

**Import Health Standard**  
**Commodity Sub-class: Fresh Fruit/Vegetables**  
**Citrus, (*Citrus* spp) from the Arab Republic of Egypt**

*Citrus aurantifolia* (lime), *C. limon* (lemon), *C. paradisi* (grapefruit),  
*C. sinensis* (orange), *C. reticulata* (mandarin/tangerine), *C. paradisi* x  
*reticulata* (tangelo), *C. maxima* (pomelo)

**ISSUED**

**Issued pursuant to Section 22 of the Biosecurity Act 1993**  
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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, MAF Biosecurity New Zealand on 17 March 2006.

Kevin Corrin  
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 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 to be met to enable biosecurity clearance to be given for fresh citrus (*Citrus* spp) fruit imported into New Zealand from the Arab Republic of Egypt.

## REFERENCES

*Biosecurity Act 1993*

*Requirements for the establishment of pest free areas* 1996. ISPM Publication No. 4, FAO, Rome.

*Requirements for the establishment of pest free places of production and pest free production sites* 1999. ISPM Publication No. 10, FAO, Rome.

*Glossary of phytosanitary terms* 2002. ISPM Publication No. 5, FAO, Rome.

*Risk analysis for quarantine pests including analysis of environmental risks* 2003. ISPM Publication No. 11 (Rev. 1), FAO, Rome.

*New Revised Text of the International Plant Protection Convention*, November 1997. FAO, Rome.

*MAF Plants Biosecurity Pest Risk Assessment Standard* (26 September 2001).

*MAF Plants Biosecurity Standard 152.02: Importation and Clearance of Fresh Fruit and Vegetables into New Zealand* (July 2002).

## DEFINITIONS ABBREVIATIONS AND ACRONYMS

Biosecurity clearance	A clearance under section 26 of the New Zealand Biosecurity Act 1993 for the entry of goods into New Zealand.
Biosecurity New Zealand	Biosecurity New Zealand is the division of the Ministry of Agriculture and Forestry (MAF) that has the lead role in preventing the importation of unwanted pests and diseases, and for controlling, managing or eradicating them should they arrive.
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 article being moved for trade or other purpose [FAO, 1990; ICPM Amendments, April 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) [FAO, 1990; ICPM Amendments, April 2001].
Establishment	Perpetuation, for the foreseeable future, of a pest within an area after entry [FAO, 1990; revised FAO, 1995; IPPC, 1997; formerly established]
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> ”.
Infestation of a consignment	Presence in a commodity of a living pest of the plant or plant product concerned. Infestation includes infection [CEPM, 1997; revised CEPM 1999].
Inspection	Official visual examination of plants, plant products or other regulated articles to determine if pests are present and/or to confirm compliance with phytosanitary regulations [FAO, 1990; revised FAO, 1995; formerly Inspect].
International Plant Protection Convention	International Plant Protection Convention, as deposited with FAO in Rome in 1951 and as subsequently amended [FAO, 1990].
IPPC	Abbreviation for the International Plant Protection Convention.

International Standard for Phytosanitary Measures	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, 1996; revised CEPM, 1999].
Introduction	The entry of a pest resulting in its establishment [FAO, 1990; revised FAO, 1995; IPPC, 1997]
ISPM	Abbreviation for International Standard on Phytosanitary Measures.
Lot	The number of units of a single commodity identifiable by its homogeneity of composition, origin, etc., forming part of a consignment. [FAO, 1990].
MAF	Ministry of Agriculture and Forestry. Acronym for the Ministry of Agriculture and Forestry which is the New Zealand national plant protection organisation.
National Plant Protection Organisation	Official service established by Government to discharge the functions specified by the IPPC. [FAO, 1990; formerly Plant Protection Organization (National)]
NPPO	Abbreviation for National Plant Protection Organisation.
Official	Established, authorized or performed by a National Plant Protection Organization [FAO, 1990].
Pest	Any species, strain or biotype of plant, animal or pathogenic agent injurious to plants or plant products [FAO, 1990; revised FAO, 1995; IPPC, 1997]  Note: For the purpose of this standard “pest” includes an organism sometimes associated with the pathway, which poses a risk to human or animal or plant life or health (SPS Article 2).
Pest free area	An area in which a specific pest does not occur as demonstrated by scientific evidence and in which, where appropriate, this condition is being officially maintained [FAO, 1995].

