

# **Import Health Standard**

## **Poles, Piles, Rounds, and Sleepers**

### **from**

## **All Countries**

**Pursuant to Section 22 of the Biosecurity Act (1993)**  
**ISSUED: 16 April 2003**

### **CONTENTS**

	Page
<b>1</b> Official Contact Point	1
<b>2</b> General Import Requirements	2
<b>3</b> Specific Import Requirements for Poles, Piles, Rounds, and Sleepers	5
<b>4</b> Requirements on Arrival in New Zealand	8
<b>Appendix 1(a):</b> List of Regulated Pests Potentially Associated with Poles, Piles, Rounds, and Sleepers	10
<b>Appendix 1(b):</b> List of Non-Regulated Pests Potentially Associated with Poles, Piles, Rounds, and Sleepers	18
<b>Appendix 2:</b> MAF Approved Pest Free Areas for <i>Fusarium circinatum</i>	21

## **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:

**Director, Forest Biosecurity**  
**Ministry of Agriculture and Forestry**  
**PO Box 2526**  
**Wellington, NEW ZEALAND**

**Fax: 64 4 470 2741**  
**E-mail: forestihs@maf.govt.nz**  
**<http://www.maf.govt.nz>**

- 1.2 Import health standards for forest produce and other related documents are available at the following web site address:

<http://www.maf.govt.nz/biosecurity/imports/forests/>

## 2 GENERAL IMPORT REQUIREMENTS

### 2.1 SCOPE

2.1.1 This import health standard describes the phytosanitary requirements that must be met for poles, piles, rounds, and sleepers 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, Customs and Excise Act 1996).

2.2.2 This import health standard refers to the following documents:

- ◆ International Standard for Phytosanitary Measures, Glossary of Phytosanitary Terms, Pub. No. 5, 2001. <http://www.ippc.int/IPP/En/default.htm>
- ◆ International Standard for Phytosanitary Measures, Guidelines for phytosanitary certificates, Pub. No. 12, 2001. <http://www.ippc.int/IPP/En/default.htm>

### 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, 2001.

Bark	The outer protective covering of a tree formed by the cork cambium and phloem tissues.
Bark-free wood	Wood from which all bark excluding vascular cambium, ingrown bark around knots, and bark pockets between rings of annual growth has been removed [ISPM Pub. No. 15, 2002].
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 “..... 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”.
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.
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, 1996]</p> <p>Within New Zealand, an organism, defined by the New Zealand Biosecurity Act (1993);</p> <ul style="list-style-type: none"> <li>(a) Does not include a human being or a genetic structure derived from a human being;</li> <li>(b) Includes a micro-organism;</li> <li>(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):</li> <li>(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:</li> <li>(e) Includes a reproductive cell or developmental stage of an organism:</li> <li>(f) Includes any particle that is a prion.</li> </ul>
Pest	<p>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.</p>
Phytosanitary measure	<p>Any legislation, regulation or official procedure having the purpose to prevent the introduction and/or spread of quarantine pests, or to limit the economic impact of regulated non-quarantine pests [IPPC, 1997].</p>
Quarantine pest	<p>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].</p>
Raw wood	<p>Wood which has not undergone processing or treatment [ISPM Pub. No. 15, 2002].</p>
Regulated pest	<p>A quarantine pest or a regulated non-quarantine pest [IPPC, 1997].</p>
Sawn wood	<p>Wood sawn longitudinally, with or without its natural rounded surface with or without bark [FAO, 1990].</p>
Treatment	<p>Officially authorised procedure for the killing or removal of pests or rendering pests infertile [ICPM Pub. No. 15, 2002]</p>
Wood	<p>A commodity class for round wood, sawn wood, wood chips or dunnage, with or without bark [ICPM, 2001].</p>

## **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 Environment 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 POLES, PILES, ROUNDS, AND SLEEPERS**

