Tree & Open Space Commission, Newport, Rhode Island * Information Bulletin #6 April 2012

Be on guard for <u>Unwanted</u> Tree Insects & Diseases in Newport's Arboretum

By David W. Brown, Daniel T. Christina, and Scott D. Wheeler

We Newporters and our visitors much enjoy our unique treescapes—not just those elegant specimens along our avenues and in our parks, but also the taken-for-granted trees that are comforting features of our homes, neighborhoods, workplaces, daily exercises and errands, and personal memories. But a whole bunch of insects and diseases like our trees just as much, in their own



ways. In this bulletin we highlight seven of the pests that bother Newport citizens or worry our arborists most. There are others that could hurt the health or appearance of your trees too.



For some <u>general tips</u> and <u>web links</u> that can help you keep up to speed on tree pests, preventatives and treatments, <u>see page 2</u>.

* Members of the Tree and Open Space Commission are appointed by the Newport City Council to help the Tree and Parks Supervisor (who serves also as Tree Warden) shape policies, provide public information, and conduct special programs, as provided by City Ordinance Chapter 12.36, "Tree and Open Space Preservation and Protection." For more about the Commission, City tree planting programs, and other bulletins in this series, see <u>www.cityofnewport.com</u> >departments>public services>trees. Susan Ruf is the current Commission Chair, and Rob Currier is the Vice Chair. The Tree and Parks Supervisor, Scott Wheeler, can be reached at 401-845-5802 and <u>swheeler@cityofnewport.com</u>. He and the Commission welcome your suggestions for topics that would be useful to address in the future.

Some do's and don'ts about tree pest management...

Do keep an eye on your trees' health throughout the year. Better yet, 1) have a certified arborist monitor them, and 2) have a neighborhood tree watch that alerts everyone to bad pests and affords joint action.

Do pay heed, if you see some signs of unwanted tree visitors, like...

- Leaves with spots, or holes, or white cottony scale underneath
- Dark sticky stuff oozing from tree trunks (beeches especially)
- Holes drilled by insects in tree trunks
- Moths flying around nearby
- Inch worms on the bark
- Dark soot coming down from Lindens and others

But don't panic. Some insects and diseases can indeed be very bad for your trees and maybe Newport's urban forest as a whole. But others make trees ill and create a mess, yet may not be devastating if you provide good soil and moisture conditions that help those trees to rebound.

Do let the Newport Tree Warden know (email <u>swheeler@cityofnewport.com</u>, phone 401-845-5802) if you think you have evidence of a serious pest that has not been seen in Newport before.

Don't dump all sorts of chemicals onto your trees in hopes of keeping pests away. Many do not work. Some harm humans, pets, and beneficial insects. Many have bad residuals that may drain into Newport's harbor, sea surroundings, streams, and drinking water sources. *Before you act, do study solid information or consult a qualified, environmentally minded specialist*. Be cautious about sources that are trying to sell something. Try to devise a pest-management program that uses fewer chemicals, is effective, and uses your budget well.

Some useful web links...

<u>www.newporttreesociety.org>learn>abouttrees</u> The Newport Tree Society, which has an active program for enhancing Newport's unique "Arboretum," has links to useful sites about tree care and pest management.

<u>www.ritree.org</u> The Rhode Island Tree Council passes along alerts from USDA and RIDEM about pests needing special attention and provides tips for dealing with them. It sponsors Tree Steward courses for interested citizens.

www.uri.edu/ce/ceec/plantclinic URI at Kingston has a <u>Plant Protection Clinic</u>. Send or take samples there. For \$10, they will identify insects, diseases or plant damage. See the <u>URI GreenShare Factsheets</u> for info about a variety of plant pests. Also, you can contact qualified volunteers at the <u>URI Gardening and Environmental Hotline</u>—phone 401-874-4836 or 1-800-448-1011, or email <u>gardener@etal.uri.edu</u>, M-Th, 9-2, Mar-Oct.

