results in a premium.
3. Rust may affect yield in a few late-planted soybeans this year, but any yield loss as a result of rust is likely to be limited.
4. Even if you have frogeye leaf spot, many of the available varieties are only moderately susceptible.
5. Because late maturing soybean matures in October/November, losses of seed quality and harvest delays due to weather are less likely.

ORNAMENTALS AND TURF

From: Stephen B. Bambara, Extension Entomologist

Fall Webworms Blanket Western Counties

Fall webworms have been reported to be severe in several western North Carolina counties. I mentioned fall webworms in the July 14, 2006 issue of *North Carolina Pest News* (http://ipm.ncsu.edu/current_ipm/06PestNews/06News14/pestnews.html#title4). This hairy caterpillar webs the branches of many hardwood trees and makes them unsightly. There can also be a debris mess beneath. This is still primarily a cosmetic issue. Typically we see these mostly on pecans, sourwoods, and persimmons, but they have "branched out" to a broader selection of hosts this year. For a refresher, see the previous issue of *North Carolina Pest News* or *Ornamental and Turf Insect Information Note No. 46* on fall webworms (<http://www.ces.ncsu.edu/depts/ent/notes/O&T/trees/note46/note46.html>). I'm not certain why there is this unusual outbreak in the western region of the state.

In addition to the new fall webworm insect note mentioned above, *Ornamental and Turf Insect Information Note No. 135* on the orangestriped oakworm is available on the web (<http://www.ces.ncsu.edu/depts/ent/notes/O&T/trees/note135/note135.html>) in case anyone is in need of this handout information.

European Hornets: Slime Flux Reflux

European hornet (Fig. 1) populations will soon be reaching their peak. I've had many reports about them visiting fluxing oak trees. I've also had many reports of them visiting lights and windows at night. The European hornet (*Vespa crabro*) is an introduced species and our only true hornet in North America. It builds large tan paper nests that are rarely free hanging. Nests are often located in hollow trees, but partially exposed. Sometimes they nest in structures. They are attracted to lights at night.



Fig. 1. European hornets. Image by Kelly Groves.

Like all wasps and hornets, they can be considered beneficial because they eat other insects. These hornets often eat other stinging insects. However, sometimes the nest location could place one at higher risk of being stung. Sometimes they strip bark from soft barked twigs. A normal foraging hornet, if left to tend to it's own business is usually not a threat. For more information about these mahogany and yellow colored hornets and how to control them if necessary, see *Residential, Structural and Community Pests Insect Note No. 11* on the web at <http://www.ces.ncsu.edu/depts/ent/notes/Urban/eurohornet.htm>.

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 17    12  78  20   10  0  0   18  17  0   38  4  0    8  0  0
July 19     -   -   -   15  0  0   19  12  0   30  2  0   14  0  0
July 21    18  11  2   28  0  0   81  17  0   40  4  1   15  1  0
July 24    55  48  7  101  1  2  211  13  0   59  26  3   24  0  0
July 26     0  0  0   157  3  0  250  9  0   46  18  1   23  1  0
July 28     0  0  0   133  1  0  185  12  0   44  8  0   27  2  0
July 31     -   -   -  132  5  0  215  14  0   36  9  2   42  3  0
August 2    -   -   -  118  4  1  230  15  0   43  8  0   33  2  0
August 4    -   -   -  102  1  0  245  12  0   57  11  0   10  0  0
August 7    71 158  9   80  1  0  375  9  0   52  4  0    5  1  0
August 9    39  14  0   28  0  0  150  6  0   67  3  0   16  0  0
August 11   42  21  1   38  5  0  145  4  0   61  7  0   17  0  0
August 14   36  6  0   52  0  0  180  5  0   84  1  0   26  0  0
August 16   22  46  1   28  3  0  168  14  0   42  4  0   15  1  0
August 18   11  17  0   27  1  0  152  19  0   28  0  0   24  1  0
August 21   46  46  1   42  0  0  134  33  0   42  8  0   26  1  0
August 23  105 147  0   36  0  0   76  17  0   25  5  0   12  0  0
August 25   68  28  0   55  2  0   75  22  0   19  3  0    9  0  0
August 28   48  16  0   34  0  0    -   -   -   11  1  0    5  0  0
August 30   33  8  0   42  0  0    -   -   -   17  3  0    4  5  0
Sept. 1    -   -   -   70  0  0    -   -   -    9  1  0    5  2  0
*****

