

# Wood Packaging Materials and the Mechanics and Logistics of Heat Treating

Presentation for:

New England Kiln Drying Association  
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NE<sup>L</sup>MA<sup>®</sup>

# Wood Packaging Material and the Mechanics and Logistics of Heat Treating

## *Presentation Overview:*

- About NELMA
- ISPM 15 and It's Purpose
- Compliance Program Overview
- Your Questions

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## About NELMA

- Established in 1933 & Headquartered in Cumberland, Maine.
- Accredited Agency of ALSC to provide inspection of lumber, timbers and wood packaging for export.
- The grade rules writing agency for Eastern White Pine lumber and grading authority for commercially available softwood lumber used in construction.
- Additional programs include educational program, marketing & research.

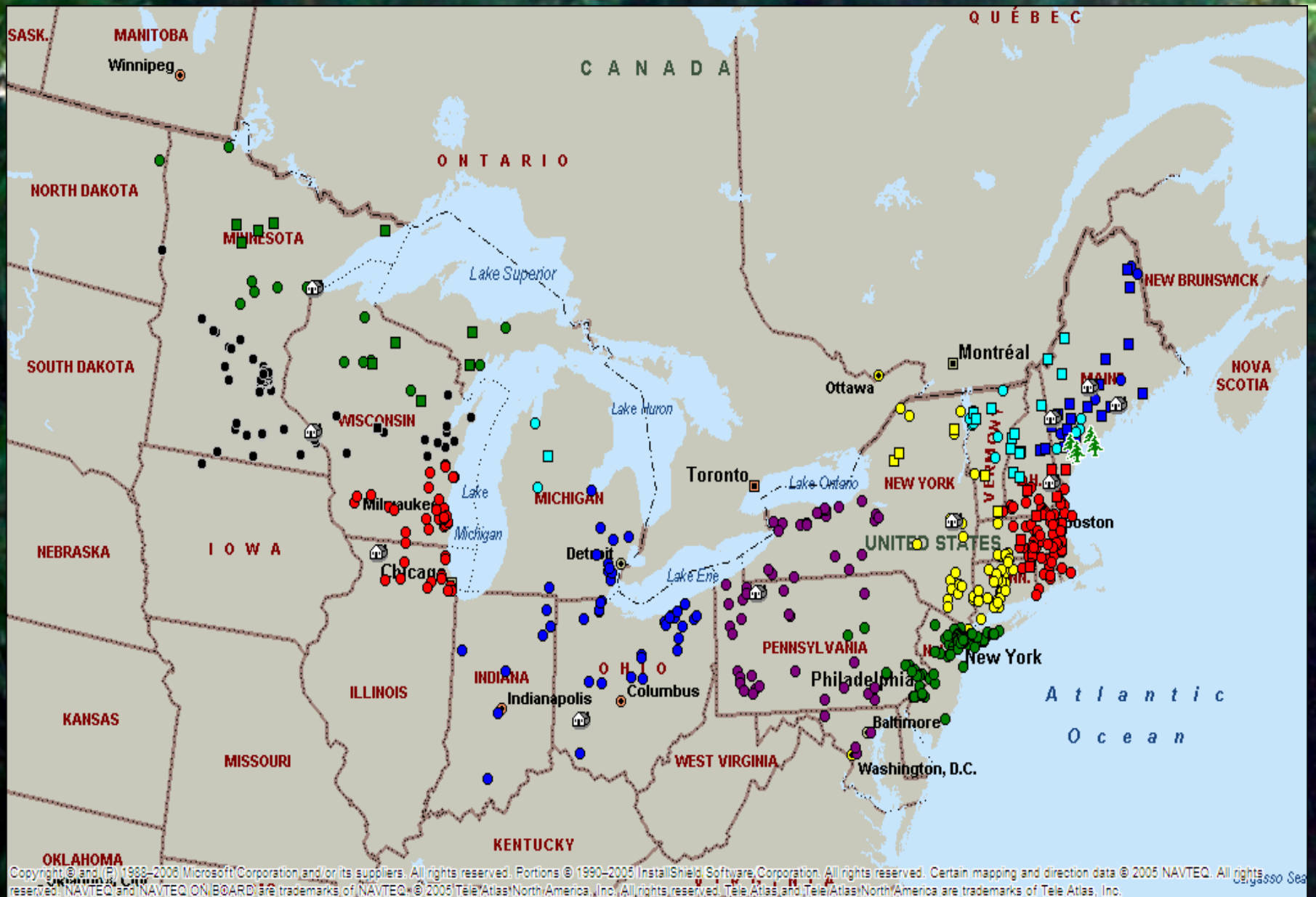
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## About NELMA

- Inspection Services Provided in the Northeastern & Great Lake States in the US, and Quebec in Canada.
- 64 Lumber Manufacturers
- 465 Wood Packaging Facilities (42 Heat Treating)
- 10 Field Inspectors, Director

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# Regulation - Wood Packaging Material - ISPM 15

- Authored by World Trade Organization – 2002
- Curb Spread of Invasive Species
- All Solid Wood – Coniferous and Deciduous
- Heat Treatment (HT) and Methyl Bromide (MB)
- Bark Limitation - <3 cm or <50 sq cm if > 3 cm
- Treating, Manufacturing, Marking
- Facility Types – Treatment, Remanufacturer, Builder

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# Heat Treatment Facility

- Heat Treats Components and WPM
- Wood Core Temp; 56 C (133 F) / 30 Consecutive Min
- NELMA Requires 140 F / 30 Consecutive Min
- Stamp Components HT – Sells to Reman or Builder
- Stamp WPM IPPC – Sells to Builder / Exporter

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## Process

- Chamber
- Heat
- Air Flow
- Thermocouples / Schedule
- DB Increases = More Efficient Heat Treating
- WB Depressions Decrease and WB Temperatures Increase = More Efficient Heat Treating

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# Air Flow



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# Stickering



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# Remanufacturer

- Purchases HT Components
- Remanufacturers - Cuts and Rips
- Stamp Components HT
- Sells to Manufacturer Building WPM / Exporting

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# Builder

- WPM Manufacturer
- Builds Box, Crate, Pallet, etc. from Components
- Sells Boxes, Crates, Pallets, etc. to Exporter of a Product
- Builds Box, Crate, Pallet, etc. for Product they Manufacture for Export
- Stamp Completed WPM Units IPPC

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# Bark Limitation



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# Variety



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# Verification

- HT Verification is Based on Logical Order of Stamping Due to Type of Manufacture
- HT Originator Stamps Components HT
- Remanufacturer Stamps Newly Manufactured Components HT
- WPM Manufacturer Stamps Completed Units Built from Purchased HT Components

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# Stamp Forgery



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# Proper Storage - Reinfestation



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Before ISPM 15



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# Q & Possibly A

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