### **3.1 GENERAL REQUIREMENTS**

- 3.1.1 Poles, piles, rounds, and sleepers' includes used railway sleepers and any wood pieces larger than 300mm in minimum thickness (cross-section). Wood pieces smaller than specified may be imported into New Zealand under the requirements of the import health standard for sawn wood.
- 3.1.2 A consignment of Poles, Piles, Rounds, or Sleepers must be:
- a) free of regulated pests (see Appendix 1 (a)).
  - b) packed and/or shipped in a manner that prevents infestation and/or contamination by regulated pests, if packaged prior to shipping. MAF considers the following as examples of appropriate packaging: plastic wrapping, 6 sided boxing, a closed shipping container etc.
  - c) relatively free of extraneous material (e.g. leaves, soil). MAF considers a contamination rate of 0.01% w/w extraneous material is considered acceptable.
  - d) bark-free wood.
- 3.1.3 Poles, piles, rounds, or sleepers from *Pinus* species and originating from areas not considered by MAF to be free of *Fusarium circinatum* (syn. *Fusarium subglutinans* f. sp. *pini*) (see Appendix 2) must be heat treated as stated in paragraph 3.3.3.
- 3.1.4 Used poles, piles, rounds, or sleepers must be treated as stated in paragraphs 3.3.2 or 3.3.3.

### **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 poles, piles, rounds, or sleepers are fumigated or heat-treated prior to export the poles, piles, rounds, or sleepers must be treated no more than twenty-one (21) days before export to New Zealand.
- 3.2.3 Break-bulk consignments of poles, piles, rounds, or sleepers must be transported to New Zealand in a manner that allows for pre-unloading inspection of the consignment. Prior approval must be obtained from the Director, Forest Biosecurity if poles, piles, rounds, or sleepers are to be imported in the hold of a ship.

### 3.3 TREATMENT OPTIONS

MAF accepts one or more of the following treatment options for poles, piles, rounds, and sleepers.

- 3.3.1 For NEW or UNUSED poles, piles, rounds, and sleepers only, fumigation with methyl bromide or sulphuryl fluoride of filleted or otherwise separated layers, at **80 g/m<sup>3</sup>** for more than 24 continuous hours, and in a minimum temperature of 10<sup>0</sup>C may be used.
- 3.3.2 For USED poles, piles, rounds, and sleepers, fumigation with methyl bromide or sulphuryl fluoride of filleted or otherwise separated layers, must be at **240 g/m<sup>3</sup>** for more than 24 continuous hours, and in a minimum temperature of 10<sup>0</sup>C.
- 3.3.3 Heat treatment for more than 4 hours at a minimum continuous core temperature of 70<sup>0</sup>C.
- 3.3.4 Chemical preservation to full sapwood penetration as specified in the following table:

Chemical	Minimum Retention
Boron compounds ( <i>insecticidal and limited fungicidal protection</i> )	0.1% Boric Acid equivalent minimum loading in the sapwood core
Copper + didecyldimethyl ammonium chloride (DDAC) ( <i>insecticidal &amp; fungicidal protection</i> )	0.35% mass/mass <b>OR</b> 2.8 kg/m <sup>3</sup> in softwood timbers, 5.60 kg/m <sup>3</sup> in hardwood timbers.
Copper azole ( <i>insecticidal &amp; fungicidal protection</i> )	0.27% mass/mass <b>OR</b> 1.35 kg/m <sup>3</sup> in softwood timbers, 2.7 kg/m <sup>3</sup> in hardwood timbers.
Copper Chrome Arsenic (CCA) ( <i>insecticidal &amp; fungicidal protection</i> )	0.27% mass/mass <b>OR</b> 3kg/m <sup>3</sup> minimum preservative retention
Arsenic ( <i>insecticidal protection only</i> )	0.04% minimum preservation loading in sapwood core
Permethrin ( <i>insecticidal protection only</i> )	Minimum retention of not less than 0.06% mass/mass

### 3.4 CERTIFICATION REQUIREMENTS

- 3.4.1 An import permit is not required to import poles, piles, rounds, or sleepers 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 poles, piles, rounds, or sleepers 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.