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

Trap Locations and Cooperators:
 Anson N: Ansonville area (Fincher Martin)
 Anson S: Deep Creek area (Richard Melton)
 Union N: New Salem area (Tom Pegram)
 Union S: White Store area (Greg Hargett)
 Stanly: Richfield area (Shannon Braswell)

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

Light Trap Data From Bertie County

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*****
                Windsor      Woodard      Hexlena      Roxobel      Colerain
                *****      *****      *****      *****      *****
Date           BW GSB BSB    BW GSB BSB    BW GSB BSB    BW GSB BSB    BW GSB BSB
*****
July 10        0  0  0      -  -  -      -  -  -      1  0  0      -  -  -
July 11        0  2  0      -  -  -      0  0  0      -  -  -      -  -  -
July 12        0  3  0      2  0  0      -  -  -      -  -  -      -  -  -
July 13        0  3  0      -  -  -      0 17  0      3  3  0      5  1  0
July 14        0  5  0      2 10  0      0  9  0      -  -  -      -  -  -
July 15        -  -  -      -  -  -      -  -  -      -  -  -      -  -  -
July 16        -  -  -      -  -  -      -  -  -      -  -  -      -  -  -
July 17        -  -  -      7 12  0      0 11  0      2 14  0      -  -  -
July 18        1  9  0      -  -  -      0  3  0      1  2  0      -  -  -
July 19        1  6  0     11  7  0      0  2  0      0  3  0      2  7  0
July 20        0  7  0      8  5  0      0  8  0      0 22  0      2  1  0
July 21        7  1  0      5  2  0      1  6  0      -  -  -      -  -  -
July 22        1  6  0      -  -  -      -  -  -      -  -  -      -  -  -
July 23       15  2  0      -  -  -      -  -  -      -  -  -      -  -  -
July 24       18  0  0     14  1  0      5 11  0      -  -  -     15  0  0
July 25       19  6  0     27  0  0      4  2  0      -  -  -     18  0  0
July 26       10  1  0     24  3  0      4  7  0      -  -  -     35  1  0
July 27       35  9  0     24  5  0      2  7  0      9  1  0     15  2  0
July 28       22  2  0      -  -  -      3  7  0     11  0  0     46  0  0
July 29       30  3  0      -  -  -      -  -  -      -  -  -      -  -  -
July 30       55  1  0      -  -  -      -  -  -      -  -  -      -  -  -
July 31      102  0  0      7  1  0     54 31  0     50  6  0     60  4  0
August 1       93  4  0     178 1  0     39  7  0     16  4  0     170 0  0
August 2      215 10  0     87  8  0     53  6  0     19  3  0     236 6  0
August 3      265 12  0     77  1  0     66 12  0      -  -  -     305 3  0
August 4      202  8  0     83  4  0     65  5  0     19  5  0     351 4  0
August 5      115  3  0     80  2  0      -  -  -     31  5  0      -  -  -
August 6       34  3  0     56  0  0      -  -  -      -  -  -      -  -  -
August 7       14  0  0     42  3  0     92  0  0     21  2  0     470 0  0
*****

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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

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*****
                        Adult Insects
                        *****
Date           CEW      GSB      BSB      ECB
*****
July 18        0         6         0         0
July 19        0         4         0         3
July 20        0         2         0         5
July 21        1         6         -         -
July 22        7         2         -         -
July 23        -         -         -         -

