Animal & Plant Health Inspection Service, Plant Protection & Quarantine

Invasive Insects & Pathogens

Compliance & Maintaining Kiln Calibration & Certification

New England Kiln Drying Association
2014 Fall Meeting

Invasive Insects and Pathogens
Animal & Plant Health Inspection Service, Plant Protection & Quarantine

Asian Longhorned Beetle (ALB)

• Boston declared free from ALB.
• Boundaries set for ALB infestation in Worcester County.
• Efforts to eradicate ALB in Ohio continue.
• ALB detected in Babylon Township, on Long Island, NY.
ALB – Worcester, Massachusetts

HOLDEN
WEST BOYLSTON
BOYLSTON
WORCESTER
SHREWSBURY

110 Square Miles - 34,297 Trees Removed

ALB - Ohio

61 square miles – 56,166 trees removed
ALB - New York

135 Square Miles – 18,564 Trees Removed

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ALB Regulations

• Articles include:
  • All species of hardwood firewood, host material living, dead, cut, or fallen inclusive of nursery stock, logs, green lumber, stumps, roots, branches, and debris of half inch or more in diameter.

• Entities include:
  • Landscapers, tree pruning companies, tree removal companies, firewood dealers, pallet distributors, nurseries, sanitation workers, as well as other municipal or community services and associated contractors.
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ALB Hosts – Most Susceptible

• Ash
• Birch
• Elm
• Goldenrain tree
• Hackberry
• Horsechestnut
• Katsura
• London Planetree
• Maple
• Mimosa
• Mountainash
• Poplar
• Willow

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Emerald Ash Borer (EAB)
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**EAB**

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EAB Regulations

- Movement with permit in non-flight season (Oct-Apr)
- Treatments
  - Removal of bark and ½ inch of wood
  - Kiln Sterilization (max. thickness of 3 inches)
  - Fumigation with Methyl Bromide
  - Heat Treatment to core temp. of 60° C for 60 min.
  - Chip to 1 inch in 2 directions
  - Compost
  - There is no treatment for nursery stock
- Violations may include imprisonment and up to $500,000 in fines.

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Gypsy Moth
Gypsy Moth (GM)

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GM Regulations

Update

• Regulation removed that required logs in transit to be covered with tarps.
Pine Shoot Beetle (PSB)

- **20 States:** Connecticut, Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia, and Wisconsin.
PSB Regulations

- Regulated Articles
  - Pine products (*Pinus* spp.): Bark products; Christmas trees; logs and firewood with bark attached; lumber with bark attached; nursery stock; raw pine materials for pine wreaths and garlands; and stumps.
- Movement by permit.
- Treatments include mechanical debarking, bark grinding, and composting.
European Larch Canker (ELC)

ELC

1999 Regulated areas of European Larch Canker, Lachnellula wilkinsonii
2004-03-06 Data retrieved from Code of Federal Regulations
ELC Regulations

- Regulated Articles
  - Logs, pulpwood, branches, twigs, plants, scion and other propagative material of the Larix or Pseudolarix spp. except seeds, and any other product, article, or means of conveyance whatsoever, when it has been determined by an inspector that it presents a risk of spread of the disease.
- Movement by permit.

Thousand Cankers Disease (TCD)
TCD

Distribution of Thousand Cankers Disease as of August 29, 2014

Source: www.thousandcankers.com

TCD Regulations

➤ State only

www.thousandcankers.com
Export Regulations

European Union Commission

- October 1st, 2014, bark freedom for *Fraxinus* (all Ash) and *Betula* (all Birch) will be defined as the removal of all bark and at least 2.5 cm (1 inch) of the outer sapwood.

Export Regulations

China - All Logs

- With Bark: Phytosanitary Certificate. Methyl Bromide or HT to core temp of 71°C for 75 minutes.
- Without Bark: Phytosanitary Certificate, less than 5% bark on the surface area.
Export Regulations

China - All Conifers

- **With Bark**: Phytosanitary Certificate. **Methyl Bromide** or HT to core temp of 71°C for 75 minutes.
- **Without Bark**: Phytosanitary Certificate, less than 5% bark on the surface area.
- Tested and found free from pinewood nematode.

Export Regulations

China – Oak

- **Logs With Bark**: Phytosanitary Certificate. **Methyl Bromide**.
- **Logs Without Bark**: Phytosanitary Certificate, less than 5% bark on the surface area.
- **Lumber**: Phytosanitary Certificate required.
Export Regulations

Canada –

- **With Bark**: free from Gypsy Moth, Pine Shoot Beetle, Oak Wilt Disease, Asian Longhorned Beetle.
- **Firewood**: Phytosanitary Certificate and Import Permit required.
- **Lumber**: Phytosanitary Certificate required, except when from ALB areas.
- **From ALB areas**: conforms to CFR or HT at core temp of 56°C for 30 mins.

