

Import Health Standard: Woodware from All Countries

ENDORSEMENT

This MAF Biosecurity New Zealand standard is hereby approved. Pursuant to section 22 of the Biosecurity Act 1993, I hereby issue this document as an import health standard.

Signature of Group Manager, Plant Imports and Exports Group
Acting pursuant to delegated Director-General authority

Date: 30 March 2011

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1 OFFICIAL CONTACT POINT

- 1.1 The Ministry of Agriculture and Forestry is the official contact point in New Zealand for overseas National Plant Protection Organisations (NPPO) and importers. Any enquiries about this import health standard and requests for copies of this standard should be addressed to:

Plant Imports
MAF Biosecurity New Zealand
Ministry of Agriculture and Forestry
PO Box 2526
Wellington, NEW ZEALAND

Fax: +64 4 894 0662

E-mail: plantimports@maf.govt.nz

- 1.2 Import health standards for forest and wood products are available at the following website: <http://www.biosecurity.govt.nz/regs/imports/plants/forest>
- 1.3 This standard is subject to periodic review. Amendments will be made to the signed original as required. The signed original will be held by the Plant Imports and Exports Group, Ministry of Agriculture and Forestry, Pastoral House, 25 The Terrace, Wellington.

2 GENERAL IMPORT REQUIREMENTS

2.1 SCOPE

- 2.1.1 This import health standard describes the phytosanitary requirements that must be met for woodware to be given biosecurity clearance into New Zealand.

2.2 REFERENCES

- 2.2.1 This import health standard has been developed under the requirements of the Biosecurity Act (1993) and in regard to New Zealand's obligations under the International Plant Protection Convention (1997).

Compliance with the provisions of this import health standard does not absolve the importer of the need to comply with other laws relating to or prohibiting the importation of goods (e.g. Trade in Endangered Species Act 1989).

- 2.2.2 This import health standard refers to the following documents:

- [International Standard for Phytosanitary Measures, Glossary of Phytosanitary Terms, Pub. No. 5, 2009 \(ISPM 5\)](#)
- [International Standard for Phytosanitary Measures, Guidelines for Phytosanitary Certificates, Pub. No. 12, 2001 \(ISPM 12\)](#)

2.3 DEFINITIONS AND ABBREVIATIONS

2.3.1 Any terms defined in the Biosecurity Act (1993) or by the International Plant Protection Convention (1997) and used in but not otherwise defined in this import health standard have the same meaning as in the Act, or as in ISPM Pub. No. 5.

| | |
|------------------------|---|
| Bark | The outer protective covering of a tree formed by the cork cambium and phloem tissues. |
| Bark-free wood | Wood from which all bark, except ingrown bark around knots and bark pockets between rings of annual growth, has been removed. |
| Biosecurity Clearance | A clearance under section 22 of the Biosecurity Act (1993) for the entry of goods into New Zealand. |
| Certificate | An official document which attests to the phytosanitary status of any consignment affected by phytosanitary regulations [FAO, 1990]. |
| Commodity | A type of plant, plant product or other regulated article being moved for trade or other purpose [ICPM, 2001] |
| Consignment | A quantity of plants, plant products and/or other articles being moved from one country to another and covered, when required, by a single phytosanitary certificate (a consignment may be composed of one or more commodities or lots). [ICPM, 2001] |
| Contamination | Presence in a commodity, storage place, conveyance or container, of pests or other regulated articles, not constituting an infestation [CEPM, 1999]. |
| Forest Produce | for the purposes of this standard means timber, timber produce, wood packaging material, and the produce of trees including bark, and seeds or tree parts for propagation, but does not include any produce for human or animal consumption. |
| Import health standard | Document issued under section 22 of the Biosecurity Act 1993 that “..... <i>specifies the requirements to be met for the effective management of risks associated with the importation of risk goods before those goods can be imported, moved from a biosecurity control area, or a transitional facility, or given biosecurity clearance</i> ”. |
| Import permit | Official document authorising importation of a commodity in accordance with specified phytosanitary requirements [FAO, 1995]. |
| Importer | May be an individual or company, including importer’s agent. |

