

North Carolina Pest News



Departments of Entomology and Plant Pathology

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In This Week's Issue . . .

CAUTION !

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

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See current and archived issues of the *North Carolina Pest News* on the Internet at: <http://ipm.ces.ncsu.edu/2014-north-carolina-pest-news-archive/>

ANNOUNCEMENTS AND GENERAL INFORMATION

Field Days Scheduled

Sweet Potato Field Day is on September 18, 2014, at Horticultural Crops Research Station, 2450 Faison Highway, Clinton, North Carolina. The field

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day will be from 3:30 to 7:00 p.m. For more information, contact Jonathan Schultheis at 919-515-1225.

FIELD AND FORAGE CROPS

From: Aurora Toennisson, Research Associate, and Clyde Sorenson and Hannah Burrack, Extension Entomologists

Tobacco Insect Scouting Report – September 5, 2014

We are at week nineteen of scouting and harvesting is happening at all locations. The Piedmont site continued with harvesting this week and the Eastern 3 and 4 locations have completed harvesting this week. Since harvesting is completed for those sites, they have been removed from the scouting report. None of our grower plots have hornworms or flea beetles above threshold. We did see a few budworms present on suckers, but they were not above threshold.



View down a row of our Eastern 1 site.

Scouting Report, Eastern 1 – Grower Standard Field

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infested plants	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 – No treatment	0.84 flea beetles/plant – No treatment	0% budworm infested plants – No treatment	0 – No treatment	0 – No treatment	0.06 stilt bugs/plant 0.02 stink bugs/plant

Scouting Report, Eastern 2 – IPM Field

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infested plants	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 – No Treatment	2.56 flea beetles/plant – No treatment	4% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	0.02 stink bugs/plant

Scouting Report Piedmont 1 – Grower Standard Field

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infested plants	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 aphid infested plants – No treatment	1.45 flea beetles/plant – No treatment	0% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No treatment	0.025 stilt bugs/plant

Scouting Report, Piedmont 2 – IPM Field

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infested plants	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 – No Treatment	1.78 flea beetles/plant – No treatment	0% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	0.06 stilt bugs/plant 0.02 stink bugs/plant

Here are the scouting reports from the control plots for our experiments at the [Upper Coastal Plain Research Station](#) near Rocky Mount, North Carolina, and the [Lower Coastal Plain Research Station](#) near Kinston, North Carolina. For some of these experiments, the control plots receive no insecticide treatments for the entire season. For some of the experiments, we are interested in only caterpillar pests so all plants in the experiment, including the control plots, are treated in the greenhouse with imidacloprid to prevent other early season pests.

On Station, Kinston – Control plants with no insecticide treatment

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infestation	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0% aphid infested plants – No Treatment	not counted	0% budworm infested plants – No treatment	0.09 hornworms/plant – No treatment	0 – No Treatment	0 parasitized hornworms/plant

On Station, Kinston – Control plants treated with imidacloprid

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infestation	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 – No Treatment	not counted	0% budworm infested plants – No treatment	0.135 hornworms/plant – No treatment	0 – No Treatment	0 parasitized hornworms/plant

On Station, Rocky Mount – Control plants with no insecticide treatment

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infestation	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 aphid infested plants – No Treatment	not counted	0% budworm infested plants – No treatment	0.015 hornworms/plant – No treatment	0 – No Treatment	0.03 parasitized hornworms/plant

On Station, Rocky Mount – Control plants treated with imidacloprid

Insect observation	No. aphid infested plants	Flea beetles per plant	Percent tobacco budworm infestation	Hornworms per plant	Percent cutworm damaged plants	Other insects
Treatment needed?	0 – No Treatment	not counted	0% budworm infested plants – No treatment	0.005 hornworms/plant – No treatment	0 – No Treatment	0.005 parasitized hornworms/plant

More Information

To see last week's scouting report, click [here](#).

