

Three Invasive Insects in Vermont, New Hampshire, and Maine

Alan T. Eaton

UNH Cooperative Extension

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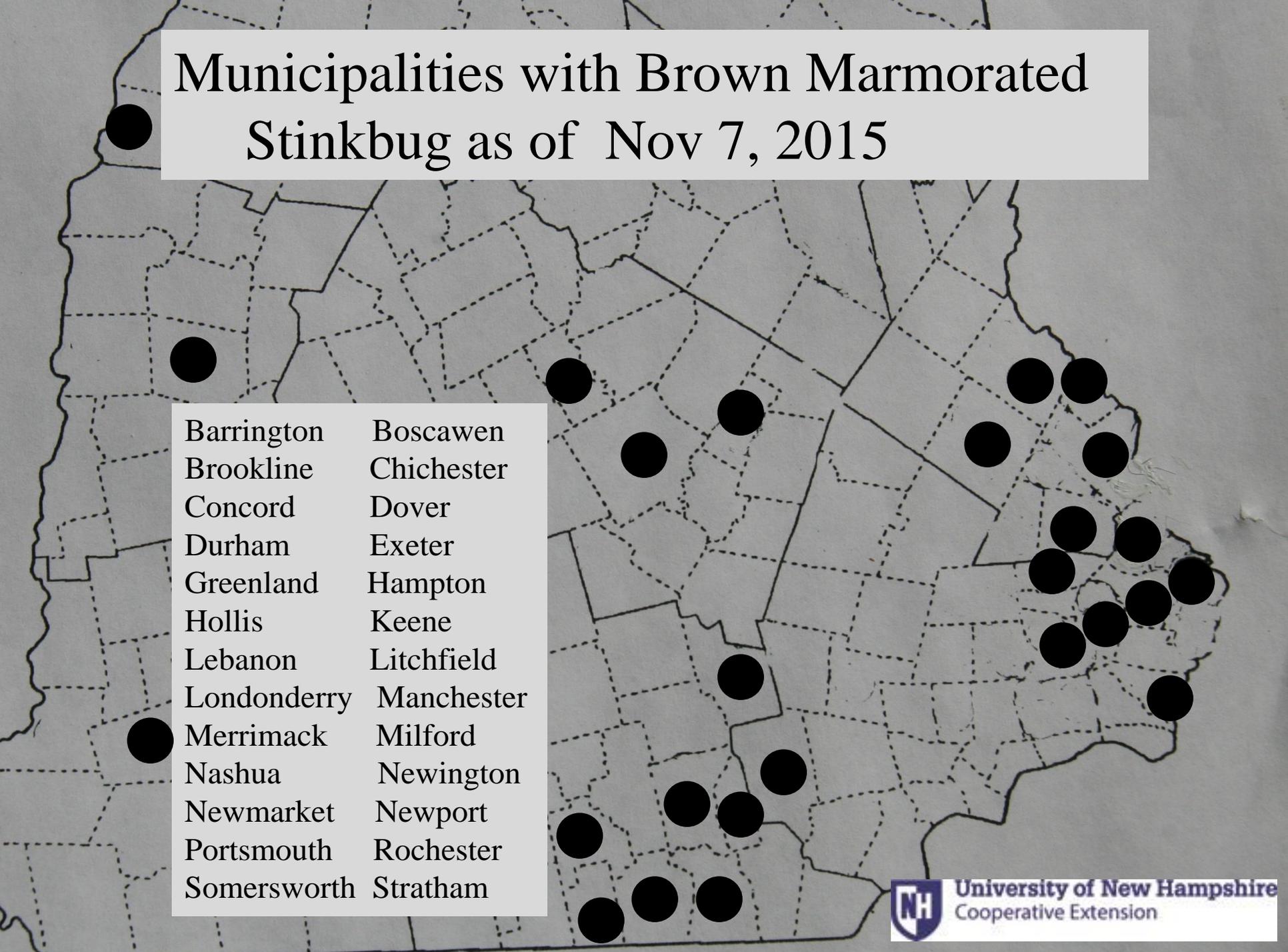
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Brown Marmorated Stinkbug

Discovered in
ME 2006
NH 2010
VT 2011



Municipalities with Brown Marmorated Stinkbug as of Nov 7, 2015



Barrington	Boscawen
Brookline	Chichester
Concord	Dover
Durham	Exeter
Greenland	Hampton
Hollis	Keene
Lebanon	Litchfield
Londonderry	Manchester
Merrimack	Milford
Nashua	Newington
Newmarket	Newport
Portsmouth	Rochester
Somersworth	Stratham



The first BMSB damage in agricultural crops close to New England was apple injury in the southern Hudson Riv. Valley of New York, in 2013.

In 2014, some Connecticut orchards had significant BMSB's and damage.

