NC STATE UNIVERSITY

COLLEGE OF AGRICULTURE & LIFE SCIENCES

North Carolina Pest News

Departments of Entomology and Plant Pathology

Volume 24, Number 21, September 4, 2009

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

In This Week's Issue . . .

See current and archived issues of the *North Carolina Pest News* on the Internet at: http://ipm.ncsu.edu/current_ipm/pest_news.html

ANNOUNCEMENTS AND GENERAL INFORMATION

Online Survey of the *North Carolina Pest News* Readers

If you have already completed the online survey of *North Carolina Pest News* readers regarding the use and usefulness of the newsletter, then please accept our appreciation.

If you have not taken the opportunity to complete the survey, please take a few minutes to do so. The editor and authors of the *North Carolina Pest News* plan to use the information collected through the survey to document the usefulness of the newsletter to our readers and improve its quality in the future. The information in the survey is anonymous and confidential. You only need to complete the survey one time.

To complete the online survey, go to the following web page: http://www.ipmpipe.org/survey_ncpn/

Enter the following password: pestnews

Click on the login button.

Once you have accessed the online survey questionnaire, please enter your answers to each question. You can change your answers by clicking on another selection. Once you have entered and are satisfied with your answers to the survey questions, click on the "Submit" button at the end of the questionnaire. Once you have clicked on the "Submit" button, your answers will be entered into a database with the answers of others that have completed the survey.

You can complete the survey online until Wednesday, September 30, when the site will be taken offline. Again, you only need to complete the survey one time.

FIELD AND FORAGE CROPS

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

Soybean Rust Update: September 2, 2009

Asiatic soybean rust was confirmed late today on soybeans in Berkeley County, South Carolina, which is closer to all our North Carolina soybeans except those in the far western part of the state. The Berkelely County site is approximately 145 miles from Charlotte, 305 miles from Elizabeth City, 145 miles from Fayetteville, 260 miles from Murphy, 195 miles from Raleigh, 240 miles from Washington, 145 miles from Wilmington, and 200 miles from Winston-Salem, North Carolina. The closest rust to Murphy, North Carolina remains Cullman County, Alabama, which is approximately 170 miles away.

Rust has now been confirmed on soybeans in Alabama, Arkansas, Florida, Georgia, Louisiana, and Mississippi. The other counties announced in the past week to have rust on soybeans are all farther away from our North Carolina soybeans than the sites mentioned in the paragraph above.

We do not consider this find to pose any imminent threat to our North Carolina soybeans yet, but since it has gotten so much closer in such a short period of time, it should serve as a wake-up call for North Carolina farmers to continue to check our soybeans that have not yet gotten full sized beans in the top of the plants, and to continue to monitor reliable reports of where else rust has been found. An up-to-date map of where rust has been found is available on the web at http://www.sbrusa.net. The current version of these North Carolina updates should also be available at our Teletip line at 800/662-7301.

ORNAMENTALS AND TURF

From: Steve Bambara, Extension Entomologist

Iris Borers

Most of the time, the evidence of iris borer damage to rhizomes is discovered when people dig the rhizomes to transplant them during the summer. The iris borer is a caterpillar in the same family as the corn earworm and cabbage looper. The moths emerge in late summer to mate and lay eggs on the oldest, roughest, dead and bleached out iris leaves or on plants nearby. A single female may lay more than 1,000 eggs, usually in crevices or in folds of the leaves. The eggs hatch the following spring. The tiny caterpillars first feed on the new foliage and sometimes cause the margins of the leaves to be ragged. The holes caused by the young caterpillars bleed causing deposits of sap on the leaves. The caterpillars then mine in the leaves for a while before working downward toward the rhizomes. Narrow, water-soaked slits appear where the external feeding and mining have injured the leaves. As the caterpillars grow, they excrete slimy frass in which grow bacteria and fungi causing an unpleasant odor. The caterpillars are about half grown by the time they reach the rhizome. There they feed on the edge or on the underside of the rhizome sometimes boring right in. Often a single caterpillar may completely devour the insides of a rhizome.