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Ash

- **Logs & Firewood**: Phytosanitary Certificate and Import Permit required.
- **Lumber and Pallets**: HT to core temp of 56°C for 30 mins., or harvest where EAB does not occur based on official surveys, or remove bark and wood to a depth of 1 inch, and free of exit holes or galleries.
- **Woodchips**: less than 1 inch in any two dimensions.
Compliance & Maintaining Kiln Calibration & Certification

Special Certification Procedures for Lumber

Certification with or without a physical inspection if certain conditions are met.
Option 1

An Authorized Certification Official (ACO) inspects the lumber, verifies the treatment meets importing country requirements, verify any markings required, and issues a PC.

Option 2

One of the following documents is presented to an ACO that shows all importing country requirements are met:

- Certificate of treatment issued by an Authorized Agency, i.e. NHLA, SPIB, NSLB, etc.
- Certificate of treatment from a facility in the Mill Certification Program, NeLMA, RRA, TPI, etc.
- Certificate of treatment from a facility operating under an agreement with USDA APHIS.
Option 3

- Third party verification of kiln/thermocouple certification within the last year,
- Kiln records, and
- A treatment certificate on company letterhead to the ACO.

Note: requires an agreement with USDA APHIS be signed by the mill.

KD Verification

- ACO conducts a physical inspection, reviews kiln charge results, and measures moisture content to verify < 20%.
- Facility operates under the supervision of a USDA APHIS authorized agency, and
  1. ACO conducts physical inspection & verifies KD marks from authorized agency, if required, or
  2. Facility provides treatment certificate issued by an authorized agency, or
  3. Third-party kiln calibration within past year and documentation of low moisture content and/or kiln charge results and a heat treatment certificate on company letterhead.
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HT Verification

- Facility operates under the supervision of a USDA APHIS authorized agency, **and**
  - ACO conducts physical inspection & verifies HT marks from authorized agency, if required, **and**
  - Facility provides treatment certificate issued by an authorized agency, i.e. NHLA, NeLMA.
- Facility **not** affiliated with a Mill Certification Program organization.
  - ACO reviews third party thermocouple calibration performed within past year, documentation of core temperatures and duration provided by facility, and a heat treatment certificate on company letterhead.

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HT Scenario 1

Facility does not operate under the supervision of a USDA APHIS authorized agency.

- Option 1 – ACO conducts physical inspection, reviews third party thermocouple calibration performed within past year, verifies core temperatures and duration met.
- Option 2 – facility signs a compliance agreement with USDA APHIS. ACO reviews third party thermocouple calibration performed within past year, documentation of core temperatures and duration provided by facility, and heat treatment certificate on company letterhead.
### HT Scenario 2

Facility operates under supervision of authorized agency.

- **Option 1** – ACO conducts physical inspection, verifies core temperatures and duration met.
- **Option 2** – ACO conducts physical inspection, verifies HT marks from authorized agency, and facility provides treatment certificate issued by an authorized agency.
- **Option 3** – facility signs agreement with USDA APHIS, provides ACO with copy of agreement with authorized agency, and a treatment certificate issued by an authorized agency.

### KD Scenario 1

Facility does not operate under supervision of authorized agency.

- **Option 1** – ACO conducts physical inspection, verifies moisture content below 20%, reviews kiln charts.
- **Option 2** – Facility signs an agreement with USDA APHIS, provides ACO 3rd party kiln calibration within past year and documentation of low moisture content and/or kiln charge results and a KD certificate on company letterhead.
KD Scenario 2

Facility operates under supervision of authorized agency.

- Option 1 – ACO conducts physical inspection, verifies moisture content below 20%, reviews kiln charts.
- Option 2 – ACO conducts physical inspection, verifies KD marks from authorized agency, and facility provides treatment certificate issued by an authorized agency.
- Option 3 – Facility signs agreement with USDA APHIS, provides ACO with copy of agreement with authorized agency, and a KD certificate issued by an authorized agency.

HT / KD Marking

When official inspection is not conducted by the ACO it is the responsibility of the exporter to verify any required marking.

Bark Freedom

When official inspection is not conducted by the ACO it is the responsibility of the exporter to verify freedom from bark.
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