



Commodity-specific phytosanitary measures

PM 8/11 (1) *Fraxinus*

Specific scope

The purpose of the EPPO Standard on *Fraxinus* is to recommend to EPPO Member Governments the phytosanitary measures, which they should use or require for *Fraxinus* plants and plant products moving in international trade, to prevent the introduction and spread of quarantine pests. Some of these recommendations are addressed to all EPPO Member Governments, others are addressed only to countries considered to face a certain level of risk from the introduction and spread of the regulated pests concerned. All these recommendations were derived from:

- EPPO Standards PM 1/2 (EPPO A1 and A2 lists) and the former EPPO Standards PM 2 (pest-specific phytosanitary measures), or
- Pest Risk Analysis carried out or reviewed by EPPO, or
- The Working Party on Phytosanitary Regulations.

For wood packaging material, recommendations are based on ISPM 15 *Regulation of wood packaging material in international trade*.

Specific approval and amendment

First approved in 2019-09.

1. Plants and commodities concerned

This Standard relates to all plants and plant products of the genus *Fraxinus*.

The Standard concerns the commodities that are regularly traded, i.e. wood (including non-treated wood in manufactured articles), bark, plants for planting and cut branches. Wood packaging material, although not a commodity *per se*, is also included. Plants for planting are considered in general at the genus level. *Fraxinus* wood may be traded as pure or mixed consignments, e.g. wood chips obtained from woody plants of different genera. Since the genus should be indicated on the phytosanitary certificates, every genus present should be specified in the case of mixed consignments. Such consignments should satisfy all the requirements for every genus present.

Commodities concerned

Wood (as a commodity class) – Commodities such as round wood, sawn wood, wood chips and wood residue, with or without bark, excluding wood packaging material, processed wood material and bamboo products (ISPM 5).

Round wood – Wood not sawn longitudinally, carrying its natural rounded surface, with or without bark (ISPM 5). Branches of woody plants used for bioenergy production should be considered under this category of commodities.

Sawn wood – Wood sawn longitudinally, with or without its natural rounded surface, with or without bark (ISPM 5).

Processed wood material – Products that are a composite of wood constructed using glue, heat and pressure, or any combination thereof (ISPM 5).

Manufactured wood items – To be added when defined under the ISPM (under development) on ‘International movement of wood products and handicrafts made of wood’.

Harvesting residues – Wood material consisting of any parts of trees left on the site after round wood harvesting (*EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Processing wood residues – Parts of wood and bark that are left after the process of transforming round wood into sawn wood and further transformation of sawn wood (*EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Wood chips – Wood with or without bark in the form of pieces with a definable particle size produced by mechanical treatment with sharp tools (*EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Hogwood – Wood with or without bark in the form of pieces of varying particle size and shape, produced by crushing with blunt tools such as rollers, hammers, or flails (*EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Post-consumer scrap wood – Wide variety of wood material from ex-commercial, industrial and domestic use made available for recycling (*EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Wood packaging material – Wood or wood products (excluding paper products) used in supporting, protecting or carrying a commodity (includes dunnage) (ISPM 5). Because this is not a commodity *per se*, it is separated from wood. It includes wooden structures that accompany traded commodities such as pallets, boxes, crates, spools and dunnage (maintain as in ISPM 15).

Cut branches (including coppiced stems) – Defined as part of the ‘cut flowers and branches’ definition in ISPM 5 as ‘a commodity class for fresh parts of plants intended for decorative use and not for planting’.

Bark (as a commodity) – Bark separated from wood (ISPM 5). Bark may contain pieces of wood with it.

Plants for planting – Plants intended to remain planted, to be planted or replanted (ISPM 5). This commodity type includes nursery plants such as seedlings (1–5 years old, used for re-forestation) and seeds. It also includes quite large trees (<20 years) for transplanting to gardens, amenity plantings or architectural plantings and includes naturally or artificially dwarfed plants (bonsais). The risks of transporting regulated pests are different for trees of different ages.

