



Pest management Resources Online for New England  
(*PRONewEngland.org*)



Dear Maple Producer,

With your help and with the help of growers throughout New England, the University of Vermont Extension in cooperation with the universities of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island are creating an overview of pest management practices in maple sugarbushes in New England. The first step in the process is to gather accurate information on current practices.

The survey results will be useful to Extension staff, EPA, USDA and others for identifying research, education, and regulatory needs in New England. Being able to cite a survey with many responses is an advantage when applying for funds to support Extension and research. Your help in filling out the survey will help us better understand your needs, and will benefit you through enhanced education and research programs.

Please take the time to fill out the enclosed survey. We need your information if we are to develop an accurate picture of your needs and those of your neighboring growers. Please note, the information that you give us will be strictly confidential.

If you have any questions please feel free to contact Ann Hazelrigg at (802) 656-0493 or email [ann.hazelrigg@uvm.edu](mailto:ann.hazelrigg@uvm.edu).

Thank you very much for your assistance.

Sincerely,

Ann Hazelrigg, Sarah Kingsley-Richards  
University of Vermont

Dr. Candace Bartholomew  
University of Connecticut

Dr. James Dill, Glen Koehler  
University of Maine

Natalia P. Clifton, Dr. Patricia Vittum  
University of Massachusetts

William Lord  
University of New Hampshire

Dr. Steven Alm, Margaret Siligato  
University of Rhode Island

If you have any questions about this survey please contact  
Ann Hazelrigg at (802) 656-0493 or email at [ann.hazelrigg@uvm.edu](mailto:ann.hazelrigg@uvm.edu)



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## Maple Sugarbush Pest Management Survey

*This survey should be completed by the person most responsible for maple sugarbush management decisions in your operation.*

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**\*\*\*START HERE\*\*\***

**Do you manage a sugarbush that produces maple syrup?**  
(Please circle your answer)

**Yes** ----> continue with question 1 on the following page

**No** ----> if no, please return this questionnaire using the self-addressed stamped envelope -Thank you!

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**General Maple Sugarbush Pest Management Information:**

**A1. Which of these INSECTS are annual pests, occasional pests, or are never a problem in your sugarbush?** (Please circle an answer for each)

Pear Thrips	Annual pest	Occasional pest	Never a problem	Unknown
Gypsy Moth	Annual pest	Occasional pest	Never a problem	Unknown
Forest Tent Caterpillar	Annual pest	Occasional pest	Never a problem	Unknown
Maple Leafcutter	Annual pest	Occasional pest	Never a problem	Unknown
Bruce Spanworm	Annual pest	Occasional pest	Never a problem	Unknown
Sugar Maple Borer	Annual pest	Occasional pest	Never a problem	Unknown
Saddled Prominent	Annual pest	Occasional pest	Never a problem	Unknown
Maple Trumpet Skeletonizer	Annual pest	Occasional pest	Never a problem	Unknown
Lecanium Scale	Annual pest	Occasional pest	Never a problem	Unknown
Asian Longhorned Beetle	Annual pest	Occasional pest	Never a problem	Unknown
Emerald Ash Borer	Annual pest	Occasional pest	Never a problem	Unknown
Other insects/mites (Specify: _____)	Annual pest	Occasional pest		
Other insects/mites (Specify: _____)	Annual pest	Occasional pest		

**A2. Were insecticides applied in your sugarbush in 2008?** (Circle answer)

**Yes or No**

**A3. Which of these DISEASES are annual pests, occasional pests, or are never a problem in your sugarbush?** (Please circle an answer for each)

Maple Anthracnose	Annual pest	Occasional pest	Never a problem	Unknown
Nectria Canker	Annual pest	Occasional pest	Never a problem	Unknown
Eutypella Canker	Annual pest	Occasional pest	Never a problem	Unknown
Armillaria	Annual pest	Occasional pest	Never a problem	Unknown
Other diseases (Specify: _____)	Annual pest	Occasional disease		
Other diseases (Specify: _____)	Annual pest	Occasional disease		

**A4. Were fungicides applied in your sugarbush in 2008?** (Circle answer)

**Yes or No**

**A5. Which of these WEEDS (ANY SPECIES OTHER THAN SUGAR MAPLE) are annual pests, occasional pests, or are never a problem in your sugarbush?** (Please circle an answer for each)

Buckthorn	Annual pest	Occasional pest	Never a problem	Unknown
Barberry (Japanese)	Annual pest	Occasional pest	Never a problem	Unknown
Common Barberry	Annual pest	Occasional pest	Never a problem	Unknown
Honeysuckle	Annual pest	Occasional pest	Never a problem	Unknown
Euonymus (burning bush)	Annual pest	Occasional pest	Never a problem	Unknown
Garlic Mustard	Annual pest	Occasional pest	Never a problem	Unknown
Oriental Bittersweet	Annual pest	Occasional pest	Never a problem	Unknown
Norway Maple	Annual pest	Occasional pest	Never a problem	Unknown
Other species (Specify: _____)	Annual pest	Occasional pest		
Other species (Specify: _____)	Annual pest	Occasional pest		

**A6. What percentage of trees in your stand are other tree species?**  
 (Please fill in your answer – Only count trees >4” diameter)

\_\_\_\_\_ % other tree species

**A7. Were herbicides applied in your sugarbush in 2008?** (Circle answer)

**Yes or No**

**A8. Which of these VERTEBRATES are annual pests, occasional pests, or are never a problem in your sugarbush?** (Please circle an answer for each)

