

Import Health Standard
Commodity Sub-class: Fresh Fruit/Vegetables
Papaya, (*Carica papaya*) from Vanuatu

ISSUED

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Endorsement

Import health standards for plants and plant products imported into New Zealand are a requirement under the Biosecurity Act 1993 and are prepared by the Ministry of Agriculture and Forestry.

This standard was endorsed by the Deputy Chief Technical Officer, Pre-Clearance, Biosecurity New Zealand on 30 May 2006.

Clive Gower-Collins
Deputy Chief Technical Officer, Pre-Clearance
(acting under delegated authority)

Review and amendment

New Zealand MAF import health standards are subject to periodic review and amendment.

New Zealand import health standards covering the importation of plants and plant products are updated and republished as necessary with the most recent version published on the MAF web site.

Distribution

Import health standards relating to plants and plant products are distributed by the New Zealand Ministry of Agriculture and Forestry. They are made available for public access on the New Zealand Ministry of Agriculture and Forestry web site:
<http://www.biosecurity.govt.nz/imports/plants/index.htm>

INTRODUCTION

SCOPE

This import health standard describes the requirements that must be met prior to shipment, in-transit and on arrival to enable biosecurity clearance to be given for fresh papaya (*Carica papaya*) imported into New Zealand from Vanuatu.

This standard is replicated at the following Internet address:

<http://www.biosecurity.govt.nz/imports/plants/index.htm>

Generic requirements for the importation of all fresh fruit and vegetables into New Zealand are described in *MAF Biosecurity Standard 152.02: Importation and Clearance of Fresh Fruit and Vegetables into New Zealand*.

DEFINITIONS ABBREVIATIONS AND ACRONYMS

Refer to the International Standards for Phytosanitary Measures (ISPM) No. 5 *Glossary of Phytosanitary Terms* for generic terms. Specific terms relevant to this import health standard are described below.

Bilateral quarantine arrangement

An inter-agency technical arrangement between the New Zealand Ministry of Agriculture and Forestry and the counterpart National Plant Protection Organisation which documents New Zealand's requirements for the control of fruit fly species of economic significance (i.e. those fruit fly species categorised as pests) that are associated with fruit fly host material imported into New Zealand.

Biosecurity clearance

A clearance under section 26 of the New Zealand Biosecurity Act 1993 for the entry of goods into New Zealand.

High impact pest	High impact pests are regulated pests that if introduced into New Zealand would have a major effect on the production (including access to overseas markets) of plants and plant products and/or the environment.
Import health standard	A document issued under section 22 of the Biosecurity Act 1993 that specifies “... <i>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 a biosecurity clearance</i> ”.
MAF	Ministry of Agriculture and Forestry. Acronym for the Ministry of Agriculture and Forestry which is the New Zealand national plant protection organisation.
NPPO	Abbreviation for National Plant Protection Organisation.
Viable	Capable of maintaining life, or able to live in a particular environment and able to procreate.

NEW ZEALAND LEGISLATIVE REQUIREMENTS AND INTERNATIONAL OBLIGATIONS

All New Zealand import health standards are based upon risk analyses, which may assess either a commodity or a pest/pathway combination. New Zealand’s legislative requirements and international obligations are taken into account when conducting risk analyses and applying the findings in the development of import health standards. The principal document for all New Zealand import health standards relating to plants and plant products is the Biosecurity Act (1993), whilst the international obligations derive principally from the guidelines on risk analysis developed under the auspices of the Interim Commission on Phytosanitary Measures (now the Commission on Phytosanitary Measures) operating within the framework of the International Plant Protection Convention, and the World Trade Organisation Agreement on the Application of Sanitary and Phytosanitary Measures.

IMPORT HEALTH STANDARD: FRESH FRUIT/VEGETABLES – PAPAYA (*Carica papaya*) FROM VANUATU.