1.1. Other definitions

Appropriate treatment – A treatment applied according to official technical specification that is effective for the pest and commodity concerned. Details of appropriate treatments should be specified on the phytosanitary certificate.

Bark – The layer of a woody trunk, branch or root outside the cambium (ISPM 5).

Bark-free wood – Wood from which all bark, except ingrown bark around knots and bark pockets between rings of annual growth, has been removed (ISPM 5).

Debarked wood – Wood that has been subjected to any process that results in the removal of bark (debarked wood is not necessarily bark-free wood) (ISPM 5).

Debarking – A process designed to remove a large majority of the bark and thereby produce debarked wood.

Heat treatment – A process in which a commodity is heated until it reaches a minimum temperature for a minimum period of time according to an official technical specification (ISPM 5).

2. Pests of *Fraxinus* recommended for regulation

This Standard relates to the EPPO A1 and A2 pests which are recommended for regulation as quarantine pests (EPPO Standard PM 1/2) for which *Fraxinus* can be a significant pathway of introduction. The phytosanitary measures described in the Standard are primarily aimed at preventing the introduction and spread of these specific pests in the

EPPO region. Details on these pests can be found on the EPPO website (www.eppo.int), in *Quarantine Pests for Europe* (EPPO/CABI, 1997) or in the *EPPO Bulletin* for more recent additions to the lists.

2.1. Pests of *Fraxinus*

A1 pests	A2 pests
Insects <i>Anoplophora glabripennis</i> <i>Homalodisca vitripennis</i> <i>Lycorma delicatula</i> <i>Malacosoma americanum</i> <i>Malacosoma distria</i>	Insects <i>Aeolesthes sarta</i> <i>Agrilus planipennis</i> <i>Megaplatypus mutatus</i>

The above lists cover all pests which are recommended for regulation by EPPO and for which *Fraxinus* commodities are significant potential pathways of introduction.

They do not necessarily cover all regulated pests which have been recorded on *Fraxinus*.

New emerging pest situations, based on PRA, may lead to addition of pests to the Standard.

3. Commodity-specific phytosanitary requirements for *Fraxinus*

Each pest recommended for regulation has been considered by the EPPO Working Party on Phytosanitary Regulations and pest-specific phytosanitary requirements (PAPRs) were recommended (EPPO Standards PM 2, withdrawn in 2006). These former pest-specific requirements have been analysed and their content reviewed and rearranged into recommended commodity-specific requirements for *Fraxinus*. Phytosanitary measures for recently EPPO listed (A1 or A2) pests were taken from the pest risk management part of pest risk analysis (PRA) performed by the EPPO Expert Working Groups and reformatted by the EPPO Panel on Quarantine Pests for Forestry.

The commodity-specific requirements also include general measures for polyphagous, contaminating and other non-indigenous pests which may be associated with consignments of *Fraxinus*.

In many places the commodity-specific requirements refer to specific phytosanitary procedures. These are described in detail in separate EPPO Standards or in appendices to this Standard.

Normally, it is recommended that the requirements fulfilled by the exporting countries and stated on the phytosanitary certificate are accepted by the importing country. However, in certain cases where the trade is new, there remains a degree of uncertainty about the adequacy of the application of the measures, which can only be resolved by following appropriate transitional procedures. These procedures should be developed in the framework of transitional arrangements. Cases where such special procedures may apply are specifically identified in this section, and the

corresponding requirements are preceded by the phrasing ‘subject, where appropriate, to special procedures under transitional arrangements’.

Regulation of *Fraxinus* pests

A1 pests

All EPPO countries are recommended to regulate as quarantine pests the *Fraxinus* pests in the EPPO A1 list (see Section 2).

A2 pests

For EPPO A2 pests recommended for regulation (see Section 2), EPPO countries where a given A2 pest is not

present, or where it is not widely distributed, are recommended to regulate it as a quarantine pest. If they do, they are recommended to make the requirements specified for this pest.