Deer	Annual pest	Occasional pest	Never a problem	Unknown
Red Squirrel	Annual pest	Occasional pest	Never a problem	Unknown
Porcupine	Annual pest	Occasional pest	Never a problem	Unknown
Fisher Cat	Annual pest	Occasional pest	Never a problem	Unknown
Moose	Annual pest	Occasional pest	Never a problem	Unknown
Woodpecker	Annual pest	Occasional pest	Never a problem	Unknown
Other vertebrate (Specify: _____)	Annual pest	Occasional pest		
Other vertebrate (Specify: _____)	Annual pest	Occasional pest		

**A9. Have you ever managed these pests in your sugarbush?** (Circle answer)

**Yes or No**

**Specific Maple Sugarbush Pest Management Strategies:**

**B1. Please list the NON-PESTICIDE METHODS used to manage or prevent pests (if applicable), the pest(s) targeted, application details, and whether the control was excellent, good or poor.**

(Please fill in your answers –be as specific as possible)

NOTE: Methods include fewer taps, sticky traps, hand-removal of larvae, pruning out damage, thinning trees, weed management, remove wild hosts, fencing, noise devices, repellants, etc.

<b>Non-pesticide Method(s)</b>	<b>Pest(s) Targeted</b> (Insect, Disease, Weed, Vertebrate)	<b>Number of Times Method Used in a Typical Year</b>	<b>When Method Used</b> (Spring, Summer, Fall, Winter, or Month)	<b>Type of Application</b> (Spot treatment, Entire sugarbush, aerial application, etc.)	<b>Effectiveness of Method</b> (Excellent, Good, Poor)	<b>Anticipated Loss of Yield if method not used</b> (<25%, <50%, 50-75%, 100%, etc.)
<i>EXAMPLE: Pruning out larval colonies</i>	<i>Gypsy Moth</i>	<i>Three</i>	<i>June</i>	<i>Spot</i>	<i>Excellent</i>	<i>50-75%</i>
<i>EXAMPLE: Thinning</i>	<i>Norway Maple</i>	<i>One</i>	<i>Summer</i>	<i>Spot</i>	<i>Excellent</i>	<i>50-75%</i>



**Pesticide Practices:**

NOTE: If you do not use pesticides to manage a pest, please skip to the next section.

**C1. Please indicate how often each of the listed activities would require worker presence in an area within 30 days after that area had received a pesticide (insecticide, fungicide, herbicide etc.) application. (Please circle an answer for each)**

Hand weeding	Multiple times a year	Once a year	Rarely/Never
Pruning	Multiple times a year	Once a year	Rarely/Never
Thinning	Multiple times a year	Once a year	Rarely/Never
Scouting	Multiple times a year	Once a year	Rarely/Never
Tapping	Multiple times a year	Once a year	Rarely/Never
Other	Multiple times a year	Once a year	Rarely/Never

(Specify: \_\_\_\_\_)

**Pest Management Decision Making:**

**D1. Please select the option that best describes your use of monitoring for pests in your sugarbush.**  
(Circle the best answer)

- a) No monitoring done.
- b) Management based on informal observations.
- c) Management based on formal monitoring (traps or other standard procedures and record keeping).

**D2. How important are these information sources in making your pest management decisions?**  
(Please circle an answer for each)

<i>The Maple Digest</i>	Very	Somewhat	Not
<i>The Maple News</i>	Very	Somewhat	Not
Web sites	Very	Somewhat	Not
State Associations	Very	Somewhat	Not
Educational meetings	Very	Somewhat	Not
University/Extension staff	Very	Somewhat	Not
County forester/Forest protection staff	Very	Somewhat	Not
Other producers	Very	Somewhat	Not
Other (Specify: _____)	Very	Somewhat	Not

**General Maple Sugarbush Information:**

**E1. How many acres of maple sugarbush did you manage in 2008?**  
(Please fill in your answer)

\_\_\_\_\_ **Acres**

**E2. What is the approximate age range of your stand(s)?**  
(Please fill in your answers = Total 100%)

0-20 Years old	_____	%
20-40 Years old	_____	%
40-60 Years old	_____	%
60-80 Years old	_____	%
Greater than 80 Years old	_____	%

**E3. How many taps did you put out in 2008?**  
(Please fill in your answer)

\_\_\_\_\_ **Taps**

**E4. Over the past five years, what is your average annual yield of maple syrup?**  
(Please fill in your answer)

\_\_\_\_\_ **Gallons**

**E5. What percentage of your maple syrup is sold through each of these markets?**  
(Please fill in your answers = Total 100%)

Wholesale	_____	%
Retail	_____	%
Bulk	_____	%
Other (Specify: _____)	_____	%

**E6. How would you describe your production practices? (Circle the best answer)**

Organic  
Conventional  
Other (Specify: \_\_\_\_\_)

**E7. Is your sugarbush certified organic? (Circle answer)**

**Yes or No**

**Research, Education and Regulatory Priorities:**

**F1. Please list needs or ideas (as many as you wish) you think should be given high priority for sugarbush pest management RESEARCH.**

**F2. Please list needs or ideas (as many as you wish) you think should be given high priority for sugarbush pest management EDUCATION.**

**F3. Please list needs or ideas (as many as you wish) you think should be given high priority for sugarbush pest management REGULATORY CHANGES.**

**F4. Any other comments about maple sugarbush pest management or this survey?**

**Thank you for your help!**

**Summarized survey results will be posted online at [PRONewEngland.org](http://PRONewEngland.org).  
All information received is strictly confidential.**

**Please return your questionnaire in the enclosed envelope or to:**

**Ann Hazelrigg  
University of Vermont  
105 Carrigan Drive  
Burlington, VT 05405**