

Three Invasive Insects in Vermont, New Hampshire, and Maine

Alan T. Eaton

UNH Cooperative Extension

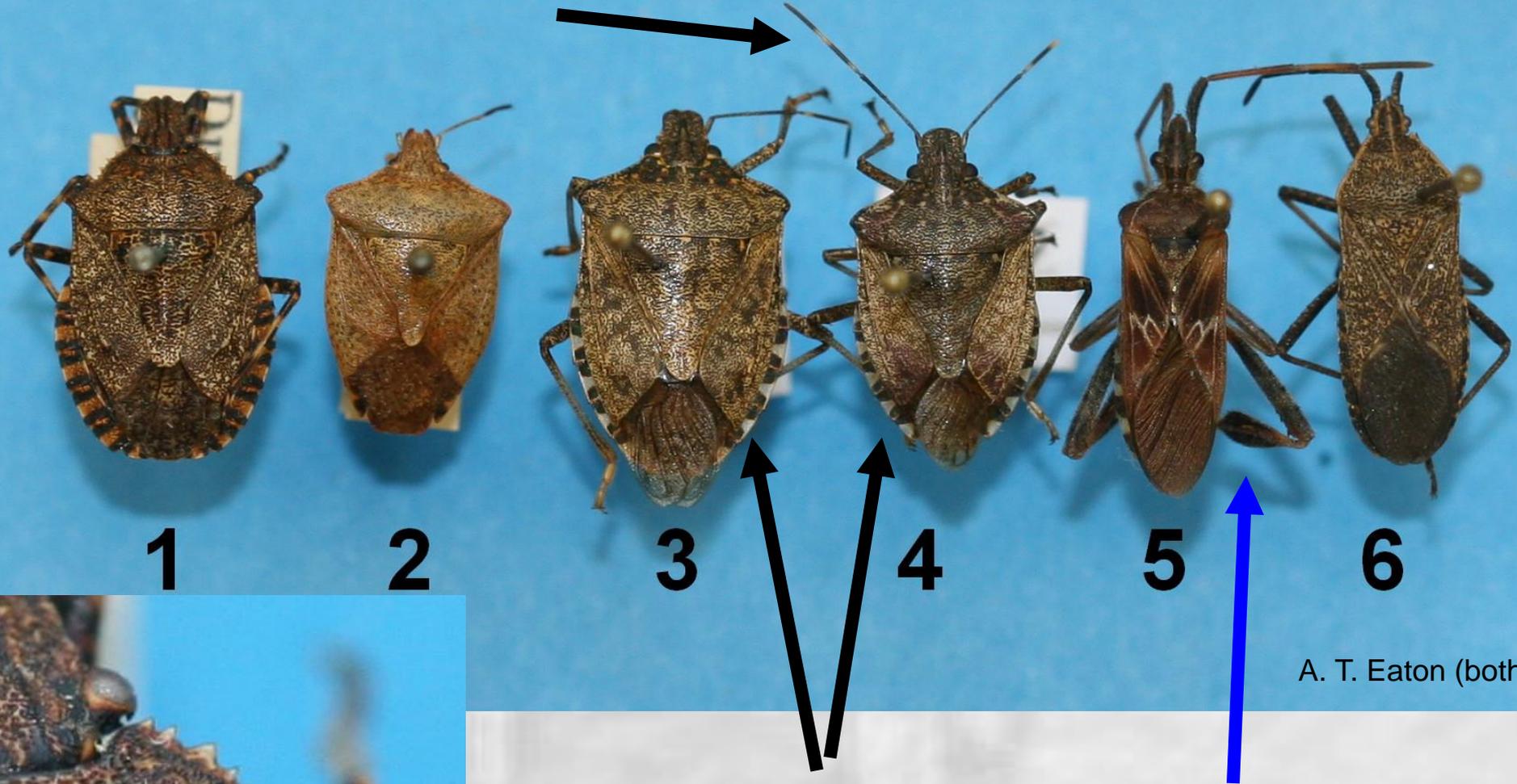
January 7- 9, 2014

Brown Marmorated Stinkbug

Discovered in
ME 2006
NH 2010
VT 2011



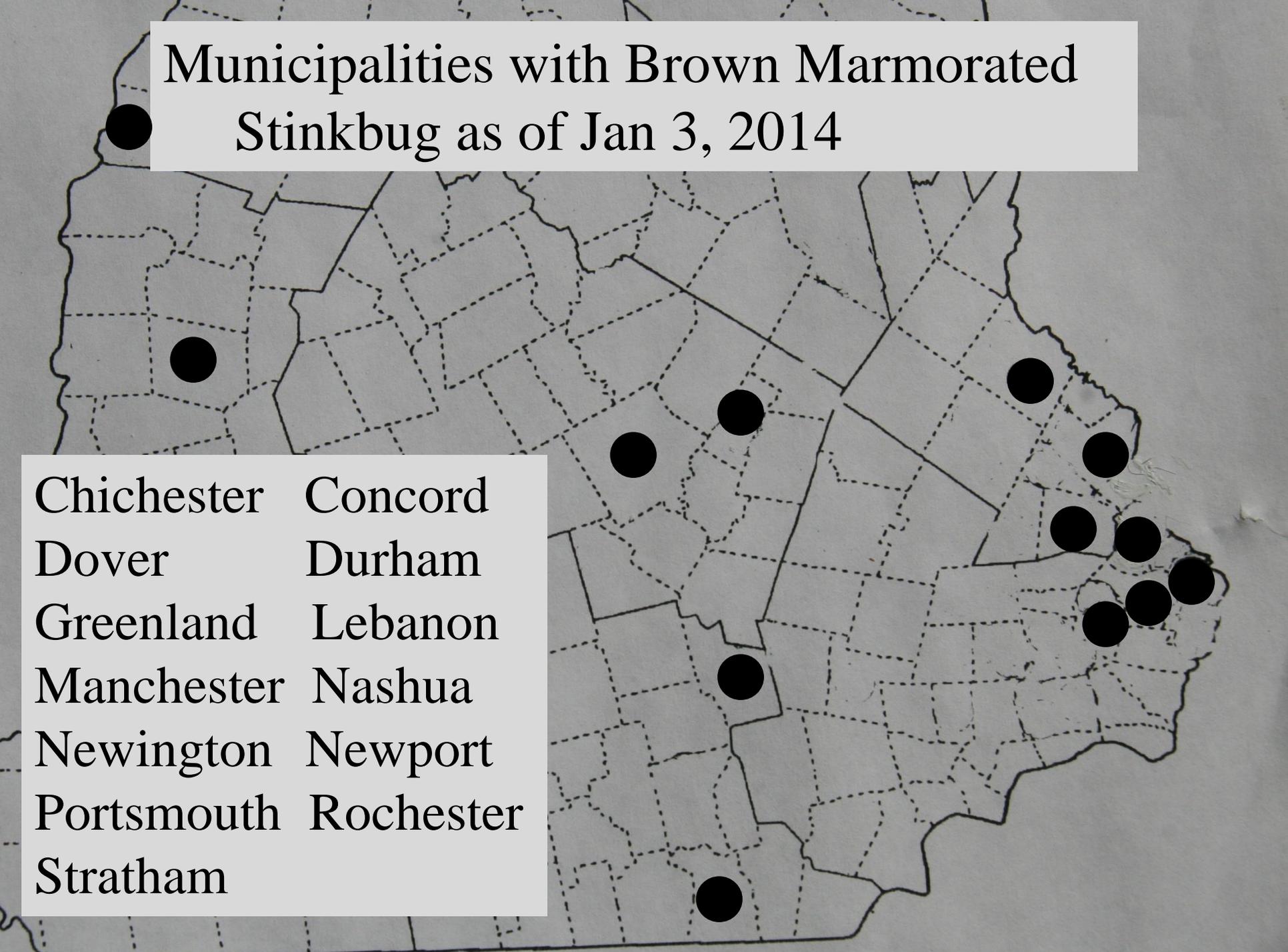
Brown Marmorated Stinkbug



A. T. Eaton (both)

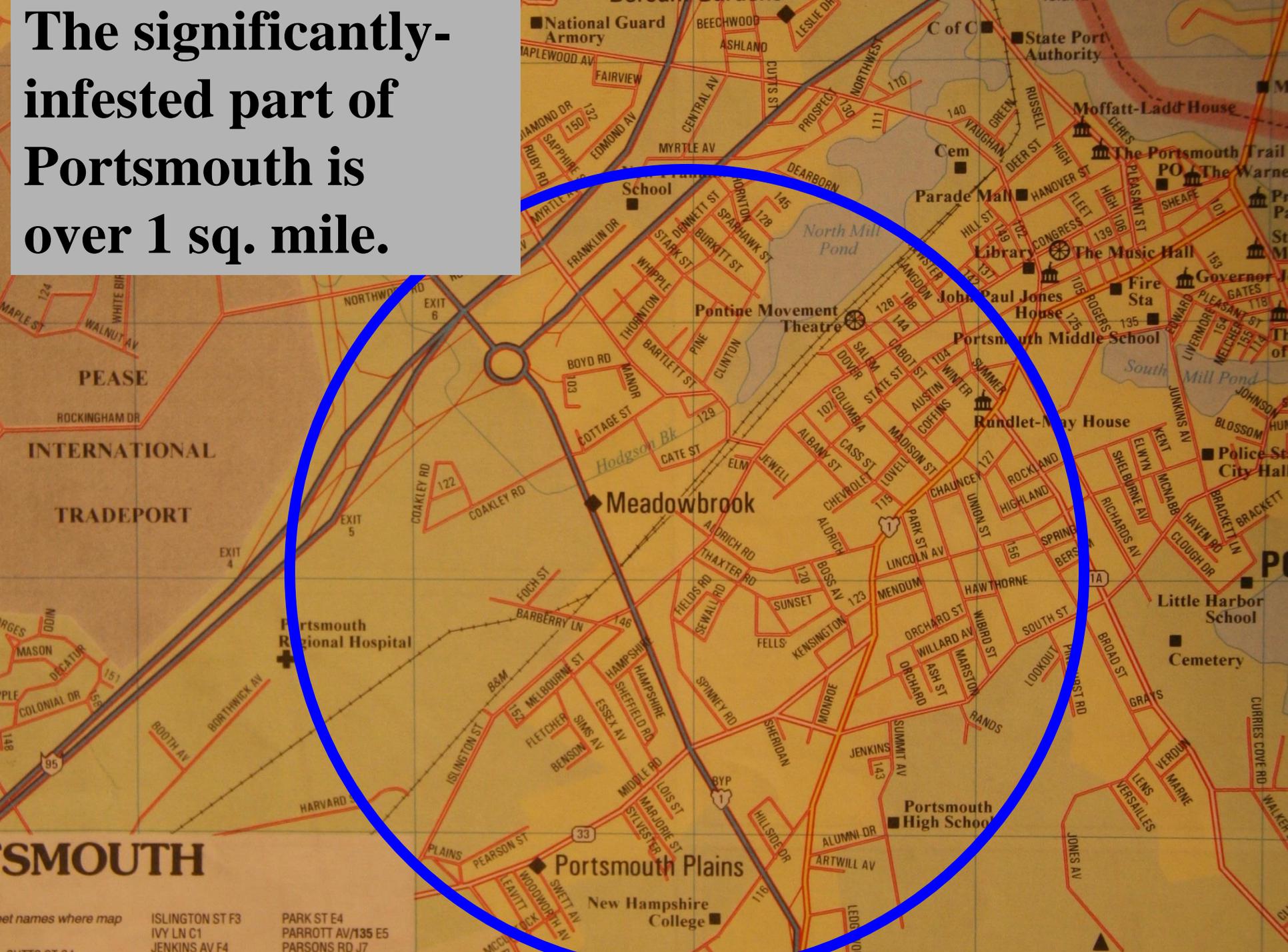


Municipalities with Brown Marmorated Stinkbug as of Jan 3, 2014



Chichester Concord
Dover Durham
Greenland Lebanon
Manchester Nashua
Newington Newport
Portsmouth Rochester
Stratham

The significantly-infested part of Portsmouth is over 1 sq. mile.





Our numbers are VERY LOW, compared to those in Maryland and West Virginia.

It will take years before they become serious agricultural pests here.

Down south they attack:

Peaches, apples, tomatoes, corn, beans, ornamental trees & shrubs...