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, including the scientific or common name of the wood type(s).
- 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 poles, piles, rounds, or sleepers have been fumigated with \_\_\_\_\_ (methyl bromide or sulphuryl fluoride) \_\_\_\_\_ at \_\_\_\_\_ (Fumigant concentration (g/m<sup>3</sup>)) \_\_\_\_\_ 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 heat-treated may contain the following declaration:

**"The poles, piles, rounds, or sleepers have 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) \_\_\_\_\_."**

3.5.4 Certificates for consignments that have been chemically preserved may contain the following declaration:

**"The poles, piles, rounds, or sleepers have undergone chemical preservation using \_\_\_\_\_ (active ingredients of preservative) \_\_\_\_\_ by \_\_\_\_\_ (method of preservative application) \_\_\_\_\_ achieving a preservative active ingredient loading of \_\_\_\_\_ (kg/m<sup>3</sup>, or weight/weight %, or net dry salt retention) \_\_\_\_\_."**

### 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 poles, piles, rounds, and sleepers 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

- 4.0.1 The importer shall meet all costs specified in the Biosecurity (Costs) Regulations (2003) 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 New Zealand MAF will check the accompanying documentation on arrival to confirm that it reconciles with the actual consignment.
- 4.1.2 If original and appropriate certification is NOT provided the poles, piles, rounds, and sleepers will be considered untreated.
- 4.1.3 If the poles, piles, rounds, and sleepers are NOT packaged in a manner considered by MAF to adequately protect the poles, piles, rounds, and sleepers from re-infestation after treatment, or were NOT shipped within the required time period after treatment, the poles, piles, rounds, and sleepers will be considered untreated.
- 4.1.4 Each consignment of:
- untreated **USED** poles, piles, rounds, and sleepers will be treated (fumigated or heat treated as per the treatment specifications stated in section 3.3), reshipped, or destroyed. After treatment the poles, piles, rounds, and sleepers will be inspected for evidence of pests, or extraneous organic material (e.g. leaves, twigs, soil).
  - untreated **NEW** or **UNUSED** poles, piles, rounds, and sleepers will be inspected for evidence of pests, bark, or extraneous organic material (e.g. leaves, twigs, soil), reshipped, or destroyed. Inspection includes a 100% inspection of the exterior of each stack of sawn wood and a 10% piece by piece (board by board) inspection of each lot.
  - untreated poles, piles, rounds, and sleepers from *Pinus* sp. and originating from areas not considered by MAF to be free of *Fusarium circinatum* (syn. *Fusarium subglutinans* f. sp. *pini*) (see Appendix 2) must be heat treated (as per the treatment specifications stated in section 3.3), reshipped, or destroyed.
  - treated poles, piles, rounds, and sleepers will be inspected to verify that the treatment was effective.
- 4.1.5 All inspections 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 poles, piles, rounds, and sleepers shall 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 at the discretion of the Director, Forest Biosecurity;
  - 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. Goods treated under MAF supervision do not require further inspection under this standard unless stated otherwise.

