

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.

**Stephen J. Toth, Jr.,
editor**

Dept. of Entomology,
North Carolina State
University, Box 7613,
Raleigh, NC 27695

(919) 513-8189 Phone
(919) 513-1114 Fax
steve_toth@ncsu.edu

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FIELD AND FORAGE CROPS

From: Jack Bachelier, Extension Entomologist

Cotton Susceptibility to Insect Damage Down

Last weekend's rainfall helped many cotton producers, but it still left others high and dry. Light trap counts of bollworm moths continue to increase, perhaps somewhat aided by recent rainfall. However, our projected 7-day

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forecast for much of the state generally looks like a continuation of our hot, dry conditions. This will certainly be an early-maturing crop overall.

Cotton is less susceptible to insect damage. I realize exceptions are probably common, but many areas now have cotton that has been “cut out” for several weeks, with a very few fields even beginning to open. Many of the other fields have either greatly diminished blooming or have stopped blooming altogether. In these above situations, remember that cotton is quickly becoming unattractive to both bollworms and stink bugs. Even in rapidly growing cotton with plenty of blooms and good moisture levels, the seventh or eighth week of bloom signals the raising of the internal damaged boll threshold for stink bugs to the 20 to 30% range, making the need to treat less likely. In many of our cotton fields, bolls are now too mature to be damaged by stink bugs.

Light trap counts across the state continue to rise, but levels so far are below historical averages for this time of year, with only a few light traps exceeding 100 moths per two-night catch. Based on our present moth levels, I would expect light trap counts to climb for approximately a week or two in our central and upper cotton production areas, probably having more of an impact on soybean than cotton.

Perhaps our most significant task during the next few days and weeks, will be to cull out cotton fields that are no longer susceptible to insect damage, and place a higher scouting priority on those fields that still contain susceptible bolls. As a general rule of thumb, fields that are no longer blooming will not likely be attractive to or damaged by insects.

We had had some recent calls about **fall armyworms** feeding on pastures, but none on cotton. The fall armyworm race that feeds on pastures (the grass race) is different than the one that can damage cotton. Additionally, both *Bollgard II* and *WideStrike* cotton lines are quite resistant to fall and beet armyworm damage, so we’re probably safe from these species. The cases that I have seen fall and beet armyworms and European corn borers on *WideStrike* or *Bollgard II* cotton at economically-damaging levels in parts of cotton fields was almost always when a particular host weed was burned down late in the spring and the half-grown larvae were able to transfer to the *Bt* cotton. Even these cases are rare.

Additional rainfall in the coming days or weeks would be welcome to help fill out bolls that are generally on the small side this year due to our hot and dry conditions.

From: Dominic Reisig, Extension Entomologist

Kudzu Bugs on Soybeans in the North Carolina Coastal Plain: Insecticide Recommendations

Kudzu bugs have been reported on soybeans in Duplin County, North Carolina by Curtis Fountain, the Duplin County Cooperative Extension agent. This is the first report of kudzu bugs on soybeans in North Carolina’s Coastal Plain and the first instance where kudzu bugs have initially been found on soybeans in a county before an alternate host. The general pattern of finding has centered around an initial find on kudzu, or wisteria, followed by a host shift to soybeans.

This insect seems to find flowering soybeans attractive, but will still migrate to and persist on the plants through the reproductive stages. Although it is a stem and leaf feeder, it can still cause significant yield loss. The treatment threshold is 3 to 5 kudzu bugs per plant or 1 kudzu bug per sweep (e.g., 15 kudzu

bugs in a 15 sweep sample or 25 kudzu bugs in a 25 sweep sample). More information on treatment thresholds and kudzu bug photographs can be found at <http://www.nccrops.com/?p=80>.

The best insecticide treatment options are a pyrethroid or acephate. Consider the pest complex when making a treatment decision. Tolerance to pyrethroid insecticides has been documented in the state for pests such as the corn earworm/tobacco budworm complex, bean leaf beetles, soybean loopers and brown stink bugs. With the specter of these pests on the horizon, you will want to scout intensively before making a treatment decision. Here are some options to consider if you have to spray for kudzu bugs in the mid-season:

- Kudzu bugs and corn earworms/tobacco budworms only. If corn earworms are present in significant amounts, **DO NOT** use a pyrethroid without mixing 0.5 pounds of acephate or an alternative chemistry targeted for lepidopteran pests (such as Belt, Larvin, Steward, or Tracer). Do not use a straight neonicotinoid (e.g., Belay) or any insecticide mixed with a neonicotinoid when kudzu bugs are present (e.g., Endigo, Leverage 360, etc.).
- Kudzu bugs and bean leaf beetles only. If bean leaf beetles are present and you have not used a pyrethroid for bean leaf beetles in the past, use a pyrethroid. If you have been using a pyrethroid for bean leaf beetles, use acephate.
- Kudzu bugs and green stink bugs only. Use a pyrethroid at the highest labeled rate.
- Kudzu bugs and brown stink bugs only. Use acephate at the highest labeled rate.