(Originally posted at: <http://tobacco.ces.ncsu.edu/2014/09/tobacco-insect-scouting-report-september-5-2014/>)

From: Jim Dunphy, Extension Soybean Specialist, Crop Science, and Steve Koenning, Extension Plant Pathologist

Soybean Rust Update: September 4, 2014

Asiatic soybean rust was confirmed September 4 on soybeans in Macon County, Alabama. That puts rust a little closer to Murphy, but not to Charlotte or the rest of the state. To date, the closest rust to Murphy is approximately 195 miles (Macon County, Alabama), and the closest to Charlotte is approximately 320 miles (Leon County, Florida and Macon County, Alabama). Rust has not been confirmed on soybeans within 300 miles of Elizabeth City, Fayetteville, Raleigh, Washington, Wilmington, or Winston-Salem, North Carolina.

We do not consider these finds to pose any imminent threat to North Carolina soybeans. Soybeans with developing seeds in the top of the plants are probably safe from rust anyway.

The current status of rust in the U.S. can be found at <http://sbr.ipmpipe.org>.

ORNAMENTALS AND TURF

From: Rick Brandenburg and Mike Waldvogel, Extension Entomologists

Scoliid Wasps Hovering Over Lawns

We have had a number of inquiries about wasps hovering over lawns and other turf areas. Bluewinged wasps, *Scolia dubia*, are black-colored insects with metallic blue highlights on the wings and thorax. The abdomen has two yellow spots near the middle of the abdomen and the tip is a red-brown color. Bluewinged wasps are in the family of scoliid wasps that are all dark, relatively large, robust, slightly hairy insects with contrasting yellow spots or other markings. Scoliid wasps are usually considered beneficial insects because they help control green June beetle and other beetle grubs. They are present in North Carolina from June to October, but they are most abundant during August (weather can push the early or later).

The wasps are often seen hovering a few inches above lawns, flying in loops and figure eight patterns. The female wasp digs through the soil in search of grubs, burrowing her own tunnels or following those made by the grubs. Upon locating a grub, she stings and paralyzes it. After laying her egg, she continues searching for other grubs and continues the cycle of stinging and burying the prey and laying an egg. When the wasp larva hatches from the egg, it consumes the beetle grub alive. They complete their development in the soil and this next generation emerges as adults next fall.

Sometimes scoliid wasps are quite abundant and conspicuous as they swarm during their mating dances. Later, females spend more time digging for grubs and the swarms are not as noticeable. These wasps forage for nectar and sometimes sleep on plants. As the nights cool, they burrow under the soil at night. Scoliids are solitary wasps rather than social wasps like the yellow jackets, hornets, etc., and there are no large colonies supported by workers. Scoliids do not have a nest-guarding instinct and these wasps rarely, if ever, sting people.

No control measures are suggested or really needed. Let them continue to do you a favor by reducing grub populations.

For additional information and a picture of the wasp, visit <http://www.ces.ncsu.edu/Insects/O&T/lawn/note12/note12.html>

INSECT TRAP DATA

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

Light Trap Data from Bertie County

```

*****
                                Hexlana
                                TNT
                                Woodard
                                PBRs
                                *****
Date      CEW GSB   CEW GSB   CEW GSB   CEW GSB
*****
July 28      5  6     4 27     -  -     -  -
July 30      2  0     2  3     2  1     -  -
July 31      6  0     -  -     -  -     -  -
August 4      -  -     24 45     -  -     7  0
August 5     14 14     -  -     -  -     -  -
    
```

August 6	1	0	-	-	-	-	-	-
August 7	7	0	-	-	-	-	-	-
August 8	15	6	-	-	-	-	-	-
August 11	12	2	17	0	-	-	-	-
August 12	0	0	-	-	6	1	12	0
August 13	-	-	-	-	9	19	-	-
August 14	5	5	-	-	17	0	-	-
August 15	2	0	-	-	9	1	8	0
August 18	0	2	-	-	19	14	-	-
August 19	0	9	-	-	8	9	-	-
August 20	0	6	-	-	20	9	-	-
August 21	0	2	-	-	24	10	-	-
August 22	3	27	-	-	-	-	-	-
August 23	-	-	-	-	8	6	-	-
August 24	-	-	-	-	5	4	-	-
August 25	3	10	4	5	8	3	-	-
August 26	15	5	-	-	11	0	-	-
August 27	0	1	-	-	21	0	-	-
August 29	0	8	1	1	0	1	-	-
September 3	1	21	-	-	-	-	-	-

