

**Import Health Standard**  
**Commodity Sub-class: Fresh Fruit/Vegetables**  
**Mango, *Mangifera indica***  
**from the Cook Islands**

**Pursuant to Section 22 of the Biosecurity Act 1993**  
**Date approved: 12 December 1997**

**1 NEW ZEALAND NATIONAL PLANT PROTECTION ORGANISATION**

The New Zealand national plant protection organisation is the Ministry of Agriculture and as such, all communication should be addressed to:

Chief Plants Officer  
Ministry of Agriculture  
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**2 GENERAL CONDITIONS FOR ALL PLANT PRODUCTS**

All plants and plant products are **PROHIBITED** entry into New Zealand, unless an import health standard has been issued in accordance with Section 22 of the Biosecurity Act 1993. Should prohibited plants or plant products be intercepted by the New Zealand Ministry of Agriculture, the importer will be offered the option of reshipment or destruction of the consignment.

The national plant protection organisation of the exporting country is requested to inform the New Zealand Ministry of Agriculture of any change in its address.

The national plant protection organisation of the exporting country is required to inform the New Zealand Ministry of Agriculture of any newly recorded organisms which may infest/infect any commodity approved for export to New Zealand.

### **3 EXPLANATION OF PEST CATEGORIES**

The New Zealand Ministry of Agriculture has categorised organisms associated with plants and plant products into regulated and non-regulated organisms as described below. Organisms (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.

#### **3.1 REGULATED ORGANISMS**

Regulated organisms are those organisms for which phytosanitary actions would be undertaken if they were intercepted/detected. Regulated organisms are sub-divided into the following groups:

##### **3.1.1 Quarantine: Risk group 1 pests**

Risk group 1 pests are those quarantine pests (FAO Glossary of Phytosanitary Terms, 1996) which on introduction into New Zealand could cause unacceptable economic impacts on the production of a commodity/commodities and/or the environment.

##### **3.1.2 Quarantine: Risk group 2 pests**

Risk group 2 pests are those quarantine pests which on introduction into New Zealand could cause a major disruption to market access (some importing countries require specific pre-export phytosanitary treatments) and/or significant economic impacts on the production of a particular commodity/commodities and/or the environment.

##### **3.1.3 Quarantine: Risk group 3 pests**

Risk group 3 pests (eg. economically significant species of fruit flies) are those quarantine pests which on entry into New Zealand would cause a major disruption to market access for a wide range of New Zealand commodities and/or have significant economic impacts on their production and/or the environment (some importing countries prohibit the entry of the host commodity). An official surveillance system is required for such pests in New Zealand.

##### **3.1.4 Regulated non-quarantine pests**

A regulated non-quarantine pest (denoted by "reg." on the pest list) is a pest whose presence in a consignment of plants for planting, affects the intended use of those plants with an economically unacceptable impact and is therefore regulated within the territory of the importing contracting party (Revised IPPC definition, Rome 1997). These pests would be under official control by the use of a Government operated or audited certification scheme.

##### **3.1.5 Regulated non plant pests/unwanted organisms**

Regulated non plant pests/unwanted organisms (including parasites and predators) are those organisms which, although not pests of plants or plant products, may be associated with plants or plant products in international trade, and may have an affect on human or animal health (eg. black widow spider) and thus fall under the jurisdiction of other New Zealand government departments. The categorisation of these organisms and their associated import restrictions will be applied in accordance with the requirements of the relevant departments.

### **3.1.6 Vectors of associated quarantine pests**

In the context of this import health standard, vectors are those organisms which are able to transmit quarantine pests into New Zealand. To prevent