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Integrated Pest Management for Commercial Horticulture

ipmnet.umd.edu

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If you work for a commercial horticultural business in the area, you can report insect, disease, weed or cultural plant problems found in the landscape or nursery to sklick@umd.edu

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Pest and Beneficial Insect Information: Stanton Gill and Paula Shrewsbury (Extension Specialists) and Brian Clark (Extension Educator, Prince George's County)

Disease Information: Karen Rane (Plant Pathologist) and David Clement (Extension Specialist)

Weed of the Week: Chuck Schuster (Extension Educator, Montgomery County)

Cultural Information: Ginny Rosenkranz (Extension Educator, Wicomico/Worcester/Somerset Counties)

Fertility Management: Andrew Ristvey (Regional Specialist, Wye Research & Education Center)

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Fall Turf Field Day - November 7, 2012 (11 a.m. to 2 p.m.)

Sponsored by the Maryland Turfgrass Council and University of Maryland Extension

Location: Maryland Turf Farm, University of Maryland, College Park, MD
The speakers are Pete Dernoeden who will address weed issues, Tom Turner who will address the new Maryland Fertilizer Law and turfgrass cultivars, Mark Carroll who will address compost amendments, Kevin Mathias who will address grub issues and Dave Clement and Mary Kay Malinoski who will address mowing height and give out mowing guides.

There is no charge, but please RSVP to Dave Clement, clement@umd.edu for the head count for lunch.

Brown Marmorated Stink Bug Update

Mark April 11, 2013 on your calendar. We are setting up a one day session on the most current brown marmorated stink bug research and what you can do with this information. Brian Kunkel, University of Delaware, Eric Day, Virginia Tech, Karen Rane, David Clement, Mary Kay Malinoski, Suzanne Klick and Stanton Gill, University of Maryland Extension, are developing the topics and contacting researchers to present at this conference. We are working to confirm the location, but it will most likely be held at the Howard Community College in Columbia, Maryland.

Brown Marmorated Stink Bug Saga - From Stanton

It is was cool last weekend and the BMSB activity subsided for a little while. Last week was wild to say the least. My cell phone rang from Wednesday through Friday with everyone saying their customers were being invaded by BMSB. We received lots of novel stories on this bug. One landscape manager said an apartment complex manager stationed building maintenance workers near entrance doors at their apartment, armed with shop vacs. They were instructed to vacuum all of the bugs they could before they fell onto the residents when they left the building. A couple of garden centers reported that they were being invaded and it was impeding their plant sales. A restaurant called and said they were desperate since they had an outdoor eating area of the business and the bugs were falling on people while they ate. Here at CMREC, we had to have a technician come out to take apart the document feeder on the copier because we were getting the message that it was jammed even though we could not see any paper hidden anywhere. The technician found a stink bug blocking the sensor which kept it from working. We had BMSB on the CMREC research facility building last week but we actually enjoyed it, well at least I did. Fortunately, the stink bug population is nothing like it was in the fall of 2010. If you have an interesting story or picture on BMSB, send it along to sgill@umd.edu. Pictures and stories will be posted next week in the IPM Alert.

High Temperature Trigger: The unseasonably warm humid weather made the BMSB go somewhat hyper active last week and we hope they will calm down this week. The end is not here yet since they will continue to enter people's house through the next month or so. We posted a special BMSB section to our website at <http://ipmnet.umd.edu/bmsb/index.htm> with updates and articles that you can print out and give to your customers. This website location is also linked to the national BMSB website so you can get all of the latest information. We will keep you informed as we learn new and better control and trapping methods.

Control: A bee keeper called and let me know that he found a good trapping method. He rolled up white paper into a funnel, with the top wide and the bottom rolled into a tight point. He tapes these traps to the side of his house. The BMSB accumulate in the traps over night and he comes out early in the morning while they are still cool and rolled up the funnels and destroys them in his fireplace fire.



A wheel bug feeds on a brown marmorated stink bug
Photo: Steve Black, Raemelton Farm



Praying mantids are another generalist predator that feed on brown marmorated stink bugs

Japanese Cedar Longhorned Borer

This week, we had just finished a 3-hour training on plant diagnostics with LCA and we showed the participants samples of cedar longhorned beetle and their damage to Leyland cypress. When we returned to CMREC, we found that John Davis, Bartlett Tree Experts, had dropped an Emerald Green arborvitae sample by our lab. The branches were dying back on the plants that had been installed a year or two ago into a Baltimore County landscape. John had dug out a beetle with a reddish abdomen for us to identify. It was a female Japanese cedar longhorned beetle. Last fall, this beetle was reported to be active in Harford County. This is the first time we have found it in Baltimore County.

If you see damage this fall send photos or samples to Stanton Gill, CMREC, 11975 Homewood Road, Ellicott City, MD 20142 or sgill@umd.edu. The adult females overwinter in branches of infested plants. Examine cedar, arborvitae, and Leyland cypress. It is reported in some pines in other states. Dan Gilrein, Cornell Cooperative Extension, noted that they usually see adults in April and May in New York and that bifenthrin (Onyx) is labelled for control. Dan has mainly seen these beetles on stressed plants in the Long Island area



Japanese cedar longhorned beetle: Close-up of gallery in stem (top left), adult female (bottom left) and damage on arborvitae (right)

Weed of the Week, Chuck Schuster

Giant foxtail, *Setaria faberi*, is a weed growing tall at this time of year. This summer annual grows in clumps, has a fibrous root system and is found throughout the United States. Leaf blades of giant foxtail can be up to sixteen inches in length, and width is between one half and one inch. Upon close examination, the leaf blade will be found to have small hairs covering most of the upper surface and margin except near the leaf base. The inflorescence, (flower and seed head) of giant foxtail is where the plant gets its name. When fully mature, the seed head looks like the tail of the fox and droops. It is cylindrical with many spikelets. Each spikelet will have between one and three bristles that are one quarter to one half inch long.