Pest free production site	A defined portion of a place of production in which a specific pest does not occur as demonstrated by scientific evidence and in which, where appropriate, this condition is being officially maintained for a defined period and that is managed as a separate unit in the same way as a pest free place of production [ISPM Pub. No. 10, 1999]
Phytosanitary certificate	A certificate patterned after the model certificates of the IPPC [FAO 1990].
Phytosanitary certification	Use of phytosanitary procedures leading to the issue of a phytosanitary certificate [FAO, 1990].
Phytosanitary measure	Any legislation, regulation or official procedure having the purpose to prevent the introduction and/or spread of pests, or to limit the economic impact of regulated non-quarantine pests [FAO, 1995; revised IPPC, 1997; ISC, 2001]
Quarantine pest	A pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and (is) being officially controlled [FAO, 1990; revised FAO, 1995; IPPC 1997].
Regulated pest	A quarantine pest or a regulated non-quarantine pest [IPPC, 1997] A pest of potential economic importance to New Zealand and not yet present there, or present but either not widely distributed and being officially controlled, or a regulated non-quarantine pest, or having the potential to vector another regulated pest into New Zealand.
Treatment	Officially authorized procedure for the killing or removal of pests or rendering pests infertile or for devitalization [FAO, 1990, revised FAO, 1995; ISPM No. 15, 2002; ISPM No. 18, 2003].
Viable	Capable of maintaining life, or able to live in a particular environment and able to procreate.

## **OUTLINE OF REQUIREMENTS**

This import health standard outlines the requirements that must be met prior to shipment, in-transit and on arrival in New Zealand for fresh citrus fruit imported from the Arab Republic of Egypt.

This standard is replicated at the following Internet address:

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

## **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 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 – CITRUS (*Citrus* spp) FROM THE ARAB REPUBLIC OF EGYPT.**

## **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](mailto: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](mailto: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 establishment of regulated pests in 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 and 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 citrus (Commodity Sub-Class: Fresh Fruit/Vegetables) from the Arab Republic of Egypt.**

### **6.1 PRE-SHIPMENT REQUIREMENTS**

#### **6.1.1 Inspection of the consignment**

New Zealand MAF requires that the Arab Republic of Egypt 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 Arab Republic of Egypt 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 Arab Republic of Egypt 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 citrus from the Arab Republic of Egypt.

### 6.1.3 Phytosanitary measures for high impact pests

The strength of phytosanitary measures will generally be greater for high impact pests than for other regulated pests, reflecting the greater risks associated with these pests. In most circumstances phytosanitary measures for high impact pests will need to be met prior to arrival of the commodity in New Zealand, and phytosanitary certification will need to attest to this accordingly.

New Zealand MAF and the Arab Republic of Egypt NPPO have agreed to the use of a cold disinfestation treatment as a phytosanitary measure for the high impact fruit fly species associated with citrus in Egypt (*Bactrocera zonata* and *Ceratitis capitata*). Refer to Appendix 2 for details of this agreed phytosanitary measure.

### 6.1.4 Documentation

**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 Arab Republic of Egypt NPPO must accompany all citrus consignments exported to New Zealand.

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

The citrus has:

- (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:

*Ceratitis capitata* (refer to Appendix 2)

*Bactrocera zonata* (refer to Appendix 2)

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 Arab Republic of Egypt NPPO must confirm this by providing the following additional declarations to the phytosanitary certificate:

- (i) This is to certify that the citrus described herein have been inspected according to appropriate official procedures and are considered to be free from the quarantine pests specified by New Zealand MAF and to conform with the current phytosanitary requirements of New Zealand MAF, including those for regulated non-quarantine pests.;

NOTE: This additional declaration is not required if the phytosanitary certificate issued by the Arab Republic of Egypt NPPO is in accordance with the model phytosanitary certificate annexed to the revised (1997) text of the FAO IPPC.

AND

- (ii) This is to certify that the citrus in this consignment has undergone appropriate pest control activities that are effective against those regulated high impact pests specified by NZ MAF.

NOTE: full details of the fruit fly treatment must be included in the "Disinfestation and/or Disinfection Treatment" area of the phytosanitary certificate. Details of the treatment duration and temperature must be recorded.