1 Official contact point (New Zealand National Plant Protection Organisation)

The official contact point in New Zealand for overseas NPPOs is the Ministry of Agriculture and Forestry. All communication pertaining to this import health standard should be addressed to:

Manager, Biosecurity Standards
Ministry of Agriculture and Forestry
PO Box 2526
Wellington
NEW ZEALAND

Fax: 64-4-819 0662
E-mail: PlantImports@maf.govt.nz
<http://www.biosecurity.govt.nz>

2 General conditions for the importation of all plants and plant products

Plants and plant products are not permitted entry into New Zealand unless an import health standard has been issued in accordance with Section 22 of the Biosecurity Act 1993. Should plants or plant products, for which no import health standard exists, be intercepted by New Zealand MAF, the importer will be offered the option of reshipment or destruction of the consignment (at their expense).

The NPPO of the exporting country is requested to inform New Zealand MAF of any change of address.

The NPPO of the exporting country is required to inform New Zealand MAF of any newly recorded pests which may infest/infect any commodity approved for export to New Zealand.

Pursuant to 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 or e-mail: info@ermanz.govt.nz

[Note: In order to meet the Environmental Risk Management Authority's requirements the scientific name (i.e. genus and species) of the commodity must be included in the phytosanitary certificate.]

3 Explanation of pest categories

New Zealand MAF categorises pests associated with plants and plant products into regulated and non-regulated pests. Measures to prevent the introduction of regulated pests to New Zealand are developed in accordance with the appropriate FAO ISPMs and other relevant international standards.

Regulated pests are those pests for which actions would be undertaken if they were intercepted/detected. As well as quarantine pests, these include new organisms as defined by the Hazardous Substances and New Organisms Act 1996, pests that may pose a risk to human or animal health or to the environment, vectors of associated quarantine pests, and virulent strains (not present in New Zealand) of non-regulated pests and contaminants. Non-regulated pests are those pests for which actions would not be undertaken if they were intercepted/detected.

Pests (including weeds) associated with each commodity will appear on a separate pest list which will be attached to each import health standard as an Appendix.

4 Application of measures

A number of different measures may be applied to pests based on the outcome of pest risk analyses. Required measures may include:

- Surveillance for pest freedom
- Testing prior to export for regulated pests which cannot be readily detected by inspection (e.g. viruses on propagating material)
- Specific pre-shipment pest control activities to be undertaken by the supply country's contracting party
- The application of a pre-shipment treatment
- Inspection of the export consignment
- Issuance of a phytosanitary certificate which attests to the phytosanitary status of a consignment
- Treatment on arrival in New Zealand

5 General conditions for fresh fruit/vegetables for consumption

Only clean, inert/synthetic material may be used for the protection, packaging and shipping of fresh fruit/vegetables.

A completed phytosanitary certificate issued by the exporting country's NPPO must accompany all consignments of fresh fruit and vegetables exported to New Zealand.

New Zealand MAF will inspect all consignments of fresh fruit/vegetables and their associated packaging to verify that New Zealand's phytosanitary requirements have been met. All consignments shall be practically free of soil and other extraneous matter.

Where it has been determined through pest risk assessment that high impact pests are associated with a particular commodity more specific phytosanitary measures must be met. In most circumstances these phytosanitary measures will need to be met prior to arrival of the commodity in New Zealand.

6 Specific conditions for papaya (Commodity Sub-Class: Fresh Fruit/Vegetables) from Vanuatu

6.1 PRE-SHIPMENT REQUIREMENTS

6.1.1 Inspection of the consignment

New Zealand MAF requires that the Vanuatu NPPO sample and visually inspect the consignment according to official procedures for all the regulated pests specified by New Zealand MAF and ensure that it conforms with New Zealand's current import requirements. A phytosanitary certificate should not be issued if live regulated pest(s) are detected, unless the consignment is treated in order to eliminate these. If pests are found which are not listed in the import health standard, the Vanuatu NPPO must establish their regulatory status. This information is available in MAF's "Biosecurity Organisms Register for Imported Commodities" <http://www.biosecurity.govt.nz/pests-diseases/registers-lists/boric/>

If a pest is not listed in this register, the Vanuatu NPPO must contact MAF (see Section 1) to establish the regulatory status of the pest.

6.1.2 Testing of the consignment

Testing of the consignment prior to export to New Zealand for regulated pests which are not visually detectable (viz. fungi and bacteria) is not generally required for fresh papaya from Vanuatu.