INSECT TRAP DATA

From: Richard Melton, County Extension Director, Union County

Light Trap Data from Anson, Stanly and Union Counties

```

*****
                        Number of Adult Insects
*****
                Anson          Union S          Union N          Stanly
*****          *****          *****          *****
Date           CEW  GR  BR  CEW  GR  BR  CEW  GR  BR  CEW  GR  BR
*****
July 16        -   -   -   15   -   -   -   -   -   -   -   -
July 20        -   -   -   43   -   -   -   -   -   -   -   -
July 22        -   -   -  126   -   -   -   -   -   1   2   2
July 25        -   -   -   75   9   -   -   -   -   2   1   2
July 27        43  14   -   68  12   -   -   -   -   1   -   -
*****
    
```

CEW = corn earworm moths; GR = green stink bugs; BR = brown stink bugs
 Union County South - Marshville; Union County North - Unionville

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

Light Trap Data from Bertie County

```

*****
                Windsor      Woodard      Hexlena      Colerain
                *****      *****      *****      *****
Date            Moths  GSB   Moths  GSB   Moths  GSB   Moths  GSB
*****
July 20         4    4    15    3    0    1    -    -
July 21         4    0    25    1    -    -    -    -
July 22        10    1    12    2    9    5    -    -
July 23        37    0    -    -    -    -    -    -
July 24         -    -    -    -    -    -    -    -
July 25        70    1    19    2    19    4    -    -
July 26        15    0    7    0    12    0    25    0
July 27        20    2    19    1    17    0    -    -
July 28        39    0    34    4    15    1    -    -
July 29        36    6    27    4    10    2    -    -
July 30        41    0    -    -    -    -    -    -
July 31         -    -    -    -    -    -    -    -
August 1       65    0    42    2    -    -    33    -
August 2       18    2    32    7    6    2    18    -
August 3       19    4    32    5    3    10    13    0
August 4       12    0    23    7    1    5    25    0
August 5       10    3    24    1    5    0    -    -
*****
    
```

Moths = Bollworm moths; 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    LOOP
*****
July 5         1    1    -    2    -    -    -    -    -
July 11        -    -    3    3    1    -    -    -    -
July 18        -    -    23   -    -    4    -    -    -
July 22        -    -    38    1    1    -    -    -    -
July 25        -    -    75   -    -    -    -    -    -
July 29        2    -    91    1    1    -    -    -    -
August 2       -    -    85   -    1    -    -    -    -
August 5       1    -    62   -    1    -    -    -    -
*****
    
```

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; LOOP = Looper

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 7      ----- trap set up -----
July 9      0          1          3          0
July 11     0          6          8          1
July 13     0          4          26         3
July 15     0          4          1          0
July 18     0          5          6          0
July 20     0          16         16         0
July 22     0          24         12         1
July 25     0          37         7          0
July 29     0          127        22         0
August 1    0          91         11         0
August 3    0          35         3          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: 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  BS  GS  CEW  BS  GS  CEW  BS  GS
*****
July 8      -   -   -    0   0   0    -   -   -
July 11     0   0   0    0   1   3    -   -   -
July 13     0   0   0    0   1   1    4   0   6
July 15     0   0   0    0   0   0    0   0   4
July 18     0   0   0    3   0   0    0   0   0
July 20     0   0   0    3   0   2    2   0   4
July 22     0   0   2    4   0   0    1   0   2
July 25     1   0   7   14   0   0    0   0   4
July 27     5   0   5   22   0   0    0   0   1
July 29     4   0   1   26   0   1    0   0   1
*****
    
```

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August 1      10    0    3    41    0    2    1    0    1
August 3      6     0    3    19    0    2    0    0    0
*****
    
```

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

From: Alan A. Harper, Lenoir County

Light Trap Data from Lenoir County

