AT A GLANCE. INSECT AND DISEASE PROBLEMS THAT SHOULD BE CONSIDERED THIS WEEK.

<table>
<thead>
<tr>
<th>PEST/DISEASE</th>
<th>WEEK OF AUGUST 22</th>
<th>WEEK OF AUGUST 29</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GROWTH STAGE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Shadow</td>
<td>Begin scouting areas for spread to new growth. Target these areas for disease control next month</td>
<td></td>
</tr>
<tr>
<td>Sharpnosed Leafhopper</td>
<td>Treat adults over the next 2 weeks, especially if Stunt Disease is present</td>
<td>Treat if not already done.</td>
</tr>
<tr>
<td>Actara, Assail, Provado, Diazinon, Imidan, See Recs. for others</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PEST/DISEASE WEEK OF AUGUST 22 WEEK OF AUGUST 29

GROWTH STAGE POST-HARVEST

Black Shadow

Begin scouting areas for spread to new growth. Target these areas for disease control next month

Sharpnosed Leafhopper

Treat adults over the next 2 weeks, especially if Stunt Disease is present

Treat if not already done.

The BLUEBERRY BULLETIN
A Weekly Update to Growers
Dr. Gary C. Pavlis, County Agricultural Agent
6260 Old Harding Highway, NJ 08330
Phone: 609/625-0056 Fax: 609/625-3646 Email: Hpavlis@njaes.rutgers.edu
August 22, 2011 Vol. XXVII, No. 21

CULTURE
Dr. Gary C. Pavlis, Ph.D.
Atlantic County Agricultural Agent

Spring Planting Plans
Some growers may be considering a new blueberry planting next spring. It is imperative that some preparation occur beforehand so that disasters do not occur down the road. This year I visited a farm with 4 year old ‘Duke’ plants whose berries were not yet ripe. The berry load was very large but the berries were starting to dry up and there were very few leaves on the plants. As any reader of this newsletter knows, having no leaves is usually due to a root problem. When I dug a plant up I saw that the roots system went down 6-8 inches and then stopped. The plant could be literally peeled off the soil at a depth of 8 inches. Further investigation revealed that the soil changed color at 8 inches to a bright orange, contained clay and was impervious to blueberry roots. So what we have here is a planting of ‘Duke’ that was 4 years old, with a root system that will never grow any deeper than 8 inches because of the clay hard pan. These plants were trying to ripen a crop with a tiny root system and as a result, could not uptake enough water and nutrients to push leaves and ripen a load of fruit.

The grower options are not very appealing: 1. pull up all the plants and sub-soil to a depth of at least 2 feet and replant, 2. sub-soil a new row between the old ones and move all the plants, 3. remove the trickle system and apply 6 inches of mulch to the plant row and return the trickle system to the top of the mulch hoping that the root system will grow up into the mulch. All three require a lot of work. The alternative is a dead block of ‘Duke’. This situation once again reminded me of the importance of site preparation before planting. Doing a soil boring before planting would have revealed the hard pan and the need for sub-soiling, something which is a lot easier to do before the plants are in the ground. There are some critical things to take care of before planting. Checking pH and adjusting it to 4.5 to 4.8, doing a soil boring and checking for hard pans and the seasonal high water table, and eliminating perennial weeds are at the top of the list. In the end, a little work early can eliminate a lot of head aches later.
INSECTS
Dr. Cesar Rodriguez-Saona, Extension Specialist in Blueberry Entomology, Rutgers University
Mr. Dean Polk, IPM Agent – Fruit
Mr. Gene Rizio, IPM Program Associate – Fruit

Sharpnosed Leafhopper (SNLH): Trap counts of adults have decreased, and most growers should have already applied their leafhopper insecticide. Please see enclosed graph. Sometime there is a “false peak,” and the adult population exhibits a second surge when populations are high. This usually happens only under very high insect pressure, and just on individual farms. The IPM program will continue to monitor those farms with high insect pressure.

![Graph showing Sharpnosed Leafhopper 2011](image)