Abbreviations: CEW = corn earworms; GSB = green stink bugs

From: Mike Carroll, Agricultural Extension Agent, Craven County

Light Trap Data from Craven County

Number of Adult Insects

Date	BW*	GSB	BSB	AW	HW
July 16					
July 18	13	0	0	0	1
July 21	28	0	0	0	2
July 23	30	1	0	0	1
July 25	18	1	0	0	1
July 28	105	1	0	0	2
July 30	76	1	0	0	1
August 1	136	1	0	2	1
August 4	259	1	0	2	2
August 6	80	2	0	0	0
August 8	49	0	0	0	1
August 11	65	0	0	1	1
August 14	18	2	0	1	1
August 17	40	0	0	0	1
August 19	76	3	0	2	3
August 20	32	2	0	2	1
August 25	85	1	0	0	3
August 27	36	2	0	2	2

Abbreviations: BW* = bollworms; GSB = green stink bugs;
BSB = brown stink bugs; AW = true armyworms;

HW = tobacco hornworms

*Bollworms reflect corn earworm and tobacco budworm counts

Cooperator: Cove City Fertilizer

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

Light Trap Data from Edgecombe County

```

*****
                        Number of Adult Insects
*****
West Edgecombe          Coakley          Lawrence
*****                *****                *****
Date                   CEW  BSB  GSB    CEW  BSB  GSB    CEW  BSB  GSB
*****
July 11                 -   -   -      0   3   6      -   -   -
July 14                 0   1   0      1   0   1      -   -   -
July 16                 0   0   0      0   0   3      -   -   -
July 18                 0   0   0      -   -   -      -   -   -
July 21                 0   1   0      -   -   -      -   -   -
July 23                 1   0   0      5   0   1      -   -   -
July 25                 1   0   1      8   2   6      -   -   -
July 28                 14  1   1     15  0   1      -   -   -
July 30                 5   0   0      -   -   -      -   -   -
August 1                12  0   0     43  0   1      -   -   -
August 4                20  0   0     84  0   1      -   -   -
August 6                 9   0   0     35  0   0      -   -   -
August 8                15  0   1     14  0   3      -   -   -
August 11               14  0   0     12  0   2      -   -   -
August 13                8   1   1      -   -   -      -   -   -
August 15               13  0   0      9   0   1      -   -   -
August 18               37  0   1      -   -   -      -   -   -
August 19                -   -   -     25  0   7      -   -   -
August 20               16  0   0      -   -   -      -   -   -
August 22               10  0   1      8   0   3      -   -   -
August 25                8   0   0      -   -   -      -   -   -
August 27                1   0   0      -   -   -      -   -   -
August 29                1   0   0      -   -   -      -   -   -
September 1             3   0   0      -   -   -      -   -   -
September 3             0   0   0      -   -   -      -   -   -
September 5             0   0   0      -   -   -      -   -   -
*****
    
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Abbreviations: CEW = corn earworms;
 BSB = brown stink bugs; GSB = green stinks bugs

From: Arthur Whitehead, Jr., County Extension Director, Halifax County

Light Trap Data from Halifax County

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*****
                Hobgood                Dawson
                *****                *****
Date            CEW  BSB  ECB  GSB  HW  CEW  BSB  ECB  GSB  HW
*****
July 24         7   -   0   -   0   -   -   -   -   -
July 26        19   -   0   -   0   -   -   -   -   -
August 6        4   0   -   0   -  43   1   -   9   -
*****
    
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Abbreviations: CEW = corn earworms;
 ECB = European corn borers; HW = hornworms

From: Alan A. Harper, Lenoir County

Light Trap Data from Lenoir County

June

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*****
                Number of Adult Insects
                *****
Date            HW    CEW    ECB    AW    AWC    GSB    BSB    TBW
*****
June 3         ----- Put up light trap -----
June 4         0     0     0     0     0     2     1     0
June 5         0     0     0     0     0     0     0     0
June 6         0     0     0     0     0     2     0     0
June 7         0     0     0     0     0     0     0     0
June 8         0     0     0     0     0     0     0     0
June 9         0     0     0     0     0     0     0     0
June 10        0     0     0     0     0     3     0     0
June 11        0     0     0     0     0     1     0     0