## 6.2 TRANSIT REQUIREMENTS

The citrus 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, 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 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 where an efficacious treatment is available
- The suspension of trade on the detection of high impact pests for which specific pre-arrival phytosanitary measures are required. Suspension of trade will continue until the cause of the non-compliance has been identified and corrective actions have been implemented 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 regulatory status and appropriate measures developed 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 Arab Republic of Egypt 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 *Citrus* spp from the Arab Republic of Egypt

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent introduction	Actions on interception
<i>Chaetothyrium citri</i>	fun	citrus sooty mould	Regulated	1a & 1b	1 &/or 2
<i>Mucor racemosus</i>	fun	storage rot	Regulated	1a & 1b	1 &/or 2
<i>Aleurothrix floccosus</i>	ins	woolly whitefly	Regulated	1a & 1b	1 &/or 2
<i>Aonidiella orientalis</i>	ins	oriental yellow scale	Regulated	1a & 1b	1 &/or 2
<i>Aphis gossypii</i> [vector]	ins	cotton aphid	Regulated	1a & 1b	1 &/or 2
<i>Aphis spiraeicola</i> [vector]	ins	spirea aphid	Regulated	1a & 1b	1 &/or 2
<i>Apomyelois ceratoniae</i>	ins	carob moth	Regulated	1a & 1b	1 &/or 2
<i>Araecerus fasciculatus</i>	ins	coffee bean weevil	Regulated	1a & 1b	1 &/or 2
<i>Aspidiotus destructor</i>	ins	coconut scale	Regulated	1a & 1b	1 &/or 2
<i>Atherigona orientalis</i>	ins	muscid fly	Regulated	1a & 1b	1 &/or 2
<i>Aulacaspis tubercularis</i>	ins	common mango scale	Regulated	1a & 1b	1 &/or 2
<i>Bactrocera zonata</i>	ins	peach fruit fly	Regulated #	3	3
<i>Ceratitis capitata</i>	ins	Mediterranean fruit fly	Regulated #	3	3
<i>Ceroplastes floridensis</i>	ins	Florida wax scale	Regulated	1a & 1b	1 &/or 2
<i>Chrysomphalus aonidium</i>	ins	Florida red scale	Regulated	1a & 1b	1 &/or 2
<i>Chrysomphalus dictyospermi</i>	ins	dictyospermum scale	Regulated	1a & 1b	1 &/or 2
<i>Cryptoblabes gnidiella</i>	ins	Christmas berry webworm	Regulated	1a & 1b	1 &/or 2
<i>Euzopherodes vapidella</i>	ins	citrus sub moth	Regulated	1a & 1b	1 &/or 2
<i>Ferrisia virgata</i>	ins	striped mealybug	Regulated	1a & 1b	1 &/or 2
<i>Icerya aegyptiaca</i>	ins	Egyptian fluted scale	Regulated	1a & 1b	1 &/or 2
<i>Icerya seychellarum</i>	ins	Seychelles scale	Regulated	1a & 1b	1 &/or 2
<i>Lepidosaphes gloverii</i>	ins	glover scale	Regulated	1a & 1b	1 &/or 2
<i>Maconellicoccus hirsutus</i>	ins	pink hibiscus mealybug	Regulated	1a & 1b	1 &/or 2
<i>Nipaecoccus viridis</i>	ins	nipa mealybug	Regulated	1a & 1b	1 &/or 2
<i>Parabemisia myricae</i>	ins	Japanese bayberry whitefly	Regulated	1a & 1b	1 &/or 2
<i>Parlatoria pergandii</i>	ins	chaff scale	Regulated	1a & 1b	1 &/or 2
<i>Parlatoria ziziphi</i>	ins	black parlatoria scale	Regulated	1a & 1b	1 &/or 2
<i>Phyllocnistis citrella</i>	ins	citrus leafminer	Regulated	1a & 1b	1 &/or 2
<i>Planococcus citri</i>	ins	citrus mealybug	Regulated	1a & 1b	1 &/or 2
<i>Prays citri</i>	ins	citrus flower moth	Regulated	1a & 1b	1 &/or 2
<i>Pyroderces rileyi</i>	ins	pink scavenger caterpillar	Regulated	1a & 1b	1 &/or 2
<i>Scirtothrips aurantii</i>	ins	citrus thrips	Regulated	1a & 1b	1 &/or 2
<i>Stathmopoda auriferella</i>	ins	apple heliodinid	Regulated	1a & 1b	1 &/or 2
<i>Brevipalpus californicus</i> [vector]	mit	bunch mite	Regulated	1a & 1b	1 &/or 2
<i>Brevipalpus obovatus</i> [vector]	mit	privet mite	Regulated	1a & 1b	1 &/or 2
<i>Brevipalpus phoenicis</i> [vector]	mit	passionvine mite	Regulated	1a & 1b	1 &/or 2
<i>Eutetranychus orientalis</i>	mit	pear leaf blister mite	Regulated	1a & 1b	1 &/or 2

