

Insects: What's Coming Next?

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Viburnum Leaf Beetle (*Pyrrhalta viburni*) (Paykull)

- Susceptibility to VLB
www.hort.cornell.edu/vlb/suscept.html
- General VLB Information
www.hort.cornell.edu/vlb/manage.html

Brown Marmorated Stink Bug (*Halyomorpha halys*)

- Found in Allentown, PA 1996
- Originates from Asia
- Has spread to neighboring states and
- Gets moved accidentally by humans
- Feeds on fruits, vegetables, and ornamentals
- Causes necrotic spots, cat-facing, seed loss, introduction of pathogens
- Over-winters in buildings, etc.
- Emits a foul odor when handled

<http://ento.psu.edu/extension/factsheets/brown-marmorated-stink-bug>

'Move Over, Bedbugs, Stink Bugs Have Landed' (Ken Maguire: New York Times 9/26/10)

<http://www.nytimes.com/2010/09/27/us/27stinkbug.html>

Winter Moth (*Operophtera brumata*)

- 75,000 defoliated in eastern MA in 2010
- Adult activity in Nov / Dec of 2010 heavier than expected
- Will the weather condition of the winter of 2010 / 2011 affect winter moth numbers?
- Will egg hatch be accelerated again in 2011 as it was in 2010?
- The parasitoid fly, *Cyzenis albicans*, continues to be mass-reared and released in MA.

Elongate Hemlock Scale (*Fiorinia externa*)

- Commonly found now in MA
- Produces crawlers throughout much of the growing season = hard to manage
- Repeated horticultural oil sprays
- Safaritm (Dinotefuran) may show good results as a systemic insecticide.
- Naturally occurring parasitoid (*Encarsia citrina*) usually keep numbers low in forested areas.
- Capable of killing hemlocks

Hemlock Woolly Adelgid (*Adelges tsugae*)

- Continues to increase its' range
- All too commonly, it's being moved on nursery plants
- Stressed plants appear to succumb sooner
 - Massachusetts may be the dividing line between where it can establish and thrive or establish and occasionally be controlled by winter temperatures.

Natural Control for HWA:

Laricobius nigrinus (Native to Pacific Northwest. Its biology is closely timed to that of HWA)

http://biocontrolfornature.ucr.edu/2010_conferences_resources.html

(Then scroll down to: Mausel,Dave)

Emerald Ash Borer (*Agrilus planipennis*)

<http://emeraldashborer.info>

Much work planned to survey for EAB in Berkshire County, MA and western CT in 2011

- 'The Purple Trap'
 - o baited with Manuka oil from the Manuka tree (*Leptospermum scoparium*), which contains 4 compounds that stressed ash trees emit.

Asian Longhorned Beetle (*Anoplophora glabripennis*)

USDA: www.beetlebusters.info

Massachusetts: www.umassgreeninfo.org

MDAR: <http://massnrc.org/pests/alb>

ALB in Jamaica Plain, MA

- Grounds of Faulkner Hospital (July 3, 2010)
 - 1153 Center St. Jamaica Plain (Boston), MA
 - Six red maple trees all within 50' radius
 - Two fresh exit holes and two live adults
 - Ten more formed adults within the wood
 - Six pupae found
 - Thirty larvae found
 - All 6 trees removed and destroyed
- Faulkner Hospital: Jamaica Plain, MA July 3, 2010
ALB in Jamaica Plain, MA

- Survey work began on July 5, 2010
- As of Jan. 1, 2011:
 - approx. 40,000 trees ground-surveyed
 - No new ALB finds

Thousand Cankers Disease

- [Dr. Whitney Cranshaw](#) (Colorado State University)
- Dr. Ned Tisserat (Colorado State University)
- Dr. Mark Windham (University of Tennessee)
- www.thousandcankerdisease.com
- www.ext.colostate.edu/pubs/insect/0812_alert.pdf

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