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| Inspection | Official visual examination of plants, plant products or other regulated articles to determine if pests are present and/or to determine compliance with phytosanitary regulations [FAO, 1995]. |
| International Standard for Phytosanitary Measures (ISPM) | An international standard adopted by the Conference of FAO, the Interim Commission on Phytosanitary Measures or the Commission on Phytosanitary Measures, established under the IPPC [CEPM, 1999]. |
| IPPC | International Plant Protection Convention, as deposited in 1951 with FAO in Rome and subsequently amended [ICPM, 2001]. |
| Lot | A number of units of a single commodity, identifiable by its homogeneity of composition, origin etc., forming part of a consignment [FAO, 1990]. |
| MAF | The Ministry of Agriculture and Forestry, New Zealand. |
| National Plant Protection Organisation (NPPO) | Official service established by a government to discharge the functions specified by the IPPC [FAO, 1990]. |
| Organism | <p>Biotic entity capable of reproduction or replication, vertebrate or invertebrate animals, plants and micro-organisms [ISPM Pub. No. 3, 2009]</p> <p>Within New Zealand, an organism, defined by the New Zealand Biosecurity Act (1993);</p> <ul style="list-style-type: none"> (a) Does not include a human being or a genetic structure derived from a human being; (b) Includes a micro-organism; (c) Subject to paragraph (a) of this definition, includes a genetic structure that is capable of replicating itself (whether that structure comprises all or only part of an entity, and whether it comprises all or only part of the total genetic structure of an entity): (d) Includes an entity (other than a human being) declared by the Governor-General by Order in Council to be an organism for the purposes of this Act: (e) Includes a reproductive cell or developmental stage of an organism: (f) Includes any particle that is a prion. |
| Pest | Any species, strain or biotype of plant, animal or pathogenic agent, injurious to plants or animals (or their products) or human health or the environment. |
| Phytosanitary measure | Any legislation, regulation or official procedure having the |

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| | purpose to prevent the introduction and/or spread of quarantine pests, or to limit the economic impact of regulated non-quarantine pests [IPPC, 1997]. |
| Quarantine pest | A pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and being officially controlled [IPPC, 1997]. |
| Regulated pest | A quarantine pest or a regulated non-quarantine pest [IPPC, 1997]. |
| Treatment | Officially authorised procedure for the killing or removal of pests or rendering pests infertile [ISPM Pub. No. 15, 2009] |
| Wood | A commodity class for round wood, sawn wood, wood chips or dunnage, with or without bark [ICPM, 2001]. |
| Woodware | Artworks, furniture, burls, furnishings, household goods, and utensils manufactured from wood. |

2.4 GENERAL INFORMATION

- 2.4.1 All forest produce is PROHIBITED entry into New Zealand, unless it complies with the requirements of an import health standard that has been issued in accordance with Section 22 of the Biosecurity Act (1993).
- 2.4.2 As specified in the Hazardous Substances and New Organisms Act (1996), proposals for the deliberate introduction of new organisms (including genetically modified organisms) as defined by the Act should be referred to the Environmental Risk Management Authority, PO Box 131, Wellington.
- 2.4.3 MAF categorises pests associated with forest produce into regulated and non-regulated pests. Lists of regulated and non-regulated pests for the commodities covered by this standard are attached as appendices to this import health standard.
- 2.4.4 When an unlisted pest is found on any imported forest produce it will be categorised and added to the appropriate pest list.

3. SPECIFIC IMPORT REQUIREMENTS FOR WOODWARE

3.1 GENERAL REQUIREMENTS

- 3.1.1 Woodware containing or made up of bark must be imported into New Zealand under the import health standard for bark unless the bark has been lacquered or otherwise coated in a permanent covering.
- 3.1.2 Woodware that is principally comprised of raw or unmanufactured wood must be imported into New Zealand under the requirements of the import health standard for sawn wood.
- 3.1.3 Woodware made wholly of manufactured wood such as plywood, particleboard, oriented strand board, fibreboard, veneer, and chipboard is exempt from the certification and inspection requirements of this Import Health Standard, and can be given biosecurity clearance if not considered by MAF to be a risk of being contaminated.
- 3.1.4 Imported burls (including redwood) must be heat treated as per the treatment specifications stated in section 3.3.
- 3.1.5 For wooden barrels that do not contain additional plant material (e.g. bark hoops, decorative vines, willow reeds), consignments should be accompanied by a manufacturer's declaration stating that no additional plant material has been attached after treatment.
- 3.1.6 Wooden barrels should be treated as per Section 3.3, but one of the following rates is acceptable as an alternative to the heat treatment option specified in Section 3.3.3:
- heat treatment at a minimum continuous core temperature of 90^oC for 70 minutes
 - heat treatment at a minimum continuous core temperature of 100^oC for 30 minutes
 - heat treatment at a minimum continuous core temperature of 120^oC for 15 minutes
- 3.1.7 A consignment of woodware must be:
- a) free of regulated pests (see Appendix 1 (a)).
 - b) packed and shipped in a manner that prevents infestation and/or contamination by regulated pests. MAF considers the following as examples of appropriate packaging: plastic wrapping, 6 sided boxing, closed shipping containers.
 - c) free of extraneous material (e.g. leaves, soil). MAF considers a contamination rate of up to 0.01% w/w extraneous material acceptable.

