

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

Tri-County Corn Field Day (Stanly County) will be held on Monday, August 18, 2014, at 7:30 a.m., Keith Hill Farm, 8156 Hill Ford Road, Oakboro, NC.

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Tri-County Corn Field Day (Union County) will start at 7:30 a.m. on Tuesday, August 19, 2014, at Everette Little Farm (at the end of Sugar and Wine Road, right before Army Road, just outside of New Salem area).

Bertie County Agricultural Research Tour will be held on Wednesday, August 20, 2014, at 9:00 a.m., Peanut Belt Research Station, Lewiston-Woodville, NC. Registration starts at 8:30 a.m.

FIELD AND FORAGE CROPS

From: Hannah Burrack, Extension Entomologist, and Cameron McLamb, Student Working

Tobacco Insect Scouting Report – August 15, 2014

It is week sixteen of our weekly scouting report and harvest has begun! Most sites are beginning to harvest and some are close to a second priming in the next one to two weeks. Flea beetle pressure still remains relatively low at all of our sites, while hornworm pressure has increased at the Rocky Mount Research Station.



Tobacco plant almost ready for harvest at our research station in Rocky Mount. Photo: Cameron McLamb.

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	1.24 flea beetles/plant – No treatment	6% budworm infested plants – No treatment	0 – No treatment	0 – No treatment	0.04 stilt bugs/plant 0.06 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	1.4 flea beetles/plant – No treatment	2% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	0.06 stilt bugs/plant 0.06 stink bugs/plant

Scouting Report, Eastern 3 – 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	4.4 flea beetles/plant – No treatment	0% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No treatment	0.03 stink bugs/plant

Scouting Report, Eastern 4 – 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	1.9 flea beetles/plant – No treatment	0 tobacco budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	0.13 stilt bugs/plant 0.05 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	0.68 flea beetles/plant – No treatment	0% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No treatment	0.05 parasitized budworms/plant 0.13 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	1.06 flea beetles/plant – No treatment	0% tobacco budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	0.04 stilt bugs/plant

Here are the scouting reports from the control plots for our experiments at the [Upper Coastal Plain Research Station](#) near Rocky Mount, NC, and the [Lower Coastal Plain Research Station](#) near Kinston,

NC. For some of these experiments, the control plots received 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	0 beetles/plant – No treatment	0% budworm infested plants – No treatment**	0.34 hornworms/plant – No treatment	0 – No Treatment	0.16 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	0 beetles/plant – No treatment	0% budworm infested plants – No treatment**	0.09 hornworms/plant – No treatment	0 – No Treatment	0.13 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 – No Treatment	0 beetles/plant – No treatment	0% budworm infested plants – No treatment	0.1 hornworms/plant – No treatment	0 – No Treatment	0.1 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	0 – No treatment	0% budworm infested plants – No treatment	0.03 hornworms/plant – No treatment	0 – No Treatment	0.03 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 – No Treatment	0 – No treatment	0% budworm infested plants – No treatment	0 – No treatment	0 – No Treatment	1% plants infested with TSWV

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	0 – No treatment	4% budworm infested plants – No treatment	0– No treatment	0 – No Treatment	1% plants infested with TSWV

More Information

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

(Originally posted at: <http://tobacco.ces.ncsu.edu/2014/08/tobacco-insect-scouting-report-august-15-2014/>)

From: Steve Koenning, Extension Plant Pathologist

Physiological Scorch – Is it Sudden Death Syndrome (SDS), Stem Canker, Black Root Rot (CBR), Brown Stem Rot, or Something Else?

We are receiving soybean samples in the North Carolina State University Plant Disease and Insect Clinic that have symptoms of Physiological Scorch (Figure 1). Most of the scorch in these samples is due to SDS or Sudden Death Syndrome, but numerous diseases can cause similar symptoms. Regardless of the cause, this symptom is indicative of a problem with the vascular system once soybean has shifted to the reproductive phase. Usually “Scorch” is the result of a root-rot such as SDS, CBR, decates stem borer, or Phytophthora root rot. Fungicide sprays will not impact these problems at all and should be avoided. Below are links to disease notes that will explain how to differentiate these diseases and what action to take in the future.

<http://www.ces.ncsu.edu/depts/pp/notes/Soybean/soy007/soy007.htm>

<http://www.ces.ncsu.edu/depts/pp/notes/Soybean/soy005/soy005.htm>



Figure 1. Physiological scorch symptoms.

Frogeye Leaf Spot, Target Spot, and Stem Canker

Target spot of soybean and frogeye leaf spot have both been identified in North Carolina this year. Many cultivars are resistant to these diseases so there is no cause for alarm at this time. If the disease is

detected, a fungicide should be applied. If target spot is identified, it warrants an application of a strobilurin fungicide. If frog-eye is identified, then a combination fungicide (Stratego YLD, Fortix, Quadris Top, or Affiance) may be warranted since resistance to strobilurin fungicides was identified last year in Beaufort County. See the [North Carolina Agricultural Chemicals Manual](#) for more information.

Soybean stem canker has been found in the Piedmont and in Martin County. Soybean stem canker must be controlled with varietal resistance. Fungicides rarely impact this disease, especially at this point in the season.

INSECT TRAP DATA

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

Light Trap Data from Bertie County

```

*****
                                Hexlena
                                TNT      Woodard
                                *****
Date      CEW GSB    CEW GSB    CEW GSB
*****
July 28      5   6      4  27      -   -
July 30      2   0      2   3      2   1
*****
    
```

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      ----- Date Initiated -----
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

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

Date	West Edgecombe			Coakley			Lawrence		
	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	-	-	-

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

Date	Hobgood					Dawson				
	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   -
*****
    
```

Abbreviations: CEW = corn earworms;
 ECB = European corn borers; 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 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
June 29        0         0         0         0         2         0         0         0
June 30        0         0         0         0         1         0         0         1
*****
    
```


July

```

*****
                        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
*****
    
```

August

```

*****
                        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
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

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
*****
          Galatia          Seaboard          Woodland          Jackson
*****          *****          *****          *****
Date      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
*****
    
```

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
*****
    
```

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

```

*****
                                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
*****
    
```

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   -
*****
    
```

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.