6.1.3 Measures for high impact pests

New Zealand MAF requires additional mandatory pre-export measures (treatment or equivalent) for high impact pests. Two high impact pests are associated with papaya in Vanuatu: a whitefly (*Bemisia tabaci*) and a fruit fly (*Bactrocera trilineola*).

New Zealand MAF currently approves heat treatment in Vanuatu as the mandatory offshore measure for the high impact fruit fly associated with papaya in Vanuatu.

New Zealand MAF requires that appropriate pest control activities for *Bemisia tabaci* are conducted prior to the commodity arriving in New Zealand.

NOTE: "appropriate pest control activities" is a broad term that is inclusive of a range of phytosanitary measures. Examples of these measures are pest free areas, physical removal (such as washing of fruit), chemical treatments etc.

6.1.4 Documentation

Bilateral quarantine arrangement/Workplan: Required for fruit flies.

Papaya may only be imported into New Zealand from Vanuatu under the terms of the Bilateral Quarantine Arrangement between New Zealand MAF and the Vanuatu NPPO.

Phytosanitary certificate: Required.

Import permit/Authorisation to import: Exempt under Gazette Notice: No. AG12, 13 July 1995.

6.1.5 Phytosanitary certification

A completed phytosanitary certificate issued by the Vanuatu NPPO must accompany all papaya consignments exported to New Zealand.

Before a phytosanitary certificate is issued, the Vanuatu NPPO must be satisfied that the following activities required by New Zealand MAF have been undertaken.

The papaya have:

- (i) been visually inspected in accordance with appropriate official procedures and found to be free from any regulated pests

AND

- (ii) undergone appropriate pest control activities that are effective against:

Bemisia tabaci

AND

- (iii) undergone an agreed measure that is effective against associated fruit fly species of economic significance in accordance with Appendix 3 of the Bilateral Quarantine Arrangement between New Zealand MAF and the Vanuatu NPPO.

Note: pest control activities are to comply with relevant health and safety requirements and food standards.

6.1.6 Additional declarations to the phytosanitary certificate

If satisfied that the pre-shipment activities have been undertaken, the Vanuatu NPPO must confirm this by providing the following additional declarations to the phytosanitary certificate:

"The papaya in this consignment:

- have been inspected in accordance with appropriate official procedures and found to be free of any visually detectable regulated pests specified by NZ MAF;

NOTE: This additional declaration is not required if the phytosanitary certificate issued by the Vanuatu NPPO is in accordance with ISPM No. 12 Guidelines for Phytosanitary Certificates.

AND

- have undergone appropriate pest control activities that are effective against *Bemisia tabaci*.

AND

- have been treated in accordance with Appendix 3 of the Bilateral Quarantine Arrangement between NZ MAF and VQIS.

6.2 TRANSIT REQUIREMENTS

The papaya must be packed and shipped in a manner to prevent possible post-inspection/treatment infestation and/or contamination by regulated pests. 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" is required. 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.

6.3 INSPECTION ON ARRIVAL IN NEW ZEALAND

New Zealand MAF will check the accompanying documentation on arrival to confirm that it is correct and reconciles with the actual consignment.

New Zealand MAF requires, with 95% confidence, that not more than 0.5% of the units in a consignment are infested with visually detectable, viable, regulated pests. To achieve this, New Zealand MAF will sample and inspect 600 units with an acceptance level of zero infested units (or equivalent), from the (homogeneous) lot.

6.4 BIOSECURITY/QUARANTINE DIRECTIVE

The consignment may be directed to a New Zealand MAF-approved facility for further treatment if required.

6.5 TESTING FOR REGULATED PESTS

New Zealand MAF may, on the specific request of the Chief Technical Officer, test the consignment for regulated pests.

6.6 ACTIONS UNDERTAKEN ON THE INTERCEPTION/DETECTION OF PESTS/CONTAMINANTS

If viable, regulated pests, extraneous plant material or trash are intercepted/detected with the commodity, or associated packaging, the following actions will be undertaken as appropriate (depending on the pest identified):

- Re-sorting (specific conditions apply) of the consignment
- Reshipment of the consignment
- Destruction of the consignment
- Treatment for those pests for which specific pre-export pest control activities are required
- The suspension of trade on the detection of pests for which a pest free area has been implemented
- The suspension of trade (economically important fruit fly species), until the cause of the non-compliance is investigated, identified and rectified to the satisfaction of New Zealand MAF.