3.2 TREATMENT REQUIREMENTS

- 3.2.1 Any treatment completed prior to import must comply with the requirements of this import health standard, or an equivalent treatment(s) approved by MAF.
- 3.2.2 If woodware are fumigated or heat treated prior to export the woodware must be treated no more than twenty-one (21) days before export to New Zealand.

3.3 TREATMENT OPTIONS

MAF accepts one or more of the following treatment options for Woodware:

- 3.3.1 Fumigation with methyl bromide or sulphuryl fluoride of filleted or otherwise separated layers, at 80 g/m³ for more than 24 continuous hours, and in a minimum temperature of 10°C.
- 3.3.2 Vacuum fumigated with methyl bromide or sulphuryl fluoride at 64 g/m³ for more than 4 hours in a minimum temperature of 10°C.
- 3.3.3 Heat treatment at a minimum continuous core temperature of 70°C for more than four hours.

3.4 CERTIFICATION REQUIREMENTS

- 3.4.1 An import permit is not required to import woodware into New Zealand.
- 3.4.2 For the purpose of providing certification of the treatment status of consignments to be imported into New Zealand, the importer may use a:
 - a) phytosanitary certificate issued by the NPPO and based on the model certificate included in ISPM 12;
 - b) phytosanitary certificate issued by the NPPO other than the certificate specified in (a) to which the following is to be included:

"The woodware in this consignment have been inspected according to appropriate official procedures and are considered to be free from the regulated pests specified by MAF, and to conform with New Zealand's current phytosanitary requirements".
 - c) treatment certificate issued by the manufacturer or operator/manager of the treatment company that conducted the treatment.
- 3.4.3 All certification must be original, free of alterations and erasures, and printed in English.

3.5 CERTIFICATE INFORMATION

- 3.5.1 If used, a certificate must contain the following information:
 - A full description of the consignment and wood component
 - All relevant identification marks and brands
 - The number and/or volume of items treated
 - The container number (where applicable)
 - The following additional declarations (where applicable)
- 3.5.2 Certificates for consignments that have been fumigated may contain the following declaration:

“The woodware has been fumigated with _____ (methyl bromide or sulphuryl fluoride) _____ at _____

(Fumigant concentration (g/m³)) ___ for ___ (Duration of treatment) ___ at a minimum temperature of ___ (Minimum temperature during treatment) ___ on the ___ (Date of treatment (dd/mm/yy)) ___.”

- 3.5.3 Certificates for consignments that have been vacuum-fumigated may contain the following declaration:

“The woodware has been vacuum-fumigated with ___ (methyl bromide or sulphuryl fluoride) ___ **at** ___ (Fumigant concentration (g/m³)) ___ **for** ___ (Duration of treatment) ___ **at a minimum temperature of** ___ (Minimum temperature during treatment) ___ **on the** ___ (Date of treatment (dd/mm/yy)) ___.”

- 3.5.4 Certificates for heat-treated consignments that have been heat-treated may contain the following declaration:

“The woodware has been heated for ___ (Duration of treatment) ___ **at a minimum core temperature of** ___ (Minimum core temperature during treatment) ___ **on the** ___ (Date of treatment (dd/mm/yy)) ___.”

3.6 TRANSIT REQUIREMENTS

- 3.6.1 Where a consignment is split or has its packaging changed while in another country (or countries) *en route* to New Zealand, a "Re-export Certificate" issued by a NPPO is required where the treatment of the woodware has been certified.
- 3.6.2 Where a consignment is held under bond as a result of the need to change conveyances and is kept in the original shipping container, a "Re-export Certificate" is not required.