To control the iris borer, it is important to remove all old iris leaves and other plant rubbish from the beds in fall or early spring before new growth emerges. If the borers are discovered later in the spring, it may be possible to crush the caterpillars with the thumb and finger inside the leaf. Imidacloprid (Merit) is a systemic and effective. Orthene is another product. Either could be applied in the spring and would be taken up into the plant reasonably quickly. Studies at the University of Maryland show that entomomopathogenic nematodes, *Steinernema carpocapsae* and *Heterorhabditis bacteriophora*, were as effective as chemicals against iris borer when applied correctly. For more information, see the Purdue University link at http://www.entm.purdue.edu/Entomology/research/cs/mg/mg.html.

Giant Swallowtails

The giant swallowtail butterfly is large and striking (Fig. 1). The larvae resemble lizard or bird droppings (Fig. 2). They are common on citrus. We don't have much citrus in North Carolina, but there are a few other ornamental host plants on which they feed. The image in Figure 2 arrived this week from Dare County, North Carolina.

For more information, see http://www.entnemdept.ufl.edu/creatures/citrus/giantswallowtail.htm.

Fig. 1. Giant swallowtail butterfly. Image by Jerry Butler, University of Florida.

Fig.2. Giant swallowtail caterpillar. Image by A. Murdock.

From: Steve Frank, Extension Entomologist

Eriophyid Mites

We have had several samples in the Plant Disease and Insect Clinic at North Carolina State University infested with eriophyid mites. Eriophyid mites are much smaller than spider mites and require a microscope to observe. Many eriophyids produce galls on plant leaves. Other cause leaves for become distorted or discolored. Most trees and shrubs have an eriophyid species that will feed on them. Leaf feeding can cause leaves to acquire a yellow or silvery appearance and premature leaf drop. Since the mites are so small damage is often attributed to other pests or environmental damage or stress. Not only are these mites difficult to diagnose (send samples to the North Carolina State University Plant Disease and Insect Clinic) management options are limited. It is important to remember that not all miticides are effective against eriophyid mites. Some that are include chlorfenapyr (Pylon), spiromesifen (Judo, Forbid), and horticultural oil. Figure 3 is a picture of damage to rose leaves and buds taken at the North Carolina State University Plant Disease and Insect Clinic.

Fig. 3. Damage to rose leaves and buds by eriophyid mites. Image from the Plant Disease and Insect Clinic at North Carolina State University.