## **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 Poles, Piles, Rounds, and Sleepers

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<b>Micro-organisms</b>				
<i>Atropellis tingens</i>	Fungus	Canker	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Caliciopsis pinea</i>	Fungus	Canker	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Calonectria ilicicola</i>	Fungus	Collar rot	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Calonectria indusiata</i>	Fungus	Root & stem rot	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Cronartium quercuum</i>	Fungus	Pine blister rust	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Cronartium quercuum</i> f.sp. <i>fusiforme</i>	Fungus	Stem rust	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Cryphonectria cubensis</i>	Fungus	Basal / stem canker	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Cryphonectria havanensis</i>	Fungus	Stem canker	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Dermea pini</i>	Fungus	Shoot blight	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Elytroderma deformans</i>	Fungus	Needle blight	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Endocronartium pini</i>	Fungus	Stem rust	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Gloeophyllum abietinum</i>	Fungus		Heat, Chemical	Treatment, Reshipping or Destruction
<i>Graphium</i> sp.	Fungus	Blue stain, wilt	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Heterobasidion annosum</i>	Fungus	Root rot	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Ischnoderma resinosum</i>	Fungus		Heat, Chemical	Treatment, Reshipping or Destruction
<i>Mucor spinosus</i>	Fungus		Heat, Chemical	Treatment, Reshipping or Destruction
<i>Ophiostoma leptographioides</i>	Fungus		Heat, Chemical	Treatment, Reshipping or Destruction
<i>Ophiostoma</i> sp.	Fungus	Blue stain, wilt	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Phacidium coniferarum</i>	Fungus	Pine canker, dieback	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Phellinus noxius</i>	Fungus	Wood rot	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Sparassis crispa</i>	Fungus	Root and butt rot	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Trametes trogii</i>	Fungus	Wound parasite	Heat, Chemical	Treatment, Reshipping or Destruction
<i>Trichaptum abietinus</i>	Fungus	Butt rot	Heat, Chemical	Treatment, Reshipping or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<b>Arthropods</b>				
<i>Abantiades latipennis</i>	Hepialidae	Ghost moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Acrocercops laciniella</i>	Gracillariidae	Blackbutt leaf miner	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Aenetus lignivorus</i>	Hepialidae	Common splendid ghost moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Aenetus paradiseus</i>	Hepialidae	Splendid ghost moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Agrilus opulentus</i>	Buprestidae	Flat headed borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Agrilus sexsignatus</i>	Buprestidae	Varicose borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Anaglyptus subfasciatus</i>	Cerambycidae	Cryptomeria twig borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Anoplolepis gracilipes</i>	Formicidae	Yellow crazy ant	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Anoplophora glabripennis</i>	Cerambycidae	Asian longhorned beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Antheraea helena</i>	Saturniidae	Helena moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Arhopalus productus</i>	Cerambycidae	New house borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Arhopalus rusticus</i>	Cerambycidae	Rusty longhorned beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Asemum striatum</i>	Cerambycidae	Black spruce borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Austroplatypus incomptus</i>	Platypodidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Bostrychoplites cornutus</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Buprestis aurulenta</i>	Buprestidae	Golden buprestid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Buprestis lecontei</i>	Buprestidae	Flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Buprestis maculativentris</i>	Buprestidae	Flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cacodacnus hebridanus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Callidium violaceum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Camponotus abdominalis</i>	Formicidae	Carpenter ant	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Camponotus herculeanus</i>	Formicidae	Carpenter ant	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Camponotus pennsylvanicus</i>	Formicidae	Carpenter ant	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cardiaspina squamula</i>	Psyllidae	Lerp psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Celosterna scabator</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium declaratum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium flavipes</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium guttaticolle</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium holophaeum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium longicorne</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium nilgiriensis</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium sinicum</i>	Cerambycidae	Brown twig-girgling longhorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Ceresium sinicum ornaticolle</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ceresium sinicum sinicum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Chloridolum cinnyris</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Chloridolum scytalicum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Chrysophtharta agricola</i>	Chrysomelidae	Southern eucalyptus leaf beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Chrysophtharta bimaculata</i>	Chrysomelidae	Tasmanian eucalyptus leaf beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptocercus vinicus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptotermes acinaciformis</i>	Rhinotermitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptotermes curvignathus</i>	Rhinotermitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptotermes formosanus</i>	Rhinotermitidae	Formosan subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptotermes frenchi</i>	Rhinotermitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Coptotermes sjostedti</i>	Rhinotermitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cordylomera spinicornis</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Crossotarsus externedentatus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cryphalus</i> sp.	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cryptotermes brevis</i>	Kalotermitidae	West Indian drywood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cryptotermes buxtoni</i>	Kalotermitidae	Drywood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cryptotermes cynocephalus</i>	Kalotermitidae	Drywood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Crypturgus borealis</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cyclorhipidion sexspinum</i>	Scolytidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Cyrtogenius fijianus</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus adjuncatus</i>	Scolytidae	Roundheaded pine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus brevicomis</i>	Scolytidae	Western pine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus frontalis</i>	Scolytidae	Southern pine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus ponderosae</i>	Scolytidae	Mountain pine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus pseudotsuga</i>	Scolytidae	Douglas fir beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus rufipennis</i>	Scolytidae	Spruce beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus terebrans</i>	Scolytidae	Black turpentine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dendroctonus valens</i>	Scolytidae	Red turpentine beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Diacavus diaphanus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Diapus pusillimus</i>	Platypodidae	Walnut pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Diapus quinquespinatus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dicera horni</i>	Buprestidae	Flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Didymuria violescens</i>	Phasmatidae	Spurlegged phasmatid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dinoderus bifoveolatus</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dinoderus minutus</i>	Bostrichidae	Ghoon borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Diorthus cinereus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Doratifera vulnerans</i>	Limacodidae	Mottled cup moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Dryocoetes</i> sp.	