4 REQUIREMENTS ON ARRIVAL IN NEW ZEALAND

The importer shall meet all costs specified in the [Biosecurity \(Costs\) Regulations](#) associated with the inspection, treatment (if required) and clearance of goods imported under this standard.

4.1 INSPECTION ON ARRIVAL IN NEW ZEALAND

- 4.1.1 If appropriate certification is NOT provided the woodware will be considered untreated.
- 4.1.2 If the woodware are NOT packaged in a manner considered by MAF to adequately protect the woodware from re-infestation after treatment, or were NOT shipped within the required time period after treatment, the woodware will be considered untreated.
- 4.1.3 Consignments of woodware that do not comply with this Import Health Standard must be appropriately treated, reshipped, or destroyed.
- 4.1.4 Each consignment of:
- untreated redwood or other unprocessed burls will be heat treated (as per the treatment specifications stated in section 3.3), reshipped, or destroyed.
 - untreated woodware imported as accompanied or unaccompanied private goods (e.g. personal effects) will be inspected for evidence of pests, bark, or extraneous

organic material (e.g. leaves, twigs, soil) if deemed by MAF to be a risk of being contaminated.

- untreated woodware imported commercially will be inspected for evidence of pests, bark, or extraneous organic material (e.g. leaves, twigs, soil) if deemed by MAF to be a risk of being contaminated.
- treated woodware imported commercially may be inspected to verify that the treatment was effective or for evidence of other contamination.

4.1.5 All inspections of commercial consignments of woodware completed on arrival in New Zealand shall be carried out in a transitional facility approved by MAF for that purpose.

4.2 ACTIONS UNDERTAKEN ON THE INTERCEPTION/DETECTION OF ORGANISMS/CONTAMINANTS

4.2.1 All organisms detected on the woodware may be identified to determine the regulatory status of the organism regardless of the treatment(s) or action(s) undertaken.

4.2.2 If regulated pests are intercepted/detected on the commodity, or associated packaging, the following actions will be undertaken as appropriate (depending on the pest identified, see Appendix 1(a)):

- Reshipment of the consignment or lot;
- Destruction of the consignment or lot;
- Treatment (where possible) of the consignment or lot;
- The suspension of trade, until the cause of the non-compliance is investigated, identified and rectified to the satisfaction of New Zealand MAF.

4.2.3 Lots contaminated with bark or greater than 0.01% w/w soil or other extraneous organic material (e.g. leaves, twigs) shall have the contaminating material removed (if possible), or be treated, re-shipped or destroyed.

4.2.4 All treatments completed on arrival in New Zealand shall be carried out in a transitional facility approved by MAF for that purpose.

4.3 BIOSECURITY CLEARANCE

4.3.1 If the requirements of this import health standard have been met, and regulated pests are not detected or are successfully treated following interception/detection, biosecurity clearance will be given.

Appendix 1 (a)