INSECT TRAP DATA

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

Light Trap Data from Bertie County

	Windsor		Woodard		Hexlena		Roxobel		Colerain	
Date	Moths	GSB	Moths	GSB	Moths	GSB	Moths	GSB	Moths	GSB
July 22	-	-	-	-	-	-	-	-	-	-
July 23	-	-	-	-	0	0	3	2	-	-
July 24	-	-	-	-	-	-	-	-	-	-
July 25	12	0	-	-	-	-	-	-	-	-
July 26	35	0	-	-	-	-	-	-	-	-
July 27	100	0	-	-	8	0	10	0	-	-
July 28	46	0	-	-	6	0	4	0	81	0
July 29	107	0	16	1	4	0	3	0	160	0
July 30	96	0	10	2	16	5	16	0	59	0
July 31	76	2	12	0	11	5	27	0	215	1
August 1	-	-	25	3	7	0	-	-	-	-
August 2	-	-	12	1	-	-	-	-	-	-
August 3	45	0	24	2	30	0	115	1	356	0
August 4	18	0	23	1	6	0	30	1	80	0
August 5	15	0	12	2	11	0	32	1	36	0
August 6	10	0	27	0	8	0	42	0	52	0
August 7	6	1	-	-	7	0	27	0	18	0
August 8	-	-	22	1	-	-	-	-	-	-
August 9	75	3	19	0	-	-	-	-	-	-
August 10	45	8	27	1	-	-	85	5	168	2
August 11	62	3	27	1	7	0	37	2	118	7
August 12	79	1	25	1	12	4	1	0	45	7
August 13	36	1	-	-	-	-	58	0	41	1
August 14	53	4	62	7	3	1	-	-	50	7
August 15	-	-	65	4	-	-	49	3	-	-
August 16	-	-	30	6	-	-	-	-	-	-
August 17	19	1	18	6	20	9	68	5	-	7
August 18	-	-	59	9	-	-	-	-	77	9
August 19	-	-	12	1	-	-	7	4	28	0
August 20	21	12	14	4	10	5	20	2	-	-
August 21	75	14	-	-	-	-	16	2	27	3
August 22	34	8	-	-	-	-	-	-	-	-
August 23	12	7	-	-	-	-	-	-	-	-
August 24	6	5	-	-	-	-	-	-	25	2
August 25	21	5	26	10	-	-	-	-	-	-
August 26	46	11	19	9	-	-	7	0	-	-
August 27	48	8	18	4	-	-	-	-	-	-
August 28	65	1	46	7	-	-	-	-	-	-
August 29	-	-	34	4	-	-	-	-	11	0
August 30	74	7	14	0	-	-	-	-	-	-
August 31	54	3	22	3	-	-	-	-	31	2
September 1	30	0	15	1	-	-	-	-	-	-
September 2	-	-	8	0	-	-	25	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	Looper
July 10	-	2	2	-	-	-	-	-	-
July 13	0	1	15	1	-	-	-	-	-
July 20	8	3	80	3	-	-	-	-	-
July 22	3	1	47	-	-	-	1	-	-
July 24	2	-	37	1	-	7	-	-	-
July 27	2	-	72	10	-	-	8	-	-
July 29	3	-	82	-	-	-	4	-	-
July 31	-	1	134	3	-	-	2	-	-
August 3	1	1	133	1	-	-	2	-	-
August 5	-	1	53	3	-	-	-	-	-
August 7	-	-	53	-	-	-	1	-	-
August 10	-	-	196	5	-	-	1	-	-
August 12	1	-	68	3	-	-	2	-	-
August 14	2	-	193	-	-	-	2	-	-
August 17	3	-	83	6	3	-	1	-	-
August 19	1	1	53	-	-	-	-	-	-
August 21	-	-	-	-	-	-	-	-	-
August 24	2	-	116	4	-	-	4	-	-
August 26	2	-	73	1	-	-	-	-	-
August 28	3	-	37	-	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

Location of trap: Cove City
Cooperators: Cove City Fertilizer

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

Light Trap Data from Duplin County

	Number of Adult Insects		
Date	BW	GSB	BSB
July 6	-	-	-
July 8	-	-	-
July 10	-	-	-
July 13	-	-	-

July 15	0	4	0
July 17	10	13	0
July 20	15	32	0
July 22	31	2	0
July 24	22	15	0
July 27	74	37	0
July 29	62	9	1
July 31	37	7	0
August 3	98	4	2
August 5	16	0	3
August 7	18	1	2
August 10	18	5	3
August 12	13	5	2
August 14	87	20	0
August 17	41	7	4
August 19	46	4	0
August 21	50	7	0
August 24	150	4	0
August 26	92	2	0

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

Trap location: approximately two miles east of Albertson
Cooperator: Justin Murphy

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

Light Trap Data from Edgecombe County

	Number of Adult Insects								
	Coakley			West Edgecombe			Lawrence		
Date	CEW	BS	GS	CEW	BS	GS	CEW	BS	GS
July 17	15	-	3	-	-	-	-	-	-
July 20	10	-	4	-	-	-	-	-	-
July 22	18	1	3	-	-	-	-	-	-
July 24	14	-	4	-	-	-	5	-	20
July 27	45	-	3	-	-	-	30	0	7
July 29	36	-	0	-	-	-	35	0	3
July 31	57	-	2	-	-	-	7	0	2
August 3	33	-	4	-	-	-	11	0	2
August 5	14	1	0	-	-	-	1	0	2
August 7	12	0	0	-	-	-	2	0	0
August 10	47	0	0	-	-	-	40	0	3
August 12	31	0	2	-	-	-	5	0	0
August 14	19	0	0	-	-	-	4	0	0
August 17	21	0	0	-	-	-	5	0	5
August 19	20	0	5	-	-	-	10	0	1
August 21	22	0	1	-	-	-	8	0	4
August 24	14	0	1	-	-	-	-	-	-