Giant foxtail
Photo: John D. Byrd, Mississippi State University, Bugwood.org

Control of giant foxtail needs to start early in the season. Most pre emergent grass weed control will control giant foxtail. Post emergent control can be obtained easily using glyphosate products.

Plant of the Week, Ginny Rosenkranz

Conoclinium coelestinum

(formerly known as *Eupatorium coelestinum*) also known as the mistflower or hardy ageratum is a native herbaceous perennial which waits until July to bloom and continues to October with fuzzy blue flowers. The plants grow 2-3 feet tall and are adaptable to many soil types but prefer a rich organic soil or a heavy clay soil as it likes moist or wet sites. It loves full



Mistflower in bloom
Photos: Ginny Rosenkranz,
UME

sun locations but can handle part shade and is found growing wild in ditches, wet meadows and damp lightly wooded areas. Mistflower is cold hardy in USDA zones 5-11 and prefers a soil pH from slightly acid to neutral. The leaves are opposite and slightly triangular with a bluntly toothed margin. It spreads by rhizomes, and in moist areas it could naturalize to become a pest. To control the spread of mistflower, divide the clump every 3 years. The fuzzy blue to blue violet flowers provide a food source for the late summer butterflies like monarchs, skippers and swallowtails. Possible diseases include powdery mildew, downy mildew, grey mold, crown rot and botrytis. Insect pests include aphids, leafminers, scale and root knot nematodes.

Degree Days (As of October 18)*

Baltimore, MD (BWI)	4271	Dulles Airport	4118
Frostburg, MD	2607	Martinsburg, WV	3796
National Arboretum	4865	Reagan National	4865
Salisbury	4401		

*As of May 11, degree day calculations are from weather.com growing degree day calculations instead of NOAA min and max temperatures. To check degree day (DD) accumulations in your local area go to: <http://www.weather.com/outdoors/agriculture/growing-degree-days/USMD0100>

Advanced Nutrient Applicator Training for In-Ground Nursery Growers

Getting to Know Your Soils (*Multiple Dates, Multiple Locations, 1:00 to 4:00 PM*)

Locations:

November 13, 2012 – Wye Research and Education Center, Queenstown, MD

November 27, 2012 - University of MD Extension Baltimore County Office, Cockeysville, MD

December 4, 2012 - University of MD Extension Montgomery County Office, Derwood, MD

Contact: Debby Dant, 410-827-8056 X115, ddant@umd.edu

For more details:

http://ipmnet.umd.edu/conferences/docs/Advanced_Nutrient_Applicator_Training-Soils_2012.pdf

Upcoming Programs

Fall Turf Field Day

November 7, 2012

Location: University of Maryland Turf Farm, College Park, MD
RSVP for lunch count: Dave Clement, clement@umd.edu

2012 Delaware Ornamental and Turf Workshop

November 14, 2012

Hockessin, Delaware 19707

Contact: 888-448-1203

Southern Maryland Urban Pest Conference

November 28, 2012

Location: Baden Fire Hall, Baden, MD

Contact: Brian Clark, 301-868-8780

2012 Pest Management Conference

December 13, 2012

Location: Carroll Community College, Westminster
ipmnet.umd.edu

Advanced Landscape Plant IPM PHC Short Course

January 7-10, 2013

For registration information contact:

Contact: Avis Koeiman, 301-405-3913

akoeiman@umd.edu

MAA Winter Conference

January 16 and 17, 2013

Location: Turf Valley, Ellicott City, MD

Contact: 410-321-8082

Delaware Horticulture Industry Expo

January 23 & 24, 2013

Location: Modern Maturity Center, Dover, DE

Contact: 888-448-1203

Green Industry Professional Pesticide Recertification Seminar

January 24, 2013

Location: Northern Virginia Community College, Annandale Campus

Contact: Mary Bean, mbeanhouse@aol.com, 202-215-1134, www.greenindustryseminar.org

FALCAN Conference

January 30, 2013

Location: Frederick County Fairgrounds, Frederick, MD

Contact: Dan Felice, 301-606-8631

2013 Mid-Atlantic Horticulture Short Course

February 4 - 7, 2013

Location: Marriott at City Center, Newport News, VA

http://www.mahsc.org/

Eastern Shore Conference Pesticide Conference

February 13, 2013

Location: The Fountains, Salisbury, MD

Contact: Ginny Rosenkranz, 410-749-6141

2013 Chesapeake Green: A Horticulture Symposium

February 14 and 15, 2013

Location: Maritime Institute, Linthicum Heights, MD

LCA Winter Conference

February 14, 2013

Contact: 301-948-0810, http://www.lcamddcva.org/

Maryland Christmas Tree Association Winter Meeting

February 23, 2013

Friendly Farms Restaurant, Upperco, MD

Contact: Wilma Muir, 410-452-9793

Southern Maryland Landscape Conference

March 6, 2013

Location: TBD, in Waldorf, MD

Contact: Brian Clark, 301-868-8780

Interstate Ornamental Plant Management Conference

April 3, 2013

Location: Maritime Institute, Linthicum Heights, MD

Contact: Avis Koeiman, 301-405-3913, akoeiman@umd.edu

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Photos are by Suzanne Klick or Stanton Gill unless stated otherwise.

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