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July 24	43	2	-	-
July 25	40	2	-	-
July 26	35	1	-	-
July 27	41	13	-	-
July 28	51	27	-	-
July 29	46	4	-	-
July 30	81	68	-	-
July 31	160	8	-	-
August 1	140	7	-	-
August 2	137	19	-	-
August 3	265	20	-	-
August 4	161	21	-	-
August 5	103	5	-	-
August 6	-	-	-	-
August 7	65	0	-	-
August 8	51	0	-	-
August 9	78	2	-	-
August 10	11	0	-	-
August 11	21	0	-	-
August 12	17	0	-	-
August 13	8	0	-	-
August 14	10	0	-	-
August 15	35	0	-	-
August 16	85	0	-	-
August 17	36	0	-	-
August 18	41	1	-	-
August 19	39	0	-	-
August 20	34	0	-	-
August 21	74	1	-	-
August 22	195	0	-	-
August 23	182	0	-	-
August 24	147	0	-	-
August 25	191	1	-	-
August 26	335	2	-	-
August 27	491	0	-	-
August 28	400+	1	-	-
August 29	400+	0	-	-
August 30	500+	0	-	-
August 31	-	-	-	-

CEW = Corn earworms (bollworms); GSB = Green stink bugs;
 BSB = Brown stink bugs; ECB = European corn borers

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 10	3	1	9	3	1	0	0	0	0
July 12	1	0	5	3	0	0	0	0	0
July 17	4	0	31	16	0	0	0	0	0
July 19	2	0	16	2	0	2	0	0	0
July 21	7	1	23	2	3	0	0	0	0

July 24	4	0	42	3	0	4	2	0	0
July 25	2	0	21	4	1	0	0	0	0
July 26	1	1	36	2	0	0	0	0	0
July 27	2	0	31	1	1	0	0	0	0
July 28	4	0	43	2	0	0	0	0	0
July 31	9	0	318	16	1	0	2	0	0
August 1	0	2	96	3	0	1	3	0	0
August 2	4	0	187	7	3	1	2	0	0
August 3	1	0	153	3	1	0	0	0	0
August 4	4	0	149	6	1	0	0	0	0
August 7	3	2	179	2	0	0	4	0	0
August 9	0	0	42	0	0	0	2	0	0
August 11	0	0	23	0	1	0	0	0	0
August 14	4	0	24	0	0	0	0	0	0
August 16	0	0	7	0	0	0	7	0	0
August 21	4	0	37	0	4	4	3	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

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

Light Trap Data From Cumberland County

Number of Adult Insects

Date	THW	CEW	GSB	BSB
June 30			trap set up	
July 3	2	9	22	6
July 5	0	2	15	4
July 7	0	6	3	1
July 10	0	2	7	1
July 12	-	-	-	-
July 14	1	0	31	2
July 17	4	16	29	1
July 19	19	40	23	1
July 21	28	129	10	2
July 24	13	439	10	0
July 26	4	401	0	0
July 28	6	321	15	1
July 31	-	-	-	-
August 2	9	180	46	8
August 4	-	-	-	-
August 7	9	466	67	5
August 9	1	103	20	0
August 11	0	114	24	0
August 14	4	152	14	0
August 16	1	91	24	1
August 18	4	141	50	0
August 21	5	122	41	0
August 23	6	82	15	0
August 25	11	145	15	0

August 28 18 180 24 0
 August 31 28 134 33 1

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

From: Curtis D. Fountain, Agricultural Extension Agent, Duplin County

Light Trap Data From Duplin County

 Number of Adult Insects

Date	BW	GSB	BSB
July 7	3	2	1
July 10	1	2	2
July 12	1	5	1
July 14	0	8	2
July 17	0	21	2
July 19	0	17	3
July 21	0	6	0
July 24	321	15	0
July 26	286	9	0
July 28	161	7	0
July 31	715	32	0
August 2	557	60	1
August 4	525	32	2
August 7	152	12	1
August 9	57	13	2
August 11	48	2	1
August 14	13	0	0
August 16	14	0	0
August 18	31	3	0
August 21	12	2	0
August 23	10	8	0
August 25	8	1	0
August 28	3	1	0
August 30	6	1	1