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent introduction	Actions on interception
<i>Phyllocoptruta citri</i>	mit	eriophyid rust mite	Regulated	1a & 1b	1 &/or 2
<i>Tuckerella nilotica</i>	mit	peacock mite	Regulated	1a & 1b	1 &/or 2
<i>Pseudomonas syringae</i> pv. <i>Syringae</i>	bac	bacterial soft rot	Non regulated	.	NA
<i>Alternaria alternata</i>	fun	black stalk rot	Non regulated	.	NA
<i>Alternaria citri</i>	fun	alternaria rot	Non regulated	.	NA
<i>Ascochyta pisi</i>	fun	ascochyta leaf and pod spot	Non regulated	.	NA
<i>Aspergillus alutaceus</i>	fun	aspergillus rot	Non regulated	.	NA
<i>Aspergillus flavus</i>	fun	aspergillus storage rot	Non regulated	.	NA
<i>Aspergillus niger</i>	fun	black mould	Non regulated	.	NA
<i>Athelia rolfsii</i> (anamorph <i>Sclerotium rolfsii</i> )	fun	Regulatedolf's disease	Non regulated	.	NA
<i>Botryosphaeria rhodina</i> (anamorph <i>Lasiodiplodia theobromae</i> )	fun	gummosis	Non regulated	.	NA
<i>Capnodium citricola</i>	fun	fumagina	Non regulated	.	NA
<i>Debaryomyces hansenii</i>	fun	-	Non regulated	.	NA
<i>Diaporthe citri</i> (anamorph <i>Phomopsis citri</i> )	fun	melanose	Non regulated	.	NA
<i>Fusarium oxysporum</i>	fun	leaf spot	Non regulated	.	NA
<i>Galactomyces citri-aurantii</i> (anamorph <i>Geotrichum citri-aurantii</i> )	fun	sour rot	Non regulated	.	NA
<i>Gibberella fujikuroi</i> (anamorph <i>Fusarium fujikuroi</i> )	fun	fusarium rot	Non regulated	.	NA
<i>Glomerella cingulata</i> (anamorph <i>Colletotrichum gloeosporioides</i> )	fun	anthracnose	Non regulated	.	NA
<i>Guignardia mangiferae</i>	fun	latent skin infection	Non regulated	.	NA
<i>Macrophomina phaseolina</i>	fun	ashy stem blight	Non regulated	.	NA
<i>Nectria haematococca</i> (anamorph <i>Fusarium solani</i> )	fun	fusarium fruit rot	Non regulated	.	NA
<i>Penicillium digitatum</i>	fun	green mould	Non regulated	.	NA
<i>Penicillium italicum</i>	fun	blue mould	Non regulated	.	NA
<i>Phytophthora cactorum</i>	fun	phytophthora crown and root rot	Non regulated	.	NA
<i>Phytophthora citrophthora</i>	fun	citrus brown rot	Non regulated	.	NA
<i>Phytophthora nicotianae</i>	fun	buckeye rot	Non regulated	.	NA
<i>Pythium debaryanum</i>	fun	leak	Non regulated	.	NA
<i>Rhizopus stolonifer</i>	fun	rhizopus soft rot	Non regulated	.	NA
<i>Sclerotinia sclerotiorum</i>	fun	cottony rot	Non regulated	.	NA
<i>Trichoderma viride</i>	fun	trichoderma rot	Non regulated	.	NA
<i>Aonidiella aurantii</i>	ins	California red scale	Non regulated	.	NA
<i>Aspidiotus nerii</i>	ins	oleander scale	Non regulated	.	NA
<i>Asynonychus cervinus</i>	ins	Fuller's rose weevil	Non regulated	.	NA
<i>Carpophilus hemipterus</i>	ins	dried fruit beetle	Non regulated	.	NA
<i>Carpophilus mutilatus</i>	ins	confused sap beetle	Non regulated	.	NA
<i>Coccus hesperidum</i>	ins	brown soft scale	Non regulated	.	NA
<i>Drosophila melanogaster</i>	ins	vinegar fly	Non regulated	.	NA