August 26	26	0	0	-	-	-	5	0	4
August 28	59	0	4	-	-	-	3	0	1
August 31	-	-	-	-	-	-	7	0	3

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

From: Paul Smith, Agricultural Extension Agent, Gates County

Light Trap Data from Gates County

Date	Bollworm moths
July 25	1
July 26	2
July 27	9
July 28	3
July 29	7
July 30	8
July 31	19
August 1	11
August 2	9
August 3	14
August 4	60
August 5	18
August 6	30
August 7	7
August 8	4
August 9	2
August 10	18
August 11	2
August 12	14
August 13	-
August 14	20
August 15	41
August 16	5
August 17	14
August 18	24
August 19	35
August 20	16

Cooperator: Dennis Riddick

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

Light Trap Data from Hoke County

Date	Moths	GSB	BSB
July 8	5	10	-
July 10	5	4	-
July 13	4	1	-
July 15	4	5	-
July 17	5	4	-
July 20	4	7	-
July 22	3	6	-
July 24	7	6	-
July 27	28	6	-
July 29	100	9	-
July 31	51	1	-
August 3	162	1	-
August 5	20	1	-
August 7	32	3	-
August 10	48	2	-
August 12	29	1	-
August 14	29	1	1
August 17	43	3	1
August 19	25	4	-
August 21	33	2	-
August 24	97	9	-
August 26	40	5	-
August 28	44	5	-
August 31	86	6	-
September 2	46	-	-

GSB = green stink bugs; BSB = brown stink bugs

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

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 10	1	0	1	0	0	0	0	0
June 11	1	0	0	0	0	3	2	0
June 12	1	0	0	0	0	2	0	0
June 13	1	3	0	0	1	16	2	0

June 14	1	1	0	0	0	8	13	1
June 15	0	3	0	0	5	38	1	0
June 16	1	4	1	0	1	4	0	0
June 17	1	3	0	0	1	3	0	0
June 18	0	2	0	1	0	4	1	0
June 19	0	0	0	0	0	24	4	0
June 20	0	4	0	0	1	14	19	0
June 21	0	7	0	0	3	5	14	1
June 22	0	5	0	1	4	1	5	0
June 23	0	6	0	0	1	1	2	0
June 24	1	3	0	0	3	4	0	0
June 25	0	4	1	0	8	1	1	0
June 26	1	1	0	1	9	16	1	0
June 27	0	1	0	0	4	9	2	0
June 28	0	2	0	1	1	6	1	2
June 29	0	1	0	0	1	7	3	0
June 30	0	1	0	0	1	0	1	0

July

	Number of Adult Insects							
Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
July 1	0	1	0	0	1	3	0	0
July 2	1	2	0	0	2	5	1	0
July 3	0	1	0	0	4	1	0	0
July 4	0	2	0	0	5	0	0	0
July 5	0	2	0	0	3	0	0	0
July 6	0	0	0	0	0	1	2	0
July 7	0	1	0	0	1	5	0	0
July 8	0	0	0	0	0	3	0	0
July 9	0	2	0	1	2	5	0	0
July 10	0	2	0	0	1	3	0	0
July 11	0	2	0	0	4	6	0	0
July 12	1	0	0	0	6	2	0	0
July 13	0	0	0	0	3	2	0	0
July 14	0	1	0	0	2	0	0	0
July 15	1	4	0	0	7	6	0	0
July 16	1	8	0	0	4	3	0	0
July 17	0	5	1	0	3	1	0	0
July 18	0	6	1	0	1	2	0	0
July 19	0	26	6	1	6	3	1	0
July 20	1	31	6	0	2	4	0	1
July 21	2	22	0	0	5	4	0	0
July 22	1	70	1	0	2	2	0	0
July 23	0	61	3	0	5	12	1	0
July 24	0	41	2	1	5	1	0	1
July 25	1	62	1	0	5	6	0	0
July 26	0	67	2	0	6	3	0	3
July 27	0	40	0	0	7	4	0	0
July 28	1	80	2	0	1	1	0	1
July 29	0	70	0	0	3	5	0	0
July 30	0	49	2	0	1	0	0	1