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Elaphidion nanum</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Epithora dorsalis</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ergates spiculatus</i>	Cerambycidae	Ponderous borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Eupogonius tomentosus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Glycaspis cameloides</i>	Spondyliaspidae	Lerp psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Glycaspis endasa</i>	Spondyliaspidae	Lerp psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Glycaspis nigrocincta</i>	Spondyliaspidae	Lerp psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Glycaspis particeps</i>	Spondyliaspidae	Lerp psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Gnathotrichus retusus</i>	Scolytidae	Spring gnathotrichus	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Gnathotrichus</i> spp.	Scolytidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Gnathotrichus sulcatus</i>	Scolytidae	Scratched-face ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hadrobregmus destructor</i>	Anobiidae	Pacific powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hemicoelus gibbicollis</i>	Anobiidae	Pacific powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes campestris</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes fasciculatus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes griseus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes heydeni</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes maculatus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesperophanes</i> spp.	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hesthesis cingulata</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heterobostrychus aequalis</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heterobostrychus brunneus</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heteronyx crinitus</i>	Scarabaeidae	Scarab beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heteronyx</i> n. sp. var. <i>comans</i>	Scarabaeidae	Scarab beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heteronyx striatipennis</i> var. <i>jabatus</i>	Scarabaeidae	Scarab beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Heterotermes</i> spp.	Rhinotermitidae	Subterranean termites	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hoplocerambyx spinicornis</i>	Cerambycidae	Sal borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Hylastes ater</i>	Scolytidae	Black pine bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylastes gracilis</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylastes macer</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylastes nigrinus</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylastes ruber</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylastes spp.</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylesinus varius</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylobius abietis</i>	Curculionidae	Large pine weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylobius pales</i>	Curculionidae	Pales weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylobius radialis</i>	Curculionidae	Pine root collar weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hylobius warreni</i>	Curculionidae	Warren's collar weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Hypertropha tortriciformis</i>	Hypertrophidae		Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Incisitermes spp.</i>	Kalotermitidae	Drywood termites	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips acuminatus</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips calligraphus</i>	Scolytidae	Eastern six-spined engraver	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips erosus</i>	Scolytidae	Mediterranean pine engraver	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips grandicollis</i>	Scolytidae	Eastern five-spined engraver	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips mexicanus</i>	Scolytidae	Monterey pine ips	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips paraconfusus</i>	Scolytidae	California five-spined ips	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips pini</i>	Scolytidae	Pine engraver	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips plastographus maritimus</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips sexdentatus</i>	Scolytidae	Six-toothed bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Ips typographus</i>	Scolytidae	European spruce bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Kalotermes arizonensis</i>	Kalotermitidae	Drywood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Kalotermes hilli</i>	Kalotermitidae	Drywood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Lithurge scabrosus</i>	Megachilidae	Leaf cutting bee	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Lophyrotoma interrupta</i>	Pergidae	Cattle poisoning sawfly	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Lyctus africanus</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Lyctus planicollis</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Lyctus sinensis</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Macrones rufus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Mastotermes darwiniensis</i>	Mastotermitidae	Giant northern termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Megacyllene caryae</i>	Cerambycidae	Painted hickory borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Melanophila californica</i>	Buprestidae	California flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Microcerotermes</i> spp.	Termitidae	Termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Minthea reticulata</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Minthea rugicollis</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Minthea squamigera</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Mnesampela privata</i>	Geometridae	Autumn gum moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Molorchus minor</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monarthrum</i> nr. <i>Hoegi</i>	Scolytidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus alternatus</i>	Cerambycidae	Rusty pine longhorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus bimaculatus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus clamator</i>	Cerambycidae	Spotted pine sawyer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus gravidus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus guerryi</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus guttatus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus impluviatus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus notatus</i>	Cerambycidae	Northeastern sawyer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus obtusus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus saltuarius</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus scutellatus</i>	Cerambycidae	White-spotted sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus sparsutus</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus sutor</i>	Cerambycidae	Small white-marmorated longicorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Monochamus urusovi</i>	Cerambycidae	Sawyer beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Nacerdes melanura</i>	Oedemeridae	Wharf borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Nascio vetusta</i>	Buprestidae	Flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Nascioides parryi</i>	Buprestidae	Flatheaded borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Nasutitermes exitiosis</i>	Termitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Neoclytus acuminatus</i>	Cerambycidae	Redheaded ash borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Neotermes insularis</i>	Kalotermitidae	Ring ant termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Olethrius tyrannus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Opsimus quadrilinea</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Orthotomicus caelatus</i>	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Orthotomicus</i> sp.	