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent introduction	Actions on interception
<i>Helicoverpa armigera</i>	ins	tomato fruitworm	Non regulated	.	NA
<i>Heliothrips haemorrhoidalis</i>	ins	greenhouse thrips	Non regulated	.	NA
<i>Hemiberlesia lataniae</i>	ins	latania scale	Non regulated	.	NA
<i>Icerya purchasi</i>	ins	cottony cushion scale	Non regulated	.	NA
<i>Lepidosaphes beckii</i>	ins	purple scale	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>Pseudococcus longispinus</i>	ins	longtailed mealybug	Non regulated	.	NA
<i>Saissetia coffeae</i>	ins	hemispherical scale	Non regulated	.	NA
<i>Saissetia oleae</i>	ins	black olive scale	Non regulated	.	NA
<i>Thrips tabaci</i>	ins	onion thrips	Non regulated	.	NA
<i>Trialeurodes vaporariorum</i>	ins	greenhouse whitefly	Non regulated	.	NA
<i>Aceria sheldoni</i>	mit	citrus bud mite	Non regulated	.	NA
<i>Orthotydeus californicus</i>	mit	-	Non regulated	.	NA
<i>Phyllocoptruta oleivora</i>	mit	citrus rust mite	Non regulated	.	NA
<i>Tetranychus cinnabarinus</i>	mit	carmine spider mite	Non regulated	.	NA
<i>Tetranychus urticae</i>	mit	Twospotted spider mite	Non regulated	.	NA
<i>Cantareus aspersus</i>	mol	common garden snail	Non regulated	.	NA

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

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
	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 trash – 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

**Note: for the purpose of this import health standard, *Citrus* spp refers to *C. aurantifolia*, *C. limon*, *C. paradisi*, *C. sinensis*, *C. reticulata*, *C. paradisi x reticulata*, and *C. maxim* only.**

## Appendix 2      Pre-arrival phytosanitary measures for high impact fruit flies associated with citrus fruit in the Arab Republic of Egypt

### 1. Scope

New Zealand, as a country free from harmful species of fruit fly (Diptera: Tephritidae), requires exporting countries to implement official phytosanitary measures for those species of fruit flies identified as potentially having a major effect on the production (including access to overseas markets) of plants and plant products and/or the environment, should they be introduced to New Zealand.

*Citrus* spp are a host of the high impact fruit flies *Bactrocera zonata* and *Ceratitus capitata* in the Arab Republic of Egypt, and accordingly, appropriate phytosanitary measures must be implemented to mitigate the risk of these species being introduced into New Zealand in association with this commodity.

New Zealand MAF and the Arab Republic of Egypt NPPO have agreed that a cold disinfestation treatment will be used as a suitable pre-arrival phytosanitary measure for this purpose.

### 2. Treatment specification

Prior to arrival in New Zealand, the core temperature of the fruit must be held continuously at one of the following temperatures/time combinations:

Fruit pulp temperature °C	Exposure period (consecutive days)
0.00 °C or below	10
0.55 °C or below	11
1.11 °C or below	12
1.66 °C or below	14
2.22 °C or below	16

NOTE: full details of the fruit fly treatment must be included in the “Disinfestation and/or Disinfection Treatment” area of the phytosanitary certificate. Details of the treatment duration and temperature must be recorded.

### **3. Treatment monitoring**

All treatments shall be monitored in accordance with agreed procedures. All cartons of citrus fruit shall be traceable to a unique treatment batch.

### **4. Product security**

Following treatment, the security of all treatment batches must be maintained in accordance with agreed procedures.