July 31	0	31	0	0	2	2	0	0

August

	Number of Adult Insects							
Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
August 1	---------- unplugged ----------							
August 2	0	41	0	0	3	2	0	1
August 3	1	38	1	0	2	3	0	0
August 4	0	29	1	0	5	2	0	0
August 5	0	28	0	0	2	3	0	0
August 6	0	34	2	0	1	4	0	0
August 7	0	28	0	0	1	4	0	0
August 8	0	24	0	0	2	3	0	0
August 9	0	5	2	0	0	2	0	0
August 10	0	8	0	0	0	0	0	0
August 11	0	6	1	0	2	1	0	0
August 12	0	6	1	0	0	0	0	0
August 13	0	24	0	0	0	2	0	0
August 14	0	22	5	0	0	0	0	0
August 15	0	17	1	0	1	2	0	0
August 16	0	9	2	0	5	0	0	1
August 17	0	11	1	0	2	2	0	0
August 18	0	5	1	0	1	2	0	0
August 19	0	10	2	0	1	3	0	1
August 20	0	16	4	0	2	3	0	3
August 21	0	21	13	1	1	1	0	1
August 22	2	31	2	1	2	2	0	0
August 23	2	18	3	0	0	1	0	0
August 24	0	27	4	1	1	0	0	0
August 25	2	36	3	0	1	1	0	0
August 26	0	35	4	1	1	0	0	0
August 27	1	51	9	1	1	2	0	0
August 28	0	49	13	2	2	0	0	0
August 29	3	45	19	0	3	1	0	1
August 30	0	23	2	0	1	0	0	0
August 31	2	30	0	0	3	2	0	1

September

	Number of Adult Insects							
Date	HW	CEW	ECB	AW	AWC	GSB	BSB	TBW
September 1	2	14	8	1	3	0	1	2
September 2	0	14	7	0	3	0	0	1
September 3	0	20	13	0	8	0	0	1
September 4	0	24	9	0	3	0	0	2

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

	Robersonville		Farm Life	
Date	BW	GSB	BW	GSB
July 20	5	0	3	2
July 22	4	0	6	1
July 24	3	0	5	7
July 27	14	3	8	3
July 29	34	2	14	0
July 31	14	0	19	0
August 3	42	1	126	4
August 5	16	2	26	2
August 7	4	0	7	0
August 10	39	0	32	2
August 12	44	0	27	2
August 14	34	0	44	0
August 17	55	1	47	1
August 19	51	1	37	1
August 21	50	1	13	2
August 24	26	5	20	0
August 26	18	0	31	1
August 28	13	0	17	2
August 31	21	0	104	3
September 2	19	0	23	0
September 4	9	1	9	0

BW = Bollworm moths; GSB = Green stink bugs

From: Craig Ellison, Agricultural Extension Agent, Northampton County

Light Trap Data from Northampton County

	Number of Adult Insects																	
	Woodland			Conway			Galatia			Seaboard			Gaston			Jackson		
Date	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR	CEW	GR	BR
July 24	1	0	0	-	-	-	1	6	0	-	-	-	-	-	-	10	4	0
July 27	1	9	0	-	-	-	6	21	0	9	6	0	-	-	-	87	41	2
July 29	2	2	0	-	-	-	8	16	0	14	0	1	-	-	-	121	11	0
July 31	6	1	0	-	-	-	14	21	0	-	-	-	-	-	-	-	-	-