4. List of recommended phytosanitary measures

Note: In the tables below, when ‘OR’ or ‘AND’ is written in capitals this separates two sections of options. When ‘or’ or ‘and’ is not in capitals, this separates only one option from another.

4.1. Requirements for *Fraxinus*

Plants for planting of <i>Fraxinus</i>	PC and, if necessary, RC
Plants for planting of <i>Fraxinus</i> other than seeds and plants in tissue culture	Dormant, clean (i.e. free from plant debris) and free from leaves, flowers and seeds Grown in nurseries Inspected prior to export and found free from bacteria, viruses and virus-like organisms, or subjected to appropriate treatment to eliminate such organisms
Plants for planting of <i>Fraxinus</i> in tissue culture	Grown in approved tissue culture facilities in sterile conditions The plants and growing medium inspected prior to export and found free from bacteria, viruses and virus-like organisms, or subjected to appropriate treatment to eliminate such organisms
Plants for planting of <i>Fraxinus</i> with soil or growing medium attached or associated	Grown according to EPPO Standard PM 3/54
Plants for planting (except seeds) of <i>Fraxinus</i> originating in countries where any of the following pests is present: <i>Aeolesthes sarta</i> <i>Agrilus planipennis</i> <i>Anoplophora glabripennis</i> <i>Homalodisca vitripennis</i> <i>Lycorma delicatula</i> <i>Malacosoma americanum</i> <i>Malacosoma disstria</i> <i>Megaplatypus mutatus</i>	Free from the relevant pests listed in the left-hand column
Plants for planting (except seeds) of <i>Fraxinus</i> originating in countries where any of the following pests are present: <i>Aeolesthes sarta</i> <i>Agrilus planipennis</i> <i>Anoplophora glabripennis</i>	Pest-free area for the respective pests listed in the left-hand column or Grown according to the EPPO Standard PM 5/8 on the phytosanitary measure ‘plants grown under complete physical isolation’ AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation

(continued)

Table (continued)

Plants for planting (except seeds) of <i>Fraxinus</i> originating in countries where <i>Homalodisca vitripennis</i> or <i>Lycorma delicatula</i> is present	Pest-free area for the respective pests or Pest-free place of production for the respective pests or Grown according to the EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation' AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation
Plants for planting (except seeds) of <i>Fraxinus</i> originating in countries where <i>Malacosoma americanum</i> or <i>M. disstria</i> is present	Pest-free area for the respective pests or Grown according to the EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation' or Appropriate fumigation, details to be specified on the phytosanitary certificate AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation
Plants for planting (except seeds) of <i>Fraxinus</i> of more than 15 cm in diameter originating in countries where <i>Megaplatus mutatus</i> is present	Pest-free area for <i>M. mutatus</i> or Pest-free place of production for <i>M. mutatus</i> with a buffer zone of 200 m or Originate from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation' AND Transported outside of <i>M. mutatus</i> flight periods or Not transported through areas infested with <i>M. mutatus</i> or Transported closed, to prevent infestation

PC, Phytosanitary Certificate; RC, Re-export Phytosanitary Certificate.

Cut branches of <i>Fraxinus</i>	PC and, if necessary, RC
Cut branches of <i>Fraxinus</i> originating in countries where any of the following pests is present: <i>Agrilus planipennis</i> <i>Anoplophora glabripennis</i> <i>Homalodisca vitripennis</i> <i>Malacosoma americanum</i> <i>Malacosoma disstria</i>	Free from the relevant pests listed in the left-hand column
Cut branches of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> is present	Pest-free area for <i>A. planipennis</i>

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Table (continued)