<u>www.extension.umass.edu/landscape/fact-sheets</u> Up-to-date fact sheets from UMass-Amherst about pests that attack trees and other urban plants.

<u>www.na.fs.fed.us>Urban & community Forestry</u> provides in-depth information about tree pests, current infestations and research, tree care, and related topics.

<u>www.treesaregood.com</u> This site of the International Society of Arboriculture provides reliable info about urban tree selection, care and pest management. Also you can see who are <u>ISA certified arborists</u> near us. (They have to pass special examinations and take regular update courses beyond having a routine RI arborist license.)

<u>www.bugwood.org</u> This site of the Center for Invasive Species and Ecosystem Health (U of Georgia) has many photos of insects and diseases that attack trees, as well as useful urban forestry links.



	Spring	Summer	Autumr	n Winter
Brown Marmorated Stink Bug Halyomprpha halys	Old adult eggs on le	Old adult bugs lay yellowish eggs on leaf undersides		
Has recently spread to RI. Sucks/destroys many fruits & crops. May be attracted by ornamental fruit trees & gardens, then try to enter		Nymphs become r bugs that feed on	new adult fruits & crops	
nearby buildings for winter warmth. Emits obnoxious odor when handled or threatened.	Can try pro worked we cracks, vac Researche trap and b	essional spraying, but hasn't I. Better to seal building ium bugs that show up. are working on attract-and- blogical approaches.		The bugs congregate & seek warm places for winter
Photo from Penn State University			/	



	Spring	Summer	Autumn	Winter
Turpentine Beetle DendroctonusBlack D. terebrans Red D. valensHave spread to New England from the South in recent years. Attacking and killing most types of pines in Newport.Chemicals do not control these beetles very well. Best to cut down infected pines, carefully remove the tree material, and replace with other kinds of trees.	Adult beetles e infected pines, tunnel into low sappy "pitch tu eggs in cambiu Adult (black) U of Florida	emerge from fly to new trees, ver trunks (leaving ubes" outside), lay m layers. Larvae groups fee fan-shaped patch fungus carried by damage. The larva	ed aggressively on car es (galleries) of chew the beetles and larva	ubes, Forest Service mbium layers, creating red wood. A "blue-stain" ae may cause further
	The over-wintering larvest become a new generat of beetles.	vae ion	Gall Ida	ery no Dept of Lands



Asian Longhorned Beetle Anoplophora glabripennis

A <u>serious threat</u> to many hardwood tree species! Has devastated urban forests near Worcester MA & elsewhere. No good way to control except to monitor carefully & cut down infected trees.

RI has quarantines against importing logs, fire wood, lumber, tree stock, etc. from ALB-infected places.

If you think you see ALB here, call our Newport City Tree Warden at 401-845-5802 or the toll-free USDA ALB hotline at 866-702-9938.

Photos by Melody Keena, US Forest Service, & Kenneth Law, USDA-APHIS, via Bugwood.org.





The seven pest profiles in this bulletin blend various sources of technical information with the authors' backgrounds. Dave Brown is a retired agri-resource economics professor and outreach educator who has background in plant and soil sciences, and who has served as a Commission member and chair. Dan Christina has a BS degree in horticulture, is Assistant Grounds Manager at Blithewold Mansion, Gardens & Arboretum in Bristol, and is a Commission member. Scott Wheeler is an ISA certified arborist who, besides his roles in Newport since 1994, has BS and MS degrees in urban forestry and park management, and commercial tree-care experience.

Especially if you are a professional who is working with tree-pest problems in and near Newport, we would appreciate your telling Scott Wheeler about needed corrections and updates. He is at 401-845-5802 and swheeler@cityofnewport.com.

The other bulletins in this series are also at <u>www.cityofnewport.com</u>. They include:

- #1 Clear low branches and shrubbery from walkways, streets and signs
- #2 Don't top trees!
- #3 The path to planting perky trees
- #4 So if you like Newport's magnificent beeches ... then please help take good care of them
- #5 Our Newport trees as atmosphere helpers and carbon bankers