Aug. 3	7	0	0	9	0	0	71	15	1	16	4	0	-	-	-	392	21	2
Aug. 5	7	1	-	20	2	1	14	2	1	25	0	0	-	-	-	72	7	3
Aug. 7	8	1	0	18	8	0	19	1	0	-	-	-	6	2	0	-	-	-
Aug. 10	11	1	0	22	8	0	67	4	0	21	5	0	-	-	-	158	20	1
Aug. 12	-	-	-	16	11	3	35	26	2	21	84	0	62	0	0	119	27	2
Aug. 14	13	0	0	21	9	0	40	21	0	-	-	-	16	0	0	-	-	-
Aug. 17	29	0	0	15	6	0	70	10	0	36	5	0	12	0	0	55	11	0
Aug. 19	7	0	0	18	8	0	43	17	0	12	0	0	3	0	0	127	25	0
Aug. 21	30	3	0	-	-	-	60	18	0	-	-	-	-	-	-	195	37	1
Aug. 24	14	4	0	8	20	0	54	51	0	-	-	-	-	-	-	-	-	-
Aug. 26	4	0	0	21	8	0	13	13	0	-	-	-	46	0	0	67	8	0
Aug. 28	20	3	0	-	-	-	35	10	0	36	7	0	2	0	0	78	30	1
Aug. 31	25	3	0	-	-	-	84	25	0	-	-	-	-	-	-	110	13	0
Sept. 2	10	0	0	-	-	-	-	-	-	6	0	0	-	-	-	46	0	0
Sept. 4	5	0	0	-	-	-	6	0	0	-	-	-	-	-	-	-	-	-

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

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

From: Melissa Evans, Agricultural Extension Agent, Onslow County

Light Trap Data from Onslow County

	Number of Adult Insects			
Date	Bollworms	GSB	BSB	Hornworms
June 24	-	-	-	-
June 26	2	10	0	0
June 29	7	5	0	0
July 1	-	-	-	-
July 3	-	-	-	-
July 6	-	-	-	-
July 8	-	-	-	-
July 10	-	-	-	-
July 13	-	-	-	-
July 15	-	-	-	-
July 17	21	10	-	-
July 20	30	12	-	-
July 22	45	3	-	-
July 24	80	3	-	-
July 27	105	5	-	-
July 29	100	0	-	-
July 31	146	5	-	-
August 3	215	15	-	-
August 5	148	7	-	-
August 7	80	1	-	-
August 10	120	8	-	-
August 12	40	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: Everett Davis, County Extension Director, Robeson County

Light Trap Data from Robeson County

	Number of Adult Insects			
Date	BW	GSB	BSB	FAW
July 16	9	-	-	-
July 17	13	-	-	-
July 18-19	34	-	-	-
July 20	32	4	-	-
July 21	29	3	-	-
July 22	31	-	-	-
July 23	24	4	-	-
July 24	17	-	-	-
July 25-26	49	-	-	-
July 27	29	-	-	-
July 28	19	0	0	0
July 29	16	2	0	-
July 30	18	1	0	0

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

Trap location: Rowland; Cooperator: Kay McGirt

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 10	7	10	-	-	3	3	-	-	5	1	-	-
July 13	27	33	-	-	7	9	1	-	2	0	-	-
July 15	16	11	1	-	35	1	-	-	17	1	-	-
July 17	14	21	-	-	-	-	-	-	17	1	-	-
July 20	23	22	-	-	23	6	-	-	72	2	-	-
July 22	25	9	-	-	49	4	-	-	78	3	-	-
July 24	66	24	-	-	247	18	1	-	153	15	-	-

July 27	176	21	-	-	718	18	4	-	436	9	-	-
July 29	98	19	3	-	338	1	4	-	343	7	-	-
July 31	77	7	-	-	-	-	-	-	101	1	-	-
Aug. 3	72	24	-	-	462	34	2	-	187	2	-	-
Aug. 5	101	8	4	-	117	8	1	-	205	3	-	-
Aug. 7	44	4	-	-	138	9	-	-	201	3	-	-
Aug. 10	103	8	-	-	228	17	-	-	326	4	-	-
Aug. 12	143	4	-	-	134	18	1	-	225	2	-	-
Aug. 14	111	3	-	-	101	1	-	-	136	1	-	-
Aug. 17	108	6	-	-	266	7	-	-	187	6	-	-
Aug. 19	122	21	2	-	272	8	-	-	135	2	-	-
Aug. 21	140	14	2	-	357	12	-	-	185	9	-	-
Aug. 24	228	13	-	-	-	-	-	-	374	6	-	-
Aug. 26	158	3	-	-	273	2	2	-	353	3	-	-
Aug. 28	274	4	-	-	417	10	-	-	450	2	-	-
Aug. 31	313	3	-	-	307	2	-	-	531	2	-	-
Sept. 2	78	2	-	-	217	-	-	-	14	-	-	-