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

Trap location: Albertson
 Cooperator: Justin Murphy

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

Light Trap Data From Edgecombe County

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*****
                        Number of Adult Insects
*****
      W Edgecombe /a      Coakley /b      Lawrence /c
*****      *****      *****
Date      CEW  BS  GS      CEW  BS  GS      CEW  BS  GS
*****
July 7      0   0   3       7   0  48       -   -   -
July 10     0   0   0      14   7   1       -   -   -
July 12     0   0  12       3   0  34       -   -   -
July 14     0   0  13       4   0  61       -   -   -
July 17     0   0   3       9   0  27       0   0   1
July 19     0   0   2       7   0  24       0   0   0
July 21     0   0   4       6   0  12       0   0   2
July 24     -   -   -      29   1  61       5   0   0
July 26     30  0   2      46   0  11      55   0  11
July 28     45  1   8      46   0  14      11   0   2
July 31    117  1  13      72   0  39       1   0   0
August 2     50  0   8     107   0  14      11   0   5
August 4     58  0  13     190   0  39      70   0   1
August 7     30  0   1      79   0   1      22   0   1
August 9     29  1   3      39   0   3      11   0   4
August 11    25  0   4       -   -   -       3   0   1
August 14    -   -   -      35   0   1       1   0   0
August 16    23  0   4     169   0  16       7   0   2
August 18    13  1   2     122   0   2       4   0   0
August 21    14  0   6      76   0   9      15   0   0
August 23    10  0   2       -   -   -      22   0   2
August 24    -   -   -     290   0   6       -   -   -
August 25    15  0   0      84   0   0       2   0   0
August 28    14  0   4     330   0   3     192   0  17
August 30    27  0   0     425   0  12      15   0   0
September 1  -   -   -     125   0   2      90   0  12
*****

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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 Bryan Mayo.
 c = trap located at Lawrence; maintained by Terri Thomas.

From: Paul Smith, Agricultural Extension Agent, Gates County

Light Trap Data From Gates County

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*****
                        No. of Adult Insects
*****
Date      Corn earworms
*****
August 3      4
August 4      -

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August 5 15
 August 6 6
 August 7 4
 August 8 10
 August 9 26
 August 10 5
 August 11 9
 August 12 7
 August 13 10
 August 14 5
 August 15 8
 August 16 4
 August 17 6
 August 18 6
 August 19 1
 August 20 -
 August 21 3
 August 22 9
 August 23 8
 August 24 5
 August 25 7
 August 26 -
 August 27 61
 August 28 44
 August 29 21
 August 30 44

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

Light Trap Data From Halifax County

Date	Hobgood			Scotland Neck			West Enfield			Weldon		
	CEW	GSB	BSB	CEW	GSB	BSB	CEW	GSB	BSB	CEW	GSB	BSB
July 17	-	1	-	-	-	-	-	-	-	-	-	-
July 19	-	-	-	-	-	-	-	-	-	-	-	-
July 21	-	-	-	-	-	-	10	0	0	5	0	0
July 24	5	2	-	7	4	-	8	-	4	10	3	-
July 26	55	-	-	8	7	-	10	3	-	16	3	-
July 28	-	-	-	11	-	-	23	-	-	-	-	-
July 31	1	-	-	16	-	-	27	-	-	16	-	-
August 2	11	-	-	22	-	-	26	-	-	-	-	-
August 4	70	-	-	25	-	-	29	-	-	4	-	-
August 7	22	-	-	32	-	-	28	-	-	10	-	-

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

From: Keith B. Walters, Agricultural Extension Agent, Hoke County

Light Trap Data From Hoke County

```
*****
                        Boyles Farm
                        *****
Date           Moths           GSB           BSB
*****
June 28         28             4             0
June 30         72             26            0
July 3           -             -             -
July 5          13             7             0
July 7          41             9             13
July 10         32             7             0
July 12         16             5             1
July 14         17             33            4
July 17         12             22            3
July 19         27             27            2
July 21         39             14            3
July 24         23             14            11
July 26        223             9             17
July 28        198             7             7
July 31        327             23            18
August 2       276             32            18
August 4       147             11             2
August 7       353             36             8
August 9        78             6             0
August 11      167             7             0
August 14      319             13             0
August 16       64             12             0
August 18       51             13             0
August 21       96             17             0
August 23       86             7             0
August 25      117             20             0
August 28      243             22             0
August 30      109             10             0
*****
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GSB = green stink bugs; BSB = brown stink bugs

Location of trap is Shannon Road, Shannon.
Trap monitored by Johnny Boyles.

From: Curtis D. Fountain, County Extension Director, Jones County

Light Trap Data From Jones County