**INSECT TRAP COUNTS**
Blueberry Trap Counts – Atlantic County

<table>
<thead>
<tr>
<th>Week Ending</th>
<th>CBFW</th>
<th>RBLR</th>
<th>OBLR</th>
<th>SNLH</th>
<th>Or. Beetle</th>
<th>BMSB</th>
<th>BBM</th>
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<tbody>
<tr>
<td>4/9</td>
<td>27.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/16</td>
<td>71.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/22</td>
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<td>76.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/30</td>
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<td>70.6</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/7</td>
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<td>31.7</td>
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<td></td>
</tr>
<tr>
<td>5/14</td>
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<td>12.4</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5/21</td>
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<td>0.1</td>
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<td>0.0</td>
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<td></td>
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<tr>
<td>5/28</td>
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<td>0.0</td>
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<tr>
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<td>20.1</td>
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<tr>
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<td>18.5</td>
<td>0.4</td>
<td>205.1</td>
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<td>61.1</td>
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<tr>
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<td>2.8</td>
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<td>1145.0</td>
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<td>838.1</td>
<td>0.1</td>
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<td>695.0</td>
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<td>7/23</td>
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<td>7.4</td>
<td>0.4</td>
<td>588.0</td>
<td>0.8</td>
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Blueberry Bulletin, Vol. XXVII, No. 21
Blueberry Trap Counts – Burlington County

<table>
<thead>
<tr>
<th>Week Ending</th>
<th>CBFW</th>
<th>RBLR</th>
<th>OBLR</th>
<th>SNLH</th>
<th>Ot.</th>
<th>BMSB</th>
<th>BBM</th>
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</thead>
<tbody>
<tr>
<td>7/30</td>
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<td>19.1</td>
<td>5.5</td>
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<td>0.5</td>
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<tr>
<td>8/6</td>
<td>3.2</td>
<td>0.4</td>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8/13</td>
<td>2.2</td>
<td>0.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8/20</td>
<td>0.6</td>
<td>0.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Blueberry IPM Training at Adams County Winery, Adams County, PA
(C. Rodriguez-Saona, Rutgers University and K. Demchak, PSU Dept. of Horticulture)

For a third year, a workshop on blueberry pest identification and monitoring techniques is being offered by personnel from Rutgers University in cooperation with personnel from the Atlantic Blueberry Company and Penn State. The workshop will be held in Adams County at Adams County Winery, owned by John Kramb and Katherine Bigler.

**Location:** Adams County Winery  
251 Peach Tree Road  
Orrtanna, PA  
17353-9753

**Date:** Tuesday, September 20, 2011

**Time:** 1:00-4:45 pm

**Workshop Description:** The Blueberry IPM Training Workshop will provide growers and extension agents with general information on pest management practices in blueberries. Emphasis of the workshop will be placed on sampling and identification of insect pests and...
Program
Part I:
1:00-1:15  Introduction: Speaker introductions, an overview of the Adams County Winery
operation, project outline, workshop objectives and materials
1:15-1:30  IPM Concepts: Principles of IPM and roles of scouting
1:30-2:00  Sampling in Blueberries: Where and how to sample
2:00-2:30  Common Blueberry Pests: What to look for
2:30-3:00  Break – Refreshments

Part II:
3:00-4:10  Field Demonstration: Hands-on sampling in blueberries
4:10-4:45  “Ask a Grower”

Registration
Please register for this workshop by calling the Adams County extension office at 717-334-6271
by 4:30 p.m. on September 16th. Please provide your name, an email address or phone
number where we may contact you if necessary, and tell us how many people from your
operation plan to attend. There is no charge for this program as all costs have been supported
by a NE-SARE grant.

Directions to Adams County Winery
To get to Adams County Winery from your specific location, visit their Web site at
http://www.adamscountywinery.com/farm.htm#directions . Adams County Winery is located 8
miles West of Gettysburg.

From the West (Chambersburg area), take Route 30 East until you reach the Old Route 30 split.
Make a slight right and travel on Old Route 30 for 2.2 miles, then take a right onto Bingaman
Road which you will follow for 1.6 miles. Turn right onto Peach Tree Road, and in 0.5 miles, you
will be at the winery.

From the East (Gettysburg area), take Route 30 West until you reach the Old Route 30 split.
Take a slight left onto Old Route 30 which you will follow for 2.4 miles. Turn left onto Orrtanna
Road. After 1.0 miles, turn right onto Bingaman Road and make an almost immediate left onto
Scott School Road, which you will follow for 0.4 miles. Make a right onto Peach Tree Road, and
you will be at the winery in 0.3 miles.

Sponsors: Costs of this workshop are defrayed by NE-SARE project LNE08-273 “Spatially
Based Whole-Farm Integrated Crop Management (ICM) Systems for Northeast Highbush
Blueberry Production”.