June 12        0     0     0     0     0     1     1     0
June 13        0     1     0     0     1     0     0     0
June 14        0     0     0     0     0     0     0     0
June 15        0     1     0     0     1     0     0     0
June 16        0     0     0     0     0     0     0     0
June 17        0     1     0     0     1     0     0     1
June 18        0     0     0     0     0     0     0     0
June 19        0     0     0     0     0     0     0     1
June 20        0     2     0     0     0     0     0     0
June 21        0     2     0     0     1     0     0     0
June 22        0     1     0     0     0     1     0     0
June 23        0     0     0     1     1     0     0     0
June 24        0     1     0     0     0     0     0     1
June 25        0     3     0     2     1     1     0     0
June 26        0     1     0     1     0     1     0     0
June 27        0     1     0     0     0     0     0     0
June 28        0     2     0     1     1     0     0     0
    
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June 29      0      0      0      0      2      0      0      0
June 30      0      0      0      0      1      0      0      1
*****
    
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July

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*****
                Number of Adult Insects
*****
Date           HW      CEW      ECB      AW      AWC      GSB      BSB      TBW
*****
July 1         0       2       0       0       1       0       0       0
July 2         0       1       0       0       0       0       0       0
July 3         0       1       0       0       1       0       0       1
July 4         0       2       0       0       0       0       0       0
July 5         0       1       0       1       0       0       0       0
July 6         0       1       0       0       0       0       0       1
July 7         0       0       0       0       0       0       0       0
July 8         0       0       0       0       0       0       0       0
July 9         0       0       0       0       0       1       0       0
July 10        0       0       0       0       0       1       0       0
July 11        0       2       0       0       0       2       0       0
July 12        0       1       0       1       0       1       0       0
July 13        0       0       0       0       0       0       0       0
July 14        0       0       0       0       0       0       0       0
July 15        0       1       0       0       0       0       1       1
July 16        0       1       1       0       0       0       0       0
July 17        0       4       0       0       0       1       0       0
July 18        0       1       0       0       2       1       0       0
July 19        1       1       0       0       0       1       0       0
July 20        0       2       0       0       1       2       0       0
July 21        0       7       1       0       1       6       0       0
July 22        1       8       0       0       2       3       0       0
July 23        0       9       1       0       0       3       1       1
July 24        0      11       0       0       0       3       3       0
July 25        0       8       0       0       4       2       1       0
July 26        0      26       0       0       0       5       0       0
July 27        0      18       0       0       2       7       2       0
July 28        0      20       0       1       3       8       7       0
July 29        0      26       0       1       1       2       0       0
July 30        0      36       0       0       1       0       0       0
July 31        0      52       0       1       1       6       0       0
*****
    
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August

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*****
                Number of Adult Insects
*****
Date           HW      CEW      ECB      AW      AWC      GSB      BSB      TBW
*****
August 1       0      36       0       2       0       7       0       1
August 2       0      30       0       1       0       3       1       2
August 3       0      43       0       1       1       3       0       1
August 4       0      46       0       0       0       4       0       1