Scolytidae	Bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Paralaea beggaria</i>	Geometridae	Peppermint looper	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Parisopalpus macleayi</i>	Oedemeridae	False blister beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Paropsis atomaria</i>	Chrysomelidae	Eucalyptus tortoise beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Paratrechina longicornis</i>	Formicidae	Crazy ant	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Perga affinis insularis</i>	Pergidae	Large green sawfly	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phaloeophagus brunneus</i>	Curculionidae	Weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phlyctaenodes pustulosus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phoracantha recurva</i>	Cerambycidae	Yellow longicorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phoracantha tricuspis</i>	Cerambycidae	Common longicorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phylacteophaga</i> sp.	Hymenoptera	Leafblister sawfly	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Phymatodes testaceus</i>	Cerambycidae	Tanbark borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Pissodes nemorensis</i>	Curculionidae	Deodar weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Plagionotus arcuatus</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus bifurcus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus jansoni</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus micrurus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus shoreanus</i>	Platypodidae	Pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus subgranosus</i>	Platypodidae	Mountain pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Platypus wilsoni</i>	Scolytidae	Wilson's wide-headed ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Podacanthus wilkinsoni</i>	Phasmatidae	Gregarious phasmatid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Polygraphus rufipennis</i>	Scolytidae	Four-eyed spruce bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Popilius disjunctus</i>	Passalidae	Bess beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Porotermes adamsonii</i>	Termopsidae	Dampwood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Psaltoda moerens</i>	Cicadidae	Red eye cicada	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Pseudoperga lewisii</i>	Pergidae	Pale brown sawfly	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Reticulitermes hesperus</i>	Rhinotermitidae	Western subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Reticulitermes</i> spp.	Rhinotermitidae	Subterranean termites	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Rhachiodes dentifer</i>	Curculionidae	Weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Schedorhinotermes intermedius</i>	Rhinotermitidae	Subterranean termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Schedotrioza marginata</i>	Triozidae	Psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Schedotrioza multitudinea</i>	Triozidae	Psyllid	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Scolecobrotus westwoodi</i>	Cerambycidae	Roughshouldered longicorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Scolytus intricatus</i>	Scolytidae	European oak bark beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Scolytus</i> spp.	Scolytidae	Engraver beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Semanotus amethystinus</i>	Cerambycidae	Amethyst cedar borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Semanotus ligneus ampla</i>	Cerambycidae	Cedar tree borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Semanotus litigiosus</i>	Cerambycidae	Long horn beetles	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Serropalpus barbatus</i>	Melandryidae	False darkling beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Shirahoshizo</i> sp.	Curculionidae	Pine weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Sinoxylon anale</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Sirex areolatus</i>	Siricidae	Woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Sirex cyaneus</i>	Siricidae	Blue horntail or woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Sirex juvencus</i>	Siricidae	Woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Sirex noctilio</i>	Siricidae	Steel blue wood wasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Stephanopachys rugosus</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Strictoleptura canadensis</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Stromatium longicorne</i>	Cerambycidae	Tropical longicorne	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Strongylorhinus ochraceous</i>	Curculionidae	Weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Syarbis alcyone</i>	Curculionidae	Weevil	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Tetropium cinnamopterum parvulum</i>	Cerambycidae	Northern spruce borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Tetropium fuscum</i>	Cerambycidae	Brown spruce longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Tetropium velutinum</i>	Cerambycidae	Western larch borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Tomicus piniperda</i>	Scolytidae	Pine shoot beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Trachykele blondeli</i>	Buprestidae	Western cedar borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Trogoxylon parallelopipedum</i>	Lyctidae	Powderpost beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Tryphocaria mastersi</i>	Cerambycidae	Bulls-eye borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Trypodendron lineatum</i>	Scolytidae	Striped ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Uraba lugens</i>	Noctuidae	Gum leak skeletoniser	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Urocerus albicornis</i>	Siricidae	Banded horntail or woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Urocerus gigas</i>	Siricidae	Greater horntail or woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xeris tarsalis</i>	Siricidae	Woodwasp	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xyleborus affinis</i>	Scolytidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xyleborus ferrugineus</i>	Scolytidae	Ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xyleborus perforans</i>	Scolytidae	Island pinhole borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xyleutes</i> spp.	Cossidae	Wood moth	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xylion securifer</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xyloperthala crinitarsis</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Xylopsocus capucinus</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xylopsocus castanoptera</i>	Bostrichidae	Bostrychid beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xylosandrus crassiusculus</i>	Scolytidae	Asian ambrosia beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xylothrips religiosus</i>	Bostrichidae	Northern auger beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xylotrechus undulatus</i>	Cerambycidae	Rustic borer	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Xystrocera globosa</i>	Cerambycidae	Green-striped albizzia longicorn	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Zootermopsis angusticollis</i>	Hodotermitidae	Pacific dampwood termite	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Zygcocera canosa</i>	Cerambycidae	Longhorn beetle	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<b>Nematodes</b>				
<i>Bursaphelenchus</i> spp.	Nematode	Pine wood neamtode	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction
<i>Bursaphelenchus xylophilus</i>	Nematode	Pine wilt nematode	Fumigation, Heat, Chemical	Treatment, Reshipment or Destruction