In 2015 damage was more widespread in Hudson Riv. Valley and CT.





We have been trapping in NH
since 2011.

We caught 2 BMSB's in 2014

We caught 46 in 2015





Trissolcus japonicus is a Chinese egg parasite of BMSB being studied by USDA in quarantine, for release in the USA. It was also discovered this year in MD and WA (did not escape).

SWD (spotted wing drosophila) was discovered in NH/ME/VT Sept. 2011.

NH damage:

2012: \$1,516,000

2013: \$529,000

2014: \$224,000

2015: Similar?



2015 Populations

In both 2014 and 2015, SWD populations in New England increased more slowly than before, and totals were lower than in previous years.

Cooler summer temperatures may have contributed in 2015, and it is possible that natural enemy pressure has increased.

Northern VT/NH/ME has lower numbers than southern VT/NH/ME.



Emerald Ash Borer attacks only Ash (*Fraxinus*). Highly mobile!



Photo: David Cappaert,
Mich State Univ. Bugwood.org

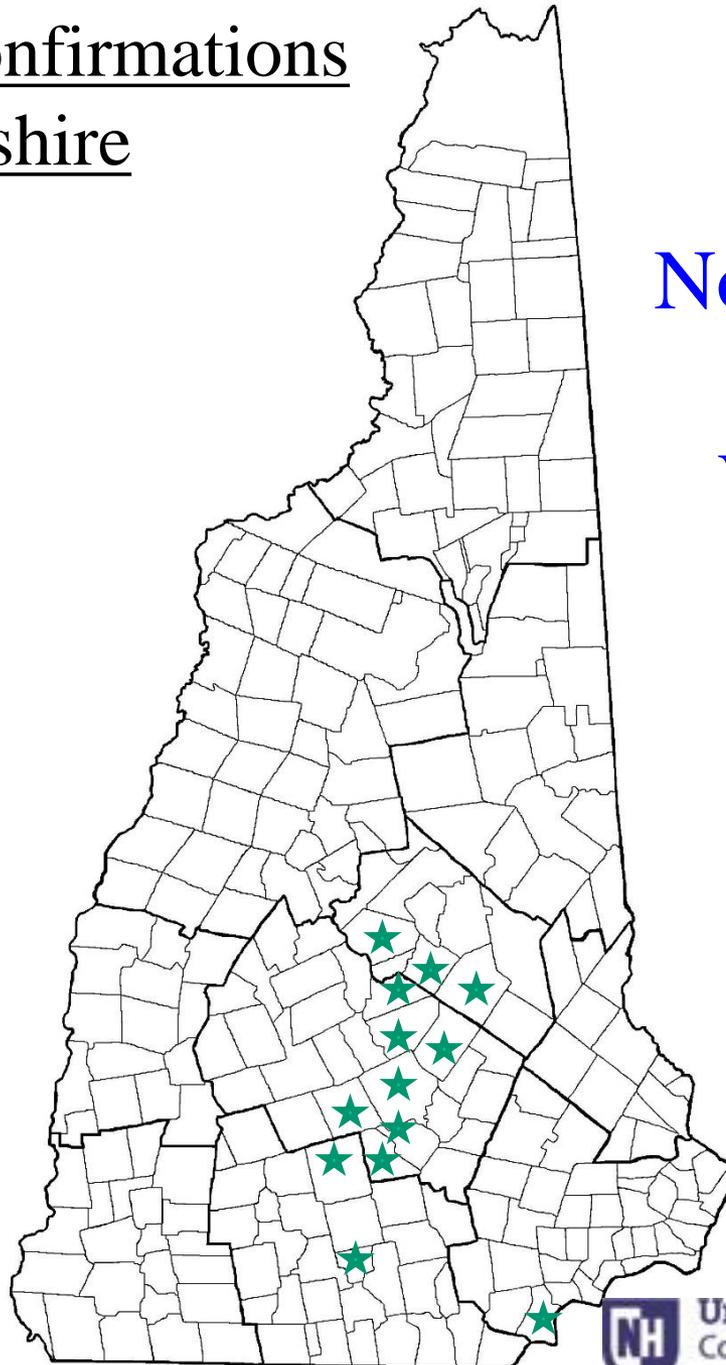


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Emerald Ash Borer Confirmations

New Hampshire

Bow	2013
Concord	2013
Canterbury	2014
Hopkinton	2014
Loudon	2014
Salem	2014
Weare	2014
Mont Vernon	2015
Northfield	2015
Dunbarton	2015
Belmont	2015
Gilmanton	2015
Sanbornton	2015



Not yet found
Maine
Vermont





Kills:
White ash
Green ash
Black ash

**Firewood & log quarantines in
Belknap, Merr., Hillsb., Rock.
Counties**



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Questions?