```
*****
                        Number of Adult Insects
                        *****
Date           BW           GSG           BSB           HW
*****
July 21         3             3             1             2
July 24         4             1             0             2
July 26         6             1             7             3
July 28        63             0             0             10
*****
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July 31	140	1	6	7
August 2	244	4	1	10
August 4	265	2	4	6
August 7	25	1	2	9
August 9	28	1	0	3
August 11	16	0	0	5
August 14	2	0	0	3
August 16	1	0	0	2
August 18	1	0	0	2
August 21	5	0	0	5
August 23	6	3	0	6
August 25	12	0	0	5

Trap Location: Comfort
Monitored by: Morris and Brett Pike

BW = bollworms; GSB = green stink bugs;
BSB = brown 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 7								
June 8	0	0	0	0	0	0	0	0
June 9	0	0	1	0	0	0	0	0
June 10	0	0	1	0	0	0	0	0
June 11	0	0	0	0	1	6	1	0
June 12	0	0	1	1	0	0	2	0
June 13	0	1	2	0	0	0	0	0
June 14	0	0	3	0	0	0	0	0
June 15	0	0	1	0	0	0	0	0
June 16	0	0	2	2	0	3	2	0
June 17	0	0	0	0	0	1	0	0
June 18	0	0	0	0	0	2	0	0
June 19	0	0	0	0	1	3	0	0
June 20	1	1	0	0	0	2	0	0
June 21	1	0	0	0	0	1	2	1
June 22	0	0	0	1	2	0	0	0
June 23	1	0	1	0	0	5	7	1
June 24	0	3	2	0	0	1	1	0
June 25	0	4	1	0	0	2	2	0
June 26	0	5	0	0	1	1	1	1
June 27	1	2	0	0	0	10	0	0
June 28	0	2	0	0	0	2	0	1
June 29	1	1	0	1	0	5	0	3
June 30	0	6	2	0	0	3	1	0

July

```

*****
                        Number of Adult Insects
*****
Date      HW      CEW      ECB      AW      AWC      GSB      BSB      TBW
*****
July 1    1      12      1      0      0      2      0      0
July 2    1      6       0      0      1      0      0      0
July 3    0      4       0      0      0      2      2      0
July 4    0      3       0      0      0      7      0      0
July 5    0      4       0      1      0      4      1      0
July 6    0      5       0      0      0      4      0      0
July 7    0      8       3      1      2      1      0      1
July 8    0      3       0      0      1      3      0      1
July 9    0      3       0      0      0      0      0      0
July 10   0      2       0      0      0      1      0      0
July 11   0      5       0      0      1      3      0      0
July 12   0      12      0      0      1      6      0      0
July 13   0      5       0      0      1      3      0      0
July 14   0      12      0      0      4      7      0      0
July 15   0      9       0      1      0      2      0      0
July 16   0      6       1      0      0      2      0      0
July 17   1      8       4      1      1      4      0      0
July 18   2      14      3      1      2      13     1      0
July 19   0      12      12     1      7      20     1      3
July 20   1      7       9      1      7      2      0      2
July 21   2      12      8      1      5      3      0      1
July 22   light inadvertently unplugged
July 23   1      4       5      1      1      2      0      1
July 24   4      23      2      1      5      0      0      4
July 25   9      59      2      1      1      29     0      5
July 26   6      44      4      1      3      3      0      3
July 27   1      105     9      4      0      17     1      4
July 28   5      99      5      3      4      8      0      7
July 29   2      41      2      1      1      5      0      0
July 30   3      177     7      2      4      8      0      3
July 31   1      158     8      1      3      10     2      6
*****

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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      Palmyra
*****
Date      BW      GSB      BSB      BW      GSB      BSB      BW      GSB      BSB
*****
July 17   8      1      0      3      8      0      1      8      0
July 19   5      0      0      6      10     0      0      0      0
July 21   6      2      0      3      5      0      -      -      -
July 24  23      0      0     40      7      0      1      7      0