If an organism is intercepted/detected that is not on the pest list (appended to this document), the consignment will be held (or equivalent) until an assessment is undertaken to determine the organism's categorisation (i.e. regulated or non-regulated) and appropriate measures developed and taken if required.

Consignments that are contaminated with extraneous plant material and/or trash in the 600 unit sample will result in the consignment being held until an assessment has been made in comparison with the risk of importing the part(s) of the plant species concerned.

6.7 BIOSECURITY CLEARANCE

If regulated pests are not detected, or are successfully treated following interception/detection biosecurity clearance will be given.

6.8 AUDIT OF OFFSHORE MEASURES

NZ MAF reserves the right to audit all processes that are undertaken offshore, including phytosanitary measures for high impact pests.

6.9 FEEDBACK ON NON-COMPLIANCE

The Vanuatu NPPO will be informed by New Zealand MAF's Chief Technical Officer of the interception (and treatment) of any regulated pests, "unlisted" pests, or non-compliance with measures specified in this import health standard.

7 Contingencies Following Biosecurity Clearance

Should a regulated pest be detected subsequent to biosecurity clearance, New Zealand MAF may implement a management programme (official control programme) in accordance with Part V of the Biosecurity Act 1993 and Part 5 of the Biosecurity Amendment Act 1997.

Appendix 1 Pest List Commodity Sub-class: Fresh Fruit/Vegetables *Carica papaya* from Vanuatu

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent entry	Actions on interception
<i>Achatina fulica</i>	mol	giant African snail	Regulated	1a & 1b	1 &/or 2
<i>Aspidiotus destructor</i>	ins	transparent scale	Regulated	1a & 1b	1 &/or 2
<i>Atherigona orientalis</i>	ins	muscid fly	Regulated	1a & 1b	1 &/or 2
<i>Bactrocera trilineola</i>	ins	fruit fly	Regulated #	3	3
<i>Bemisia tabaci</i> [all strains except B biotype]	ins	sweet potato whitefly	Regulated #	2a or 2b	1 & 2a
<i>Brachylybas variegatus</i>	ins	brown coreid bug	Regulated	1a & 1b	1 &/or 2
<i>Coccus viridis</i>	ins	green scale	Regulated	1a & 1b	1 &/or 2
<i>Dysmicoccus brevipes</i>	ins	pineapple mealybug	Regulated	1a & 1b	1 &/or 2
<i>Eudocima fullonia</i>	ins	fruit-piercing moth	Regulated	1a & 1b	1 &/or 2
<i>Ferrisia virgata</i>	ins	striped mealybug	Regulated	1a & 1b	1 &/or 2
<i>Howardia biclavis</i>	ins	mining scale	Regulated	1a & 1b	1 &/or 2
<i>Icerya seychellarum</i>	ins	Seychelles scale	Regulated	1a & 1b	1 &/or 2
<i>Phellinus noxius</i>	fun	brown root rot	Regulated	1a & 1b	1 &/or 2
<i>Phytophthora palmivora</i>	fun	black rot	Regulated	1a & 1b	1 &/or 2
<i>Planococcus citri</i>	ins	citrus mealybug	Regulated	1a & 1b	1 &/or 2
<i>Pseudaulacaspis pentagona</i>	ins	white peach scale	Regulated	1a & 1b	1 &/or 2
<i>Rhabdoscelus obscurus</i>	ins	New Guinea sugarcane weevil	Regulated	1a & 1b	1 &/or 2
<i>Tetranychus marianae</i>	mit	bean mite	Regulated	1a & 1b	1 &/or 2
<i>Tetranychus neocaledonicus</i>	mit	vegetable mite	Regulated	1a & 1b	1 &/or 2
<i>Wasmannia auropunctata</i>	ins	little fire ant	Regulated	1a & 1b	1 &/or 2
<i>Aculops lycopersici</i>	mit	tomato russet mite	Non regulated	.	NA
<i>Alternaria alternata</i>	fun	black stalk rot	Non regulated	.	NA
<i>Aphis gossypii</i>	ins	melon aphid	Non regulated	.	NA
<i>Aphis spiraecola</i>	ins	green citrus aphid	Non regulated	.	NA
<i>Botryosphaeria rhodina</i> (anamorph <i>Lasioidiplodia theobromae</i>)	fun	gummosis	Non regulated	.	NA
<i>Brevipalpus obovatus</i>	mit	privet mite	Non regulated	.	NA
<i>Cladosporium oxysporum</i>	fun	cladosporium leaf spot	Non regulated	.	NA
<i>Coccus hesperidum</i>	ins	soft brown scale	Non regulated	.	NA
<i>Colletotrichum acutatum</i>	fun	anthracnose	Non regulated	.	NA
<i>Colletotrichum capsici</i>	fun	anthracnose	Non regulated	.	NA
<i>Corynespora cassiicola</i>	fun	leaf spot	Non regulated	.	NA
<i>Erysiphe cichoracearum</i> (anamorph <i>Oidium asteris-punicej</i>)	fun	powdery mildew	Non regulated	.	NA
<i>Gibberella fujikuroi</i> (anamorph <i>Fusarium fujikuroi</i>)	fun	fusarium rot	Non regulated	.	NA