Cut branches of <i>Fraxinus</i> originating in countries where <i>Anoplophora glabripennis</i> is present	Pest-free area for <i>A. glabripennis</i> AND Transported outside of <i>A. glabripennis</i> flight periods or Not transported through areas infested with <i>A. glabripennis</i> or Transported closed, to prevent infestation
Cut branches of <i>Fraxinus</i> originating in countries where <i>Homalodisca vitripennis</i> or <i>Lycorma delicatula</i> is present:	Pest-free area for the respective pests or Pest-free place of production for the respective pests or Originate from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation' or Branches smaller than 1 cm in diameter AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation
Cut branches of <i>Fraxinus</i> originating in countries where <i>Malacosoma americanum</i> or <i>M. disstria</i> is present	Pest-free area for the respective pests or From plants grown according to the EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation' or Appropriate fumigation, details to be specified on the phytosanitary certificate AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation

PC, Phytosanitary Certificate; RC, Re-export Phytosanitary Certificate.

Wood of <i>Fraxinus</i>	PC and, if necessary, RC
Wood of <i>Fraxinus</i> originating in countries where any of the following pests is present: <i>Aeolesthes sarta</i> <i>Agrilus planipennis</i> <i>Anoplophora glabripennis</i> <i>Lycorma delicatula</i> <i>Megaplatypus mutatus</i>	Free from the relevant pests listed in the left-hand column

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Table (continued)

Wood (except harvesting wood residues, processing wood residues, wood chips and hogwood) with or without bark of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> is present	Pest-free area for <i>A. planipennis</i> or Heat-treatment according to EPPO Standard PM 10/6 or Treated with ionizing radiation according to EPPO Standard PM 10/8 or Removal of bark and 2.5 cm of outer sapwood in authorized facilities AND Transported outside of <i>A. planipennis</i> flight periods or Not transported through areas infested with <i>A. planipennis</i> or Transported closed, to prevent infestation
Wood (except harvesting wood residues, processing wood residues, wood chips and hogwood) of <i>Fraxinus</i> originating in countries where <i>Megaplatypus mutatus</i> is present	Pest-free area for <i>M. mutatus</i> or Pest-free place of production for <i>M. mutatus</i> and a buffer zone of 200 m or Heat treatment according to EPPO Standard PM 10/6 or Treated with ionizing radiation according to EPPO Standard PM 10/8 or Appropriate fumigation, details to be specified on the phytosanitary certificate AND Transported outside of <i>M. mutatus</i> flight periods or Not transported through areas infested with <i>M. mutatus</i> or Transported closed, to prevent infestation
Round wood with bark of <i>Fraxinus</i> originating in countries where <i>Aeolesthes sarta</i> or <i>Anoplophora glabripennis</i> is present	Pest-free area for the respective pests or Debarking and heat-treatment according to EPPO Standard PM 10/6 or Treated with ionizing radiation according to EPPO Standard PM 10/8 AND Transported outside of the corresponding flight periods or Not transported through areas infested with the relevant pest or Transported closed, to prevent infestation
Round and sawn wood of <i>Fraxinus</i> originating in countries where <i>Lycorma delicatula</i> is present	Pest-free area for <i>L. delicatula</i> or Bark freedom or Heat-treatment according to EPPO Standard PM 10/6 or Treated with ionizing radiation according to EPPO Standard PM 10/8 AND Transported outside of <i>L. delicatula</i> flight periods or Not transported through areas infested with <i>L. delicatula</i> or Transported closed, to prevent infestation