```

July 26	21	3	0	8	6	0	2	3	0
July 28	19	7	0	8	5	0	-	-	-
July 31	46	17	2	20	10	0	2	3	0
August 2	78	8	0	22	8	1	15	15	0
August 4	60	2	0	65	8	1	131	31	0
August 7	27	14	2	21	0	0	62	1	0
August 9	53	23	0	34	4	0	51	10	0
August 11	28	6	0	27	3	1	16	33	0
August 14	14	1	0	16	0	0	21	1	0
August 16	7	4	0	21	4	0	23	9	0
August 18	17	5	0	18	1	0	26	1	0
August 21	10	6	0	33	2	0	29	13	0
August 23	17	5	0	58	1	0	64	8	0
August 25	34	1	0	95	0	0	94	7	0
August 28	35	7	0	148	2	0	26	10	0
August 30	63	2	0	250	4	0	31	16	0
September 1	44	3	0	35	2	0	55	5	0

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

From: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data From Northampton County

Number of Adult Insects

Date	Woodland			Conway			'Neck			Seaboard			Gaston			Jackson		
	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR
July 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	84	6
July 19	-	-	-	-	-	-	-	-	-	4	10	0	-	-	-	0	124	4
July 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July 24	-	-	-	2	0	0	26	17	0	30	0	0	-	-	-	61	140	3
July 26	1	0	0	10	12	1	29	13	0	40	6	0	-	-	-	83	11	1
July 28	3	4	2	9	8	0	24	19	0	31	1	0	32	0	0	59	72	3
July 31	3	22	2	10	19	4	50	35	0	72	12	0	53	0	0	208	191	2
August 2	1	11	1	9	18	1	53	41	0	57	12	2	22	2	0	103	94	2
August 4	4	13	1	17	9	4	49	58	0	46	8	2	24	0	0	157	135	5
August 7	0	0	0	3	4	0	53	8	0	-	-	-	11	0	0	199	20	0
August 9	22	1	0	6	0	0	58	9	0	29	0	0	-	-	-	271	20	0
August 11	13	0	0	4	2	0	49	9	0	7	0	0	-	-	-	227	8	0
August 14	8	0	0	6	0	0	19	2	0	9	0	0	-	-	-	204	1	0
August 16	11	1	0	4	2	0	34	6	0	-	-	-	-	-	-	227	28	0
August 18	7	0	0	12	2	0	19	1	0	-	-	-	-	-	-	145	9	0
August 21	8	2	0	11	3	0	33	7	0	-	-	-	-	-	-	212	129	0
August 23	6	0	0	23	19	0	34	3	0	-	-	-	-	-	-	154	34	0
August 25	6	2	1	13	4	0	43	17	0	-	-	-	-	-	-	105	17	0
August 28	18	3	0	52	0	0	51	23	0	-	-	-	-	-	-	146	23	0
August 30	50	8	0	33	4	0	-	-	-	-	-	-	-	-	-	201	45	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: Bryant M. Spivey, Agricultural Extension Agent, Onslow County

Light Trap Data from Onslow County

```
*****
                        Number of Adult Insects
                        *****
Date           Bollworms           GSB           BSB
*****
July 3         15                   7             0
July 5         43                   17            0
July 7         21                   2             0
July 10        18                   0             1
July 12        16                   4             3
July 14        22                   20            0
July 17        93                   7             0
July 19        32                   7             2
July 21        50                   6             0
July 24        156                  14            0
July 26        203                  12            1
July 28        246                  13            2
July 31        345                  8             0
August 2       125                  6             0
August 4       101                  6             2
August 7       59                   3             0
August 9       68                   6             0
August 11      20                   0             0
August 15      28                   8             0
August 18      20                   1             0
August 21      55                   7             0
August 23      30                   5             0
*****
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GSB = green stinks bugs; BSB = brown stink bugs

Insect counts are from a single black light trap located approximately 1 mile east of Richlands.

From: Lewis Smith, County Extension Director, Perquimans County

Light Trap Data From Perquimans County