August 5       0      63       0       1       0       6       0       1
August 6       0      26       0       0       0       5       0       0
    
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August 7	0	33	0	1	0	6	0	2
August 8	0	21	0	0	0	2	1	0
August 9	0	32	0	0	2	5	0	0
August 10	0	15	0	0	1	0	0	0
August 11	0	14	0	0	0	0	0	0
August 12	0	5	0	0	0	3	0	0
August 13	0	15	0	0	0	8	0	0
August 14	0	8	0	0	0	1	0	0
August 15	0	4	2	0	0	0	1	0
August 16	-	-	-	-	-	-	-	-
August 17	0	11	0	0	0	9	0	0
August 18	-	-	-	-	-	-	-	-
August 19	0	8	0	0	0	8	1	0
August 20	-	-	-	-	-	-	-	-
August 21	0	5	0	1	0	3	2	0
August 22	0	3	0	0	0	4	0	0
August 23	0	7	0	0	0	0	0	0
August 24	0	5	0	0	0	3	0	0
August 25	-	-	-	-	-	-	-	-
August 26	0	6	0	1	0	6	2	0
August 27	0	7	0	0	0	1	1	0
August 28	0	11	0	1	0	9	1	0
August 29	0	8	0	1	0	8	1	0
August 31	0	5	0	0	1	7	0	0

September

Number of Adult Insects

Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
September 2	0	4	0	0	0	9	0	0
September 3	0	4	1	0	1	2	0	0
September 4	0	7	0	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: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data from Northampton County

Number of Adult Insects

Date	Galatia			Seaboard			Woodland			Jackson			
	CEW	GSB	BSB	HW	CEW	GSB	BSB	CEW	GSB	BSB	CEW	GSB	BSB
July 26	-	45	2	2	-	-	-	-	-	-	-	-	-
July 29	7	15	1	-	4	6	0	-	-	-	-	-	-

July 30	0	0	0	-	-	-	-	-	-	-	-	-	-
July 31	0	0	0	-	2	1	0	-	-	-	-	-	-
August 1	0	-	-	-	-	-	-	1	0	0	-	-	-
August 4	49	89	0	-	12	4	0	1	18	0	-	-	-
August 5	23	3	0	-	-	-	-	-	-	-	-	-	-
August 6	10	1	0	-	7	1	0	2	1	0	-	-	-
August 8	-	-	-	-	12	3	0	-	-	-	-	-	-
August 11	-	-	-	-	12	2	0	2	2	0	-	-	-
August 12	-	-	-	-	-	-	-	-	-	-	21	1	0
August 13	2	4	0	-	14	7	0	2	3	0	-	-	-
August 14	3	1	0	-	-	-	-	-	-	-	30	138	0
August 15	-	-	-	-	5	0	0	-	-	-	9	3	0
August 19	5	18	0	-	16	6	0	-	-	-	86	31	1
August 20	4	5	0	-	35	8	0	2	1	0	32	22	0
August 22	-	-	-	-	16	44	0	2	0	0	39	22	0
August 25	7	10	0	-	5	3	0	1	2	0	38	41	1
August 27	-	-	-	-	3	0	0	0	0	0	-	-	-
August 28	-	-	-	-	-	-	-	-	-	-	4	5	0
August 29	-	-	-	-	2	1	0	1	3	0	3	16	1
Sept. 2	1	4	0	-	12	8	0	-	-	-	15	22	22
Sept. 3	-	-	-	-	-	-	-	-	-	-	6	15	0

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

From: Robeson County

Light Trap Data from Robeson County

Number of Adult Insects

Date	CEW	ECB	AWC	AW	GSB	BSB
July 29	43	-	1	-	3	0
July 30	24	2	0	1	0	0
August 1	41	0	0	-	1	0
August 7	21	1	0	2	1	2
August 11	16	2	0	7	0	0
August 21	18	-	4	6	1	0
September 3	9	-	1	10	0	0

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

From: Scotland County Extension Center

Light Trap Data from Scotland County

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*****
                                Number of Adult Insects
*****
                Gibson                John's                Laurinburg
*****                *****                *****
Date            CEW  ECB  GSB  TBW  BSB    CEW  ECB  GSB  TBW  BSB    CEW  ECB  GSB  TBW  BSB
*****
July 23         -   -   -   -   -        -   -   -   -   -        -   -   -   -   -
July 25         5   2   -   -   -        -   -   -   -   -        -   -   -   -   -
July 28         4   4   - 288   -        5   0   - 559   -        2   1   -   55   -
July 30         60  -   0   -   0    273  -   1   -   0        -   -   -   -   -
August 1        74  -   1   -   0     98  -   0   -   0    24  -   0   -   0
August 4       108  -   2   -   0    268  -   1   -   0        -   -   -   -   -
August 5         -   -   -   -   -        -   -   -   -   -    56  -   0   -   0
August 6        34  -   5   -   0     84  -   2   -   1        -   -   -   -   -
August 8         -   -   -   -   -        -   -   -   -   -    22  -   0   -   2
August 11       32  -   1   -   0     58  -   1   -   1    39  -   1   -   1
August 12       80  -   5   -   0        -   -   -   -   -    80  -   2   -   0
August 13        -   -   -   -   -    144  -   1   -   1        -   -   -   -   -
August 14       34  -   3   -   0        -   -   -   -   -    19  -   0   -   0
August 18       27  -   5   -   0    162  -   2   -   1    15  -   1   -   0
August 21       17  -   3   -   3     71  -   1   -   2     5  -   0   -   0
August 25        -   -   -   -   -    143  -   5   -   2    13  -   0   -   1
August 27       34  -   5   -   0        -   -   -   -   -    27  -   2   -   0
Sept. 3         44  -  19   -   0     34  -   1   -   0    37  -   2   -   1
*****
    
```