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Sawn wood without bark of <i>Fraxinus</i> originating in countries where <i>Aeolesthes sarta</i> or <i>Anoplophora glabripennis</i> is present	Pest-free area for the respective pests or Heat-treated according to EPPO Standard PM 10/6 or Treated with ionizing radiation according to EPPO Standard PM 10/8
Harvesting wood residues, processing wood residues, wood chips and hogwood of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> is present	Pest-free area for <i>A. planipennis</i> or Appropriate heat-treatment against <i>A. planipennis</i> or obtained from wood heat treated according to EPPO Standard PM 10/6 or Obtained from wood treated with ionizing radiation according to EPPO Standard PM 10/8 AND Transported outside of <i>A. planipennis</i> flight periods or Not transported through areas infested with <i>A. planipennis</i> or Transported closed, to prevent infestation
Harvesting wood residues, processing wood residues, wood chips and hogwood of <i>Fraxinus</i> originating in countries where <i>Lycorma delicatula</i> is present	Pest-free area for <i>L. delicatula</i> or Chipped to pieces of less than 2.5 cm in two dimensions or Obtained from bark-free wood or Appropriate heat-treatment, details to be specified on the phytosanitary certificate or Appropriate ionizing radiation treatment, details to be specified on the phytosanitary certificate AND Transported outside of <i>L. delicatula</i> flight periods or Not transported through areas infested with <i>L. delicatula</i> or Transported closed, to prevent infestation
Items manufactured from wood of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> is present	Made from wood originating in pest-free area for <i>A. planipennis</i> or Made from wood whose bark and 2.5 cm of outer sapwood have been removed in authorized facilities or Appropriate ionizing radiation treatment, details to be specified on the phytosanitary certificate AND Transported outside of <i>A. planipennis</i> flight periods or Not transported through areas infested with <i>A. planipennis</i> or Transported closed, to prevent infestation
Wood packaging material of <i>Fraxinus</i>	Compliant with requirements of ISPM 15

PC, Phytosanitary Certificate; RC, Re-export Phytosanitary Certificate.

Bark of <i>Fraxinus</i>	PC and, if necessary, RC
Bark of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> or <i>Lycorma delicatula</i> is present	Free from <i>A. planipennis</i> and <i>L. delicatula</i>
Bark of <i>Fraxinus</i> originating in countries where <i>Agrilus planipennis</i> is present	Pest-free area for <i>A. planipennis</i>
Bark of <i>Fraxinus</i> originating in countries where <i>Lycorma delicatula</i> is present	Pest-free area for <i>L. delicatula</i> or Chipped to pieces of less than 2.5 cm in two dimensions or Appropriate heat-treatment, details to be specified on the phytosanitary certificate or Appropriate ionizing radiation treatment, details to be specified on the phytosanitary certificate AND Transported outside of <i>L. delicatula</i> flight periods or Not transported through areas infested with <i>L. delicatula</i> or Transported closed, to prevent infestation

PC, Phytosanitary Certificate; RC, Re-export Phytosanitary Certificate.

5. List of associated Standards

It is proposed that individual phytosanitary procedures would be maintained as separate EPPO Standards, but that they should be part of a package that will always accompany the Standard when approved.

The following Standards are referred to:

EPPO Standards PM 1: General phytosanitary measures

PM 1/2 *EPPO A1 and A2 Lists of pests recommended for regulation as quarantine pests*

EPPO Standards PM 3: Phytosanitary procedures

PM 3/29 *General export inspection procedure for glasshouse and nursery enterprises*
 PM 3/54 *Growing plants in growing medium prior to export*
 PM 3/60 *Testing growing medium and plants in growing medium*

EPPO Standards PM 5: Pest risk analysis

PM 5/8 *Guidelines on the phytosanitary measure 'Plants grown under complete physical isolation'*

EPPO Standards PM 10: Phytosanitary treatments

PM 10/6 *Heat treatment of wood to control insects and wood-borne nematodes*
 PM 10/8 *Disinfestation of wood with ionizing radiation*

International Standards for Phytosanitary measures

ISPM 4 *Requirements for the establishment of pest free areas, 1996. FAO, Rome*
 ISPM 5 *Glossary of phytosanitary terms, 2015. FAO, Rome*
 ISPM 10 *Requirements for the establishment of pest-free places of production and pest free production sites, 1999. FAO, Rome*
 ISPM 15 *Regulation of wood packaging material in international trade, 2013. FAO, Rome*

Other documents are referred to:

EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items, 2015:
https://www.eppo.int/media/uploaded_images/RESOURCES/eppo_publications/td_1071_study_wood_commodities.pdf.

EPPO PRAs: https://www.eppo.int/ACTIVITIES/plant_quarantine/pr_activities.