```
*****
                        No. of Adult Insects
                        *****
Date           Bollworms
*****
July 28         1
July 29         9
July 30        29
August 1        80
August 2        96
August 3        77
August 4        87
August 5        48
August 6        21
August 7        11
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August 8 22
 August 9 14
 August 10 6
 August 11 6

From: Everett Davis, County Extension Director, Robeson County

Light Trap Data From Robeson County

 Number of Adult Insects

Date	BW	GSB	BSB	FAW
July 8-9	7	8	1	4
July 10	4	9	0	0
July 11-12	7	12	1	0
July 13	5	5	0	1
July 14	27	12	1	3
July 15-16	62	21	2	2
July 17	63	19	2	1
July 18	102	25	1	6
July 19	162	21	1	4
July 20	211	27	2	6
July 21	258	22	3	6
July 23-23	349	32	2	7
July 24	312	15	2	9
July 25	315	21	0	16
July 26	481	20	0	23
July 27	387	15	1	19
July 28	457	18	0	21
July 29-30	761	32	3	23
July 31	536	32	2	11
August 1 #	89	6	0	0
August 2	137	18	1	1
August 3	194	23	0	1
August 4	162	11	0	2
August 5-6	209	12	1	3
August 7	93	8	0	2
August 8	-	-	-	-
August 9-10	219	42	2	3
August 11-13	165	28	1	10
August 14	27	4	0	6

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

Location is Rowland; monitored by Kay McGirt

= field was sprayed

From: Josh Gaddy, Agricultural Extension Agent, Sampson County

Light Trap Data from Sampson County

```

*****
                Number of Adult Insects
                *****
Date            BW      GSB      BSB      THW
*****
June 30                trap set up
July 3             0        4        0        2
July 5             3        9        0        0
July 7             2        6        0        2
July 10            4        8        0        0
July 12            1       11        1        2
July 14            1        5        0        0
July 17            0       23        2        4
July 19            1       15        5        9
July 21            11       12        0       18
July 24            20        5        0       15
July 26           105       10        3        6
July 28           127       75       13       16
July 31           150       21        4        6
August 2           101       31       18        6
August 4           158       28       10        8
August 7            33       60        8        9
August 9            67       11        1        2
August 11           60       30        2        5
August 14           71        5        1        5
August 16           23        5        1        5
August 18           21       12        0       10
August 21           37       31        1        6
August 23           28        3        0        8
August 25           56       21        2       11
August 28           95        8        0       18
August 30           95       17        4        9
*****

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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
                *****
                Gibson                John's                Laurinburg
                *****                *****                *****
Date            BW  GSB  BSB  FAW      BW  GSB  BSB  FAW      BW  GSB  BSB  FAW
*****
July 7           -   -   -   -         1   1   2   -         2   4   -   -
July 10          11  3   -   -         9   -   -   -         6   7   1   -

```

July 12	12	17	-	-	9*	2*	-	-	3	3	1	-
July 14	16	38	-	-	21	5	-	-	3	10	-	-
July 17	16	26	1	-	54	23	1	-	24	14	3	-
July 19	24	17	-	-	70	7	-	-	18	10	2	-
July 21	94	5	-	-	138	7	-	-	75	5	-	-
July 24	263	20	-	-	198	1	-	-	190	15	-	-
July 26	352	2	-	-	292	3	-	-	230	5	-	-
July 28	232	17	2	-	145	4	1	-	418	19	-	-
July 31	411	28	-	-	593	5	1	-	408	16	-	-
August 2	124	36	-	-	375	30	2	-	336	7	1	-
August 4	212	15	-	-	275	30	1	-	224	10	-	-
August 7	181	14	-	-	94	3	-	-	111	7	-	-
August 9	102	1	-	-	109	2	-	-	129	1	-	-
August 11	194	4	-	-	145	1	-	-	113	5	-	-
August 14	69	2	-	-	78	-	-	-	57	2	-	-
August 16	58	23	-	-	43	3	1	-	37	-	3	-
August 18	19	2	-	-	71	1	-	-	27	-	-	-
August 21	118	20	-	-	127	6	1	-	47	3	2	-
August 23	180	12	-	-	117	1	-	-	146	1	3	-
August 25	156	9	-	-	191	1	-	-	237	1	-	-
August 28	57	9	-	-	274	2	1	-	99	2	1	-
August 30	136	8	-	-	564	5	-	-	61	2	-	-