```

*****
                        Number of Adult Insects
*****
Date      HW    CEW    ECB    AW    AWC    GSB    BSB    TBW
*****
July 18   0     9     0     0     1     0     0     0
July 19   0     1     2     0     0     1     0     0
July 20   0     5     0     0     0     2     0     0
July 21   0    20     1     0     2     2     0     1
July 22   0    15     0     0     0     4     0     0
July 23   0     8     0     0     3     1     0     0
July 24   0     4     0     0     0     0     0     0
July 25   0     8     0     0     1     0     0     0
July 26   0    11     0     0     2     0     0     0
July 27   0    16     0     0     0     0     0     1
July 28   0    24     0     0     1     2     0     2
July 29   0    13     0     0     3     1     0     0
July 30   0    34     0     1     2     2     0     0
July 31   0    29     0     1     2     2     0     0
August 1  1    36     1     0     3     1     0     0
August 2  0    17     0     1     2     4     0     0
August 3  0    23     1     0     2     0     0     0
August 4  0    20     0     1     3     0     0     0
August 5  0    25     0     3     3     3     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: Al Cochran, County Extension Director, Martin County

Light Trap Data from Martin County

```

*****
                        Robersonville      Farm Life
*****
Date      BW    GSB    BW    GSB
*****
July 8    8     3     2     6,1*
July 13   3     1     3     0
July 15   3     0     0     3
    
```

July 18	5	0	2	0
July 20	5	1	3	1
July 22	9	1	12	0
July 25	12	1	7	1
July 27	17	0	8	4
July 29	17	0	24	0,6*
August 1	21	2	29	7
August 3	18	1	25	5,5*

BW = Bollworm moths; GSB = Green stink bugs
 * brown stink bugs

From: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data from Northampton County

Number of Adult Insects

Date	Woodland			Conway			Galatia			Seaboard			Gaston			W. Gaston			Jackson		
	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR
July 11	-	-	-	21	0	0	-	-	-	-	-	-	-	-	-	-	-	-	6	15	0
July 13	-	-	-	13	2	0	-	-	-	0	0	0	-	-	-	-	-	-	21	11	0
July 15	-	-	-	0	0	0	-	-	-	0	0	0	-	-	-	-	-	-	7	0	0
July 18	-	-	-	1	0	0	2	0	0	2	0	0	2	0	0	-	-	-	0	0	0
July 20	0	1	1	2	12	0	2	0	0	4	0	0	8	0	0	-	-	-	19	6	0
July 22	0	1	0	0	0	2	7	0	0	1	3	0	13	0	0	-	-	-	17	5	0
July 25	0	1	0	0	16	0	7	7	0	8	25	0	6	0	0	-	-	-	35	29	0
July 27	3	0	0	7	26	0	23	11	0	1	7	0	8	1	0	-	-	-	17	17	1
July 29	0	4	2	14	5	1	22	2	1	0	0	0	12	4	0	-	-	-	28	15	1
August 1	0	1	0	15	5	0	49	5	0	4	3	0	-	-	-	-	-	-	63	25	5
August 3	0	2	0	8	5	0	25	2	0	6	18	0	-	-	-	-	-	-	26	12	2
August 5	4	0	1	-	-	-	25	0	1	4	8	0	-	-	-	-	-	-	35	5	1

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

Locations: Woodland, Conway, Galatia, Seaboard, Gaston, West Gaston and Jackson
 Monitored by: L. Culpepper, K. Edwards, Ben Harris, T. Flythe, D. Grant,
 Tim Phelps and B. Bryant

From: Melissa E. Huffman, Agricultural Extension Agent, Onslow County

Light Trap Data from Onslow County

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*****
                        Number of Adult Insects
*****
Date          Bollworms   GSB    BSB   Hornworms
*****
July 22             30      1     -     -
July 25             30      1     -     -
July 27             80      2     -     -
July 29            115      7     -     -
August 1            155      3     -     -
August 3            105      5     -     -
*****

```

GSB = green stinks bugs; BSB = brown stink bugs

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

From: Keith Kettner, Agricultural Extension Agent, Sampson County

Light Trap Data from Sampson County

```

*****
                        Number of Adult Insects
*****
Date          GSB         BSB         BW
*****
July 26             8           -           85
July 29             6           2           92
August 1            10          4           105
*****