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Fruit Entomologist Position Search

Rutgers University and NJAES are currently hiring a new Fruit Extension Entomologist who will be housed at the Rutgers Agricultural Research and Extension Center (RAREC) in Upper Deerfield, NJ. The search committee has narrowed the list of excellent candidates down to three. These applicants will be interviewing for the position over the next several weeks. Each will present a research seminar on campus in New Brunswick and an extension seminar at RAREC. Both are open to the public and anyone with an interest in the position is invited to attend. The interview schedule is as follows:

**August 22 – August 23: Candidate 1**
Room 206: 11:30 am – 1 pm, Rutgers Cook Campus, New Brunswick, NJ
Tue 8/23 RAREC [http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs](http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs)
Extension Seminar - 11 am, Upper Deerfield, NJ

**August 29 – August 30: Candidate 2**
Room 206: 11:30 am – 1pm, Rutgers Cook Campus, New Brunswick, NJ
Tue 8/30 at RAREC [http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs](http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs)
Extension Seminar - 11 am, Upper Deerfield, NJ

**September 12 – September 13: Candidate 3**
Mon 9/12 RAREC [http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs](http://njaes.rutgers.edu/centers/default.asp?RAREC#ocs)
Extension Seminar - 11 am, Upper Deerfield, NJ
10:30-12, Rutgers Cook Campus, New Brunswick, NJ

For further information, call Department of Entomology at 732-932-9802.

New and Improved! Rutgers NJAES Website:
Rutgers New Jersey Agricultural Experiment Station has launched a redesigned website. Visit us at [http://njaes.rutgers.edu](http://njaes.rutgers.edu). This month’s spotlight: New Jersey Agricultural Leadership Development Program.

September is National Preparedness Month - Are you Ready Ag?

- ✔ FLOOD
- ✔ DROUGHT
- ✔ POWER OUTAGE
- ✔ DISEASE OUTBREAK
- ✔ TERRORIST INCIDENT
- ✔ WINTER STORM
- ✔ FIRE
- ✔ OTHER (shall we add earthquake?)

If a DISASTER hit your Farm today, would you still be in business next month?
A team of Extension professionals from across the US came together to develop an educational tool to assist farm and ranch managers become better prepared for any disaster. The tool is called ReadyAG—Disaster and Defense Preparedness for Production Agriculture.

Before disaster strikes, ReadyAG can help farmers and ranchers plan and prepare to prevent, mitigate, respond to, and recover from all types of damaging incidents. ReadyAG is designed to help identify vulnerabilities and prioritize actions to make agricultural operations more resilient and sustainable in the face of adversity.

ReadyAG begins with a general preparedness assessment then has commodity-specific sections including cattle, crops, dairy, fruit and vegetable, swine, and poultry. The assessments can be filled out online and will automatically populate a customized action plan to address items identified as vulnerabilities with a high priority to mitigate.

Farmers and ranchers who access the ReadyAG workbook will be encouraged to take the following steps:

- Identify vulnerable areas of production and management
- Prioritize areas to strengthen
- Create an action plan specific for an operation
- Develop an accurate inventory of assets
- Identify and engage local critical services
- Find additional helpful resources

The ReadyAG workbook can be found at http://readyag.psu.edu/.

The project was funded by a USDA Cooperative State Research, Education, and Extension Service (now the National Institute of Food and Agriculture) Special Needs project. Extension faculty and staff from Cornell University, Oklahoma State University, Rutgers—the State University of New Jersey, The Pennsylvania State University, The University of Vermont, University of Illinois at Urbana-Champaign, and University of Maryland contributed to the development of the ReadyAG assessment.

Through federal funding and leadership for research, education and extension programs, USDA’s National Institute of Food and Agriculture focuses on investing in science and solving critical issues impacting people's daily lives and the nation's future. More information is available at: www.nifa.usda.gov.

Submitted by Rick Van Vranken, Atlantic County Agricultural Agent
Oriental Beetle Management For Highbush Blueberries Using Mechanically Applied SPLAT

Specialized Pheromone & Lure Application Technology
There are few options available for farmers to combat the Oriental Beetle other than traditional application of pesticides; this is especially true for the blueberry farmer. ISCA Technologies has developed a revolutionary tool for effective, long lasting management of Oriental Beetle through mating disruption and attract & kill techniques. Together with Rutgers University, we’ve performed field trials which show that the beetle is attracted to SPLAT point sources containing pheromone, which can be combined with low dose insecticides to create a powerful species-specific attract & kill system. Growers will also benefit from the flowable quality of the SPLAT matrix, which allows for mechanical application. While this product is not yet labeled, it should be available in the near future.

Want to know more?
Join us at the Rutgers Marucci Center Field Day event starting at 9AM with a brief indoor presentation about SPLAT and Oriental Beetle mating behavior followed by field demonstrations on mechanical application of SPLAT. Representatives from both ISCA Technologies and Rutgers will be present to answer questions.

Where:
Rutgers Marucci Center
125A Oswego Rd.
Chatsworth, NJ 08019

Time:
September 27, 2011
9:00AM – 12:00PM

RSVP with Lyndsie Stoltman:
lyndsie.stoltman@iscatech.com