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent entry	Actions on interception
<i>Glomerella cingulata</i> (anamorph <i>Colletotrichum gloeosporioides</i>)	fun	anthracnose	Non regulated	.	NA
<i>Helicoverpa armigera</i>	ins	tomato fruitworm	Non regulated	.	NA
<i>Hemiberlesia lataniae</i>	ins	latania scale	Non regulated	.	NA
<i>Mycosphaerella caricae</i> (anamorph <i>Phoma caricae-papayae</i>)	fun		Non regulated	.	NA
<i>Mycosphaerella tassiana</i> (anamorph <i>Cladosporium herbarum</i>)	fun	black leaf spot	Non regulated	.	NA
<i>Nectria haematococca</i> (anamorph <i>Fusarium solani</i>)	fun	fusarium fruit rot	Non regulated	.	NA
<i>Nezara viridula</i>	ins	green vegetable bug	Non regulated	.	NA
<i>Parasaissetia nigra</i>	ins	nigra scale	Non regulated	.	NA
<i>Periconia byssoides</i>	fun		Non regulated	.	NA
<i>Polyphagotarsonemus latus</i>	mit	broad mite	Non regulated	.	NA
<i>Pseudococcus longispinus</i>	ins	longtailed mealybug	Non regulated	.	NA
<i>Pythium myriotylum</i>	fun	rhizome and root rot	Non regulated	.	NA
<i>Rhizopus stolonifer</i>	fun	rhizopus soft rot	Non regulated	.	NA
<i>Saissetia coffeae</i>	ins	hemispherical scale	Non regulated	.	NA
<i>Spodoptera litura</i>	ins	cluster caterpillar	Non regulated	.	NA
<i>Thrips tabaci</i>	ins	onion thrips	Non regulated	.	NA

Denotes a high impact pest for which additional pre-arrival measures are necessary

Note: It is accepted by New Zealand MAF that the mandatory heat treatment will also contribute to the management of regulated insects other than the target fruit fly species.

Measures to prevent entry & establishment	.	No measures as pest non regulated
	1a	Visual inspection of produce and associated packaging
	1b	Consignment must be free from extraneous material – pests are associated with other plant parts (e.g. leaves, stems, flowers) and/or soil
	2a	Undergone appropriate pest control activities
	2b	Pest free area (based on official detection survey)
	3	Agreed offshore fruit fly treatment and bilateral quarantine agreement required
	4	Approved generic treatment
Actions on interception	NA	No actions as pest is non regulated
	0	No action due to low risk pathway
	1	Removal of extraneous material - pests are associated with other plant parts (e.g. leaves, stems, flowers) and/or soil
	2	Treat, reship or destroy
	2a	Treat, reship or destroy. Suspend pathway
	3	Reship or destroy. Suspend pathway