List of Regulated Pests Potentially Associated with Woodware

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|---|---------------|----------------------------|---|--------------------------------------|
| Micro-organisms | | | | |
| <i>Atropellis tingens</i> | Fungus | Canker | Heat | Treatment, Reshipping or Destruction |
| <i>Caliciopsis pinea</i> | Fungus | Canker | Heat | Treatment, Reshipping or Destruction |
| <i>Calonectria ilicicola</i> | Fungus | Collar rot | Heat | Treatment, Reshipping or Destruction |
| <i>Calonectria indusiata</i> | Fungus | Root & stem rot | Heat | Treatment, Reshipping or Destruction |
| <i>Cronartium quercuum</i> | Fungus | Pine blister rust | Heat | Treatment, Reshipping or Destruction |
| <i>Cronartium quercuum</i> f.sp. <i>fusiforme</i> | Fungus | Stem rust | Heat | Treatment, Reshipping or Destruction |
| <i>Cryphonectria cubensis</i> | Fungus | Basal / stem canker | Heat | Treatment, Reshipping or Destruction |
| <i>Cryphonectria havanensis</i> | Fungus | Stem canker | Heat | Treatment, Reshipping or Destruction |
| <i>Dermea pini</i> | Fungus | Shoot blight | Heat | Treatment, Reshipping or Destruction |
| <i>Elytroderma deformans</i> | Fungus | Needle blight | Heat | Treatment, Reshipping or Destruction |
| <i>Endocronartium pini</i> | Fungus | Stem rust | Heat | Treatment, Reshipping or Destruction |
| <i>Gloeophyllum abietinum</i> | Fungus | | Heat | Treatment, Reshipping or Destruction |
| <i>Heterobasidion annosum</i> | Fungus | Root rot | Heat | Treatment, Reshipping or Destruction |
| <i>Ischnoderma resinosum</i> | Fungus | | Heat | Treatment, Reshipping or Destruction |
| <i>Mucor spinosus</i> | Fungus | | Heat | Treatment, Reshipping or Destruction |
| <i>Ophiostoma leptographioides</i> | Fungus | | Heat | Treatment, Reshipping or Destruction |
| <i>Ophiostoma</i> sp. | Fungus | Blue stain, wilt | Heat | Treatment, Reshipping or Destruction |
| <i>Phacidium coniferarum</i> | Fungus | Pine canker, dieback | Heat | Treatment, Reshipping or Destruction |
| <i>Phellinus noxius</i> | Fungus | Wood rot | Heat | Treatment, Reshipping or Destruction |
| <i>Sparassis crispa</i> | Fungus | Root and butt rot | Heat | Treatment, Reshipping or Destruction |
| <i>Trametes trogii</i> | Fungus | Wound parasite | Heat | Treatment, Reshipping or Destruction |
| <i>Trichaptum abietinus</i> | Fungus | Butt rot | Heat | Treatment, Reshipping or Destruction |
| Arthropods | | | | |
| <i>Abantiades latipennis</i> | Hepialidae | Ghost moth | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Aenetus lignivorus</i> | Hepialidae | Common splendid ghost moth | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Aenetus paradiseus</i> | Hepialidae | Splendid ghost moth | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Agrilus opulentus</i> | Buprestidae | Flat headed borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Agrilus sexsignatus</i> | Buprestidae | Varicose borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Anoplophora glabripennis</i> | Cerambycidae | Asian longhorned beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |

Note: Fumigation = Methyl Bromide or Sulphuryl Fluoride Fumigation; Heat = 70°C for specified duration (see text).

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|-------------------------------------|-----------------|-------------------------------|---|--------------------------------------|
| <i>Anoplophora</i> spp. | Cerambycidae | Longhorned beetles | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Arhopalus productus</i> | Cerambycidae | New house borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Asemum striatum</i> | Cerambycidae | Black spruce borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Austroplatypus incompertus</i> | Platypodidae | Ambrosia beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Buprestis aurulenta</i> | Buprestidae | Golden buprestid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Camponotus abdominalis</i> | Formicidae | Carpenter ant | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Camponotus pennsylvanicus</i> | Formicidae | Carpenter ant | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Celosterna scabator</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium declaratum</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium flavipes</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium holophaeum</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium longicorn</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium nilgiriensis</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium sinicum</i> | Cerambycidae | Brown twig-girgling longhorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium sinicum ornaticolle</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ceresium sinicum sinicum</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Chlorophorus annularis</i> | Cerambycidae | Bamboo tiger longicorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Coptotermes acinaciformis</i> | Rhinotermitidae | Subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Coptotermes curvignathus</i> | Rhinotermitidae | Subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Coptotermes formosanus</i> | Rhinotermitidae | Formosan subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Cryphalus</i> sp. | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Cryptotermes brevis</i> | Kalotermitidae | West Indian drywood termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus adjunctus</i> | Scolytidae | Roundheaded pine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus brevicomis</i> | Scolytidae | Western pine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus frontalis</i> | Scolytidae | Southern pine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus ponderosae</i> | Scolytidae | Mountain pine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus terebrans</i> | Scolytidae | Black turpentine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dendroctonus valens</i> | Scolytidae | Red turpentine beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dicera horni</i> | Buprestidae | Flatheaded borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Doratifera vulnerans</i> | Limacodidae | Mottled cup moth | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Dryocoetes</i> sp. | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Epithora dorsalis</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ergates spiculatus</i> | Cerambycidae | Ponderous borer | Fumigation, Heat | Treatment, Reshipment or Destruction |

Note: Fumigation = Methyl Bromide or Sulphuryl Fluoride Fumigation; Heat = 70°C for specified duration (see text).