Abbreviations: CEW = corn earworms; ECB = European corn borers;
 GSB = green stink bugs; TBW = tobacco budworms; BSB = brown stink bugs

From: Washington County

Light Trap Data from Washington County

```

*****
                                Number of Adult Insects
*****
Date            CEW    GSB
*****
July 15         1      1
July 18         4      2
July 25         3      -
*****
    
```

Abbreviations: CEW = corn earworms;
 GSB = green stink bugs

From: Tyler Whaley, Agricultural Extension Agent, Wayne County

Light Trap Data from Wayne County

```

*****
                        Number of Adult Insects
                        *****
                                Goldsboro
                                *****
Date                CEW    GSB    BSB    HW
*****
July 7                -     2     -     -
July 9                -     1     -     -
July 11               -     1     -     -
July 14               -     2     -     -
July 16                4     6     2     -
July 18                1     2     1     -
July 21                5     5     1     2
*****
    
```

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

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

Light Trap Data from Wilson County

```

*****
                        Number of Adult Insects
                        *****
                                Kenly
                                *****
                                Fountain
                                *****
                                Pender's
                                *****
Date                CEW  ECB  GSB  BSB  HW  CEW  ECB  GSB  BSB  HW  CEW  ECB  GSB  BSB  HW
*****
July 23                1   -   1   0   -   12  0   -   -   1   -   -   -   -   -
July 25                -   -   -   -   -   20  5   -   -   7   -   -   -   -   -
July 26                3   0   -   -   1   -   -   -   -   -   -   -   -   -   -
July 28                3   0   -   -   3   5   -  29  5   3   -   -   -   -   -
July 30                2   -   0   0   -   -   -   -   -   -   1   -   0   0   -
August 1               3   -   0   0   -   6   -  10  0   -   9   -   0   0   -
August 4              22   -   0   0   -  25   -  16  3   -  31   -   6   2   5
August 6               -   -   -   -   -  18   -  23  6   -  45   -   4   0   1
August 7              11   -   0   0   -   -   -   -   -   -   -   -   -   -   -
August 8               3   -   0   0   -  17   -  19  0   -  18   -   6   0   -
August 11              4   -   1   0   -  35   -  19  0   -  64   -   4   2   -
August 13              4   -   1   0   -  10   -  29  3   -  16   -   2   0   -
August 15              5   -   0   0   -   -   -   -   -   -  24   -   0   0   -
August 16              -   -   -   -   -   6   -   2   0   -   -   -   -   -   -
August 18              6   -   1   0   -  21   -  75  6   -  26   -   5   4   3
August 20              9   -   0   0   -  13   -  35  1   -  76   -   2   0   -
August 22              3   -   2   0   -  13   -  46  3   -  32   -   0   0   6
August 25              8   -   0   0   -   2   -  13  1   -   3   -   0   0   4
August 27              -   -   -   -   -   0   -   0   0   -   3   -   0   0   2
August 28              3   -   0   0   -   -   -   -   -   -   -   -   -   -   -
    
```

August 29	1	-	0	0	-	2	-	8	2	-	6	-	0	0	-
August 31	3	-	13	0	-	-	-	-	-	-	6	-	0	0	-
Sept. 2	-	-	-	-	-	8	-	17	0	-	-	-	-	-	-
Sept. 3	3	-	4	0	-	-	-	-	-	-	1	-	0	0	-
Sept. 5	2	-	0	0	-	-	-	-	-	-	0	-	0	0	-

Abbreviations: CEW = corn earworms; ECB = European corn borers;
GSB = green stink bugs; BSB = brown stink bugs; HW = hornworms

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.