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

Trap Location: Gibson, Johns and Laurinburg
Monitored by: Jim Ellis, David Morrison,
Percy Rachels, Rusty Muse and T. G. Gibson

* light unplugged

From: Kevin Johnson, Agricultural Extension Agent, Wayne County

Light Trap Data from Wayne County

Number of Adult Insects

Date	Seven Springs				Goldsboro			
	GSB	BSB	BW	THW	GSB	BSB	BW	THW
June 26	-	-	-	-	43	3	10	6
June 28	-	-	-	-	81	4	-	-
June 29	-	-	-	-	131	11	4	1
July 3	-	-	-	-	91	9	5	2
July 5	-	-	-	-	63	10	-	-
July 7	-	-	-	-	47	4	2	2
July 10	-	-	-	-	15	0	5	3
July 12	2	1	-	-	17	3	3	1
July 14	2	-	8	-	29	4	-	-
July 17	15	2	20	-	111	11	2	5
July 19	-	-	-	-	37	4	13	3
July 21	3	-	37	7	17	-	18	2
July 24	1	2	62	3	47	2	78	11
July 26	11	1	100	4	32	-	157	8

July 28	9	-	105	-	66	5	209	3
July 31	10	1	125	10	174	10	264	8
August 2	25	8	235	3	134	12	238	5
August 4	5	6	130	6	174	18	224	3
August 7	7	3	250	5	101	9	174	6
August 9	52	3	96	3	14	2	35	1
August 11	-	-	-	-	20	4	30	2
August 14	-	-	-	-	10	1	19	0
August 16	-	-	-	-	32	2	72	3
August 18	-	-	-	-	25	2	53	0
August 21	-	-	-	-	47	7	71	5
August 23	-	-	-	-	25	9	80	2
August 25	-	-	-	-	5	0	30	2

GSB = green stink bugs; BSB = brown stink bugs;

BW = budworms; THW = 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	BS	GS	CEW	BS	GS	CEW	BS	GS	CEW	BS	GS
July 14	5	1	16	-	-	-	-	-	-	-	-	-
July 17	13	2	2	-	-	-	-	-	-	9	0	23
July 19	6	0	2	5	0	0	2	0	1	8	0	18
July 21	6	0	0	7	0	1	3	0	2	2	0	3
July 24	30	0	1	11	2	5	14	0	2	17	0	4
July 26	33	0	3	21	0	0	81	0	1	51	0	3
July 28	36	0	0	15	0	2	255	0	0	66	0	0
July 31	60	0	1	66	0	9	84	0	7	61	0	20
August 2	46	0	0	71	0	2	44	0	1	34	0	9
August 4	49	0	0	51	0	3	31	0	0	66	1	24
August 7	73	0	0	26	0	0	3	0	2	40	0	9
August 9	18	1	1	8	0	0	2	0	0	18	0	8
August 11	26	1	2	17	0	0	0	0	0	27	1	1
August 14	7	0	0	12	0	0	1	0	0	6	0	0
August 16	20	0	0	6	0	2	0	0	2	10	0	14
August 18	21	0	1	26	0	0	3	0	0	15	0	2

Locations: Lucama, Pender's Crossroads, Sims and Fountain

Monitored by: Chris Bass, Adam Gardner, Thad Sharpe, IV and Barbara Smith

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