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|--|-----------------|--------------------------------|---|--------------------------------------|
| <i>Glycaspis endasa</i> | Spondyliaspidae | Lerp psyllid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Glycaspis nigrocincta</i> | Spondyliaspidae | Lerp psyllid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Glycaspis particeps</i> | Spondyliaspidae | Lerp psyllid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Gnathotrichus retusus</i> | Scolytidae | Spring gnathotrichus | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Gnathotrichus</i> spp. | Scolytidae | Ambrosia beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Gnathotrichus sulcatus</i> | Scolytidae | Scratched-face ambrosia beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hemicoelus gibbicollis</i> | Anobiidae | Pacific powderpost beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes campestris</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes fasciculatus</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes griseus</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes heydeni</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes maculatus</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesperophanes</i> spp. | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hesthesis cingulata</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Heterobostrychus aequalis</i> | Bostrichidae | Bostrychid beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Heteronyx crinitus</i> | Scarabaeidae | Scarab beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Heteronyx</i> n. sp. var. <i>comans</i> | Scarabaeidae | Scarab beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Heteronyx striatipennis</i> var. <i>jabatus</i> | Scarabaeidae | Scarab beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Heterotermes</i> spp. | Rhinotermitidae | Subterranean termites | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hylobius abietis</i> | Curculionidae | Large pine weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hylobius pales</i> | Curculionidae | Pales weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Hypertropha tortriciformis</i> | Hypertrophidae | | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Incisitermes</i> spp. | Kalotermitidae | Drywood termites | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips acuminatus</i> | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips calligraphus</i> | Scolytidae | Eastern six-spined engraver | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips erosus</i> | Scolytidae | Mediterranean pine engraver | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips grandicollis</i> | Scolytidae | Eastern five-spined engraver | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips mexicanus</i> | Scolytidae | Monterey pine ips | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips paraconfusus</i> | Scolytidae | California five-spined ips | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips pini</i> | Scolytidae | Pine engraver | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips plastographus maritimus</i> | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips sexdentatus</i> | Scolytidae | Six-toothed bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Ips typographus</i> | Scolytidae | European spruce bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |

Note: Fumigation = Methyl Bromide or Sulphuryl Fluoride Fumigation; Heat = 70°C for specified duration (see text).

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|--|-----------------|----------------------------------|---|--------------------------------------|
| <i>Lophyrotoma interrupta</i> | Pergidae | Cattle poisoning sawfly | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Macrones rufus</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Mastotermes darwiniensis</i> | Mastotermitidae | Giant northern termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Melanophila californica</i> | Buprestidae | California flatheaded borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Microcerotermes</i> spp. | Termitidae | Termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus alternatus</i> | Cerambycidae | Rusty pine longhorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus bimaculatus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus clamator</i> | Cerambycidae | Spotted pine sawyer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus gravidus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus guerryi</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus guttatus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus impluviatus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus notatus</i> | Cerambycidae | Northeastern sawyer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus obtusus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus saltuarius</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus scutellatus</i> | Cerambycidae | White-spotted sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus sparsutus</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus sutor</i> | Cerambycidae | Small white-marmorated longicorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Monochamus urusovi</i> | Cerambycidae | Sawyer beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Nacerdes melanura</i> | Oedemeridae | Wharf borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Nascioides parryi</i> | Buprestidae | Flatheaded borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Nasutitermes exitiosus</i> | Termitidae | Subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Orthotomicus erosus</i> | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Orthotomicus</i> sp. | Scolytidae | Bark beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Perga affinis insularis</i> | Pergidae | Large green sawfly | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Phlyctaenodes pustulosus</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Phoracantha recurva</i> | Cerambycidae | Yellow longicorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Phoracantha tricuspis</i> | Cerambycidae | Common longicorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Pissodes nemorensis</i> | Curculionidae | Deodar weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Platypus subgranosus</i> | Platypodidae | Mountain pinhole borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Porotermes adamsonii</i> | Termopsidae | Dampwood termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Pseudoperga lewisii</i> | Pergidae | Pale brown sawfly | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Purpuricenus</i> sp. (<i>spectabilis</i>) | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |

Note: Fumigation = Methyl Bromide or Sulphuryl Fluoride Fumigation; Heat = 70°C for specified duration (see text).