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

**In 2012 it
ruined
\$1.519M of
NH fruit.**



Unlike our other Drosophilids, the female of SWD has a saw-edged egg-layer, enabling it to lay eggs through the skin of sound fruit.



**Most serious damage here:
bramble fruit
blueberries**

**So far escaped:
Cherries
June strawb.
Early blueb. &
brambles**



Less damage in Northern VT, NH, ME



Sept 13, 2012
Stephentown, NY

2014:

1. **Attack should begin July 2-8.**
2. **Heavy attack (Blueb, Brambles) by July 25th... (later farther north)**
3. **Highest numbers will be Sept/Oct.**
4. **Sanitation will be important: Remove and destroy all over-ripe fruit promptly. Dumping it on a pile does not destroy it!**
5. **Frequent monitoring will be needed.**
6. **Controls should be tied to monitoring.**



Spraying

1. Spinosad, Malathion, Syn.Pyrethroids

2. Spraying interrupts PYO picking patterns. Sprays control for 1- 6 days

3. Pesticide effectiveness:

<http://www.ipm.msu.edu/SWD.htm>

4. SWD in NH website:

<http://extension.unh.edu/Agric/AGPMP/Spottedwingdrosophila.htm>

Fruit Quality

Refrigerate fruit!!

Lightly infested fruit probably can be eaten (soon) with no noticeable effects.

Infested fruit that are held for several days will decompose quickly.

Emerald Ash Borer hasn't been found in VT or ME yet. In NA it hits only Ash (*Fraxinus*). Highly mobile!



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

Discovered in USA: Michigan 2002

Indiana, Illinois, New York

Ontario, Ohio

Pennsylvania

West Virginia, Wisconsin

2012: Tolland, CT,

Berkshire Co, MA

2013: Concord, NH, Andover MA



Kills:
White ash
Green ash
Black ash

**Out-of-state firewood quarantine
Merrimack Co. quarantine**



Questions?