

# Ash Processing Options to SLOW THE SPREAD of Emerald Ash Borer

Ash Processing Options are for use with [Recommendations to Slow the Spread of Emerald Ash Borer](#) in Vermont to other locations in Vermont<sup>1</sup>. More details on treatments may be found on the next page.

## SLOW THE SPREAD Treatment or Processing Recommendations

Ash Material from EAB Infested Area	Recommended Treatment or Processing Measures
Ash sawlogs and roundwood	<p><u>Sawlogs</u>: Removal of bark and additional ½ inch of wood from logs: 100% of the bark to be removed and an additional ½ inch of wood. No residual bark or cambium shall remain.</p> <p><u>Bolewood</u>: Chip for boiler fuel or debark and chip for production of wood pulp.</p>
Ash Lumber (green)	<p>Kiln Sterilization of ash lumber.</p> <ul style="list-style-type: none"> <li>• Treatment: Kiln Sterilization (<i>see next page</i>).</li> <li>• The maximum thickness of allowable wood is three inches.</li> </ul> <p>-----OR-----</p> <p>Heat Treatment of ash lumber for use in wood packing material.</p> <ul style="list-style-type: none"> <li>• Treatment: Heat Treatment (<i>see next page</i>).</li> </ul>
Whole tree chips	No further processing of whole-tree chips is necessary.
Ash Bark & Processing Residues (slabs, edgings, trim ends)	<p>Grinding or chipping.</p> <p>-----OR-----</p> <p>Burning as boiler fuel on-site, in compliance with state and local regulations.</p>
Ash firewood	<p>Heat Treatment of Ash Firewood</p> <ul style="list-style-type: none"> <li>• Treatment: Wood Packing Material Heat Treatment (<i>see next page</i>).</li> </ul>

Learn more at [VTinvasives.org/eab](http://VTinvasives.org/eab)



<sup>1</sup> NOTE: The State of Maine has instituted a quarantine on ash material from outside Maine. See [www.maine.gov/dacf/php/caps/EAB](http://www.maine.gov/dacf/php/caps/EAB) for more information.

# Treatment Options<sup>2</sup>

## Treatment: Kiln Sterilization

### Kiln Sterilization Treatment Schedule

**\*\*Note:** The maximum thickness of allowable wood is three inches.

Dry bulb temperatures	Wet bulb depression	Relative humidity	Moisture content	Thickness of lumber	Exposure time
140° F	7° F	82%	13.8%	1 inch	3 hrs.
				2 inches	5 hrs.
				3 inches	7 hrs.
130° F	16° F	60%	9.4%	1 inch	10 hrs.
				2 inches	12 hrs.
				3 inches	14 hrs.

## Treatment: Heat Treatment

### Heat Treatment Schedule

1. Heat treatment procedures may employ steam, hot water, kilns, or any other method that raises the temperature of the center of the wood to at least 71.1 °C (160° F) for 75 minutes.
2. Facilities, temperature monitors, and temperature sensors will be approved by the Vermont Agency of Agriculture Food and Markets (VAAFMM) prior to a compliance agreement being initiated.
3. The temperature monitoring equipment (thermocouples, temperature data loggers, etc.) must be capable of collecting temperature data at least once every five (5) minutes and recording or storing data for 30 days. The temperature monitoring equipment must also be calibrated prior to facility certification tests and a minimum of once annually thereafter. In addition, if a permanent temperature recording system is used, the system must be recalibrated when any part or portion of the system is repaired or replaced.

## Treatment: Wood Packing Material Heat Treatment

### Ash lumber in wood packing material

Heat treatment must achieve a minimum core temperature of 56° C (132.8° F) for a minimum of 30 minutes.

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<sup>2</sup> Treatment options listed here are for use with *Recommendations to Slow the Spread of Emerald Ash Borer* exclusively. If moving ash material outside the State of Vermont, check with the destination state's regulatory officials for state specific rules.