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|---|-----------------|------------------------------|---|--------------------------------------|
| <i>Reticulitermes hesperus</i> | Rhinotermitidae | Western subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Reticulitermes</i> spp. | Rhinotermitidae | Subterranean termites | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Rhachiodes dentifer</i> | Curculionidae | Weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Schedorhinotermes intermedius</i> | Rhinotermitidae | Subterranean termite | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Schedotrioza marginata</i> | Triozidae | Psyllid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Schedotrioza multitudinea</i> | Triozidae | Psyllid | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Scolecobrotus westwoodi</i> | Cerambycidae | Roughshouldered longicorn | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Scolytus</i> spp. | Scolytidae | Engraver beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Semanotus litigiosus</i> | Cerambycidae | Fir tree borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Semanotus ligneus ampla</i> | Cerambycidae | Cedar tree borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Shirahoshizo</i> sp. | Cucurlionidae | Pine weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Strongylorhinus ochraceous</i> | Curculionidae | Weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Syarbis alcyone</i> | Curculionidae | Weevil | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Tetropium cinnamopterum parvulum</i> | Cerambycidae | Northern spruce borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Tetropium fuscum</i> | Cerambycidae | Brown spruce longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Tetropium velutinum</i> | Cerambycidae | Western larch borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Tomicus piniperda</i> | Scolytidae | Pine shoot beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Trachykele blondeli</i> | Buprestidae | Western cedar borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Tryphocaria mastersi</i> | Cerambycidae | Bulls-eye borer | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Trypodendron lineatum</i> | Scolytidae | Striped ambrosia beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Xylosandrus crassiusculus</i> | Scolytidae | Asian ambrosia beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Zygocera canosa</i> | Cerambycidae | Longhorn beetle | Fumigation, Heat | Treatment, Reshipment or Destruction |
| Nematodes | | | | |
| <i>Bursaphelenchus</i> spp. | Nematode | Pine wood nematode | Fumigation, Heat | Treatment, Reshipment or Destruction |
| <i>Bursaphelenchus xylophilus</i> | Nematode | Pine wilt nematode | Fumigation, Heat | Treatment, Reshipment or Destruction |

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Appendix 1 (b)

List of Non-Regulated Pests Potentially Associated with Woodware

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|---------------------------------|---------------|-------------------------|---|------------------------------|
| Micro-organisms | | | | |
| <i>Acremonium strictum</i> | Fungus | Black bundle disease | None Required | None |
| <i>Epicoccum nigrum</i> | Fungus | Sooty mould, leaf spot | None Required | None |
| <i>Fusarium oxysporum</i> | Fungus | Root rot | None Required | None |
| <i>Phanerochaete gigantea</i> | Fungus | White rot | None Required | None |
| <i>Polyporus arcularius</i> | Fungus | | None Required | None |
| <i>Schizophyllum commune</i> | Fungus | | None Required | None |
| <i>Trametes hirsuta</i> | Fungus | | None Required | None |
| <i>Trichoderma viride</i> | Fungus | Green mould | None Required | None |
| Arthropods | | | | |
| <i>Agrypnus variabilis</i> | Elateridae | Sugarcane wireworm | None required | None |
| <i>Amasa truncatus</i> | Scolytidae | Keyhole ambrosia beetle | None required | None |
| <i>Ambrosiodmus compressus</i> | Scolytidae | Keyhole ambrosia beetle | None required | None |
| <i>Anobium punctatum</i> | Anobiidae | House borer | None required | None |
| <i>Apion ulicis</i> | Apionidae | Gorse seed weevil | None required | None |
| <i>Araecerus palmaris</i> | Anthribidae | Dried apple beetle | None required | None |
| <i>Arhopalus tristis</i> | Cerambycidae | Burnt pine longhorn | None required | None |
| <i>Aridaeus thoracicus</i> | Cerambycidae | Tiger longhorn | None required | None |
| <i>Asynonychus cervinus</i> | Curculionidae | Fuller's rose weevil | None required | None |
| <i>Bethelium signiferum</i> | Cerambycidae | Wattle longhorn | None required | None |
| <i>Bruchidius villosus</i> | Chrysomelidae | Broom seed beetle | None required | None |
| <i>Callidiopsis scutellarus</i> | Cerambycidae | Longhorn beetle | None required | None |
| <i>Coptocercus rubripes</i> | Cerambycidae | Longhorn beetle | None required | None |
| <i>Coptodryas eucalyptica</i> | Scolytidae | Ambrosia beetle | None required | None |
| <i>Cryphalus wapleri</i> | Scolytidae | Bark beetle | None required | None |
| <i>Deroptilinus granicollis</i> | Anobiidae | Furniture beetle | None required | None |
| <i>Didymocantha obliqua</i> | Cerambycidae | Longhorn beetle | None required | None |
| <i>Ernobius mollis</i> | Anobiidae | Pine bark anobiid | None required | None |
| <i>Gonipterus scutellatus</i> | Curculionidae | Gum tree weevil | None required | None |
| <i>Graphognathus leucoloma</i> | Curculionidae | Whitefringed weevil | None required | None |