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

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

From: Dominic Reisig, Extension Entomologist

Light Trap Data from Tidewater Research Station (Washington County)

```

*****
                        Number of Adult Insects
*****
Date      CEW    TBW    ECB    AW    SBL    BSB    GSB    BaSB    DSB
*****
June 22      9      0      0      0      0      0      1      0      0
June 24      5      0      0      0      0      2      2      0      0
June 27      4      0      0      0      0      17     0      0      0
June 29      3      0      0      0      0      13     0      0      0
July 1       3      0      0      0      0      6      0      0      0
July 4       3      0      0      0      0      2      0      0      0
July 6       0      0      0      0      0      2      1      0      0
July 8       2      0      0      0      0      1      3      5      0
July 11      1      0      0      0      0      0      0      0      0
July 13      1      0      0      0      0      5      2      0      1
July 15      0      0      0      0      0      2      1      0      0
July 18      0      0      0      0      0      0      0      0      0
July 20      0      0      0      0      0      0      0      0      0
July 22      0      0      0      0      0      0      0      0      0
July 25      6      0      0      0      0      0      0      1      0
July 27     14      0      0      0      0      1      1      2      0
July 29     11      0      0      0      0      2      4      0      0
August 1      6      0      0      0      0      2      6      3      0
August 3      2      0      0      0      0      0      0      0      0
August 5      5      0      0      0      0      3      2      0      0
*****
    
```

Abbreviations: CEW = corn earworms; TBW = tobacco budworms; ECB = European corn borers; AW = armyworms; SBL = soybean loopers; BSB = brown stink bugs; GSB = green stink bugs; Banasa stink bugs; dusky stink bugs

Pheromone Trap Data from Tidewater Research Station, Tyrrell County and Upper Coastal Plains Research Station

```

*****
                        Tidewater      Tyrrell Co.      UCPRS
*****
Date      CEW    TBW      CEW    TBW      CEW    TBW
*****
June 9      -      -        11     2         6      7
June 15     0      4         1      5         0      0
June 22     -      9         7      6         7      2
June 30     -      -         9     16        11     15
July 8      -      5        16     4         3     16
July 11     -      -        36     0         -      -
July 12     2      4         -      -         -      -
July 13     -      -         -      -        17     0
July 18     -      -         6      0         -      -
July 19     13     0         -      -         -      -
    
```

July 20	-	-	-	-	15	0
July 25	-	-	47	1	-	-
July 26	18	-	-	-	-	-
July 27	-	-	-	-	24	0
August 1	40	4	324	4	62	-

Abbreviations: CEW = corn earworms; TBW = tobacco budworms

From: Kevin Johnson, County Extension Director, Wayne County

Light Trap Data from Wayne County

 Number of Adult Insects

 Goldsboro

Date	GSB	BSB	CEW	HW
July 6	0	2	0	0
July 8	2	1	-	-
July 11	-	3	3	3
July 13	1	8	4	1
July 15	-	1	1	-
July 18	-	-	2	-
July 20	2	-	4	-
July 22	1	3	29	-
July 25	9	3	50	-
July 27	3	3	85	2
July 29	10	3	45	1
August 1	10	-	61	-
August 3	6	2	68	-
August 5	6	3	30	-

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

Cooperator: Willie Howell (Goldsboro)

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

Light Trap Data from Wilson County

```

*****
                Number of Adult Insects
                *****
                Kenly           Fountain
                *****           *****
Date           CEW  GSB           CEW  GSB
*****
July 13              -    -              1    9
July 15              2    0              1    2
July 18              3    0              2    1
July 20              0    3              2    2
July 22              3    1              0    7
July 25              2    2              7    5
July 27              7    1              9    5
July 29             19    2              8    9
August 1            30    5              9    4
August 3            15    2              7    3
August 5            50    1             13    5
*****

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CEW = corn earworms; GSB = green stink bugs

Locations: Kenly and Fountain
Monitored by: Norman Harrell and Barbara Smith

Recommendations for the use of chemicals are included in this publication as a convenience to the reader. The use of brand names and any mention or listing of commercial products or services in this publication does not imply endorsement by North Carolina State University, North Carolina A&T State University or North Carolina Cooperative Extension nor discrimination against similar products or services not mentioned. Individuals who use chemicals are responsible for ensuring that the intended use complies with current regulations and conforms to the product label. Be sure to obtain current information about usage regulations and examine a current product label before applying any chemical. For assistance, contact an agent of North Carolina Cooperative Extension.