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

From: Shannon Braswell, Agricultural Extension Agent, Stanly County

Light Trap Data from Stanly County

Adult Insects

Stanly County
Richfield

Date	CEW	GSB	BSB
July 30	15	2	0
August 3	10	2	0
August 5	12	0	0
August 7	16	0	0
August 10	24	0	0
August 12	10	1	0
August 14	18	0	0
August 17	43	0	0
August 20	28	0	0
August 24	20	0	0
August 26	11	0	0
August 28	9	0	1

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

From: Andrew Gardner, Agricultural Extension Agent, Union County

Light Trap Data from Union County

	Number of Adult Insects					
	Union Co. North New Salem			Union Co. South Marshville		
Date	CEW	GSB	BSB	CEW	GSB	BSB
July 24	6	2	0	76	14	0
July 27	25	3	1	75	10	0
July 29	10	2	0	136	10	0
July 31	30	0	0	51	1	0
August 3	13	1	5	60	3	1
August 5	15	2	2	26	2	0
August 7	21	0	0	22	2	0
August 10	21	2	2	75	10	0
August 12	17	3	3	136	10	0
August 14	18	6	0	51	1	0
August 17	15	6	2	128	15	0
August 19	0	0	0	80	12	0
August 21	4	0	0	27	6	0
August 24	4	0	0	60	0	0
August 26	5	1	0	65	0	0
August 28	4	1	1	125	1	0
August 31	6	0	0	70	0	0
September 2	4	1	0	40	0	0
September 4	1	0	0	21	0	0

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

From: Kevin Johnson, Agricultural Extension Agent, Wayne County

Light Trap Data from Wayne County

	Number of Adult Insects							
	Seven Springs				Goldsboro			
Date	GSB	BSB	CEW	HW	GSB	BSB	CEW	HW
July 13	-	-	-	-	5	1	0	1
July 15	-	-	-	-	1	0	4	2
July 17	-	-	-	-	0	0	2	2
July 20	-	-	-	-	6	0	4	9
July 22	-	-	-	-	0	1	13	4
July 24	-	-	-	-	2	0	20	3
July 27	-	-	-	-	3	3	90	-

July 29	-	-	-	-	2	5	87	-
July 31	-	-	-	-	6	4	26	1
August 3	-	-	-	-	10	-	73	-
August 5	-	-	-	-	8	7	35	1
August 10	-	-	-	-	4	-	26	2
August 12	-	-	-	-	10	1	16	-
August 14	-	-	-	-	-	-	54	-
August 17	-	-	-	-	6	6	52	-
August 19	-	-	-	-	12	1	24	-
August 21	-	-	-	-	13	2	38	3
August 24	-	-	-	-	6	2	83	5
August 26	-	-	-	-	7	-	130	1
August 28	-	-	-	-	3	2	93	1

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

Cooperators: D. M. Price (Seven Springs); Willie Howell (Goldsboro)

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

Light Trap Data from Wilson County

	Number of Adult Insects			
	Pender's Xrds		Fountain	
Date	CEW	GSB	CEW	GSB
August 3	6	1	14	9
August 5	7	0	8	5
August 7	6	1	12	3
August 10	2	0	12	2
August 12	4	0	9	10
August 14	5	0	11	5
August 17	4	0	-	-
August 19	1	0	5	5
August 21	2	0	0	1
August 24	8	0	12	13
August 26	12	0	16	13
August 28	3	1	35	13

CEW = corn earworms; GSB = green stink bugs

Locations: Pender's Crossroads and Fountain
Monitored by: Adam Gardner 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.