Note: Fumigation = Methyl Bromide or Sulphuryl Fluoride Fumigation; Heat = 70°C for specified duration (see text).

| Scientific Name | Organism Type | Common Name | MAF Approved Phytosanitary Treatment Options (see Note) | Contingency for interception |
|-------------------------------------|---------------|----------------------------------|---|------------------------------|
| <i>Hadrobregmus australiensis</i> | Anobiidae | Furniture beetle | None required | None |
| <i>Heteronychus arator</i> | Scarabaeidae | Black beetle | None required | None |
| <i>Hylastes ater</i> | Scolytidae | Black pine bark beetle | None required | None |
| <i>Hylurgus ligniperda</i> | Scolytidae | Golden haired bark beetle | None required | None |
| <i>Lochmaea suturalis</i> | Chrysomelidae | Leaf beetle | None required | None |
| <i>Lyctus brunneus</i> | Bostrichidae | Powderpost beetle | None required | None |
| <i>Mesites pallidipennis</i> | Curculionidae | Weevil | None required | None |
| <i>Nathrius brevipennis</i> | Cerambycidae | Longhorn beetle | None required | None |
| <i>Neolaemosaccus narinus</i> | Curculionidae | Weevil | None required | None |
| <i>Ocrosopsis subfasciata</i> | Chrysomelidae | Leaf beetle | None required | None |
| <i>Otiorhynchus ovatus</i> | Curculionidae | Strawberry root weevil | None required | None |
| <i>Otiorhynchus rugosostriatus</i> | Curculionidae | Rough strawberry root weevil | None required | None |
| <i>Otiorhynchus sulcatus</i> | Curculionidae | Black vine weevil | None required | None |
| <i>Paropsis charybdis</i> | Chrysomelidae | Eucalyptus tortoise beetle | None required | None |
| <i>Phloeosinus cupressi</i> | Scolytidae | Cypress bark beetle | None required | None |
| <i>Phlyctinus callosus</i> | Curculionidae | Garden weevil | None required | None |
| <i>Phoracantha semipunctata</i> | Cerambycidae | Common eucalypt longhorn | None required | None |
| <i>Pselactus spadix</i> | Curculionidae | Weevil | None required | None |
| <i>Rhyssonotus nebulosus</i> | Lucanidae | Stag beetle | None required | None |
| <i>Scolytus multistriatus</i> | Scolytidae | Smaller European elm bark beetle | None required | None |
| <i>Stenoscelis hylastoides</i> | Curculionidae | Weevil | None required | None |
| <i>Steriphus diversipes lineata</i> | Curculionidae | Weevil | None required | None |
| <i>Storeus albosignatus</i> | Curculionidae | Weevil | None required | None |
| <i>Syndesus cornutus</i> | Lucanidae | Stag beetle | None required | None |
| <i>Tessaromma undatum</i> | Cerambycidae | Longhorn beetle | None required | None |
| <i>Trachymela catenata</i> | Chrysomelidae | Small eucalyptus tortoise beetle | None required | None |
| <i>Trachymela sloanei</i> | Chrysomelidae | Small eucalyptus tortoise beetle | None required | None |
| <i>Xyleborinus saxeseni</i> | Scolytidae | Keyhole ambrosia beetle | None required | None |
| <i>Xylosandrus solidus</i> | Scolytidae | Ambrosia beetle | None required | None |

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