## Appendix 1 (b)

### List of Non-Regulated Pests Potentially Associated with Poles, Piles, Rounds, and Sleepers

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<b>Micro-organisms</b>				
<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>Lasiodiplodia theobromae</i>	Fungus	Java black rot	None Required	None
<i>Nectria haematococca</i>	Fungus	Root rot	None Required	None
<i>Nigrospora sphaerica</i>	Fungus	Nigrospora 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 harzianum</i>	Fungus	Trichoderma rot	None Required	None

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<b>Arthropods</b>				
<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 scutellaris</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
<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

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

Scientific Name	Organism Type	Common Name	MAF Approved Phytosanitary Treatment Options (see Note)	Contingency for interception
<i>Otiorrhynchus 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

**Note:** Fumigation = Methyl bromide or sulphuryl fluoride; Heat = 70°C for specified time (see text); Chemical = Application of a suitable chemical preservative (see text).

## Appendix 2

### NEW ZEALAND MINISTRY OF AGRICULTURE AND FORESTRY APPROVED PEST FREE AREAS FOR *Fusarium circinatum* (syn. *Fusarium subglutinans* f. sp. *pini*)

NAME OF COUNTRY	States/Provinces with approved pest free status within each Country
Argentina	All
Australia	All
Austria	All
Belgium	All
Brazil	All
Canada	All
Czech Republic	All
Denmark	All
Finland	All
France	All
Germany	All
Greece	All
Hungary	All
Ireland	All
Luxembourg	All
Netherlands	All
Norway	All
Poland	All
Portugal	All
Slovakia	All
Switzerland	All
Sweden	All
Turkey	All
United Kingdom	All
USA	Alaska, Colorado, Connecticut, Delaware, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Maryland, Maine, Massachusetts, Minnesota, Montana, Michigan, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Dakota, Utah, Vermont, Washington, West Virginia, Wisconsin, Wyoming

No other countries/states/provinces are New Zealand Ministry of Agriculture and Forestry approved pest free areas for *Fusarium circinatum* (syn. *Fusarium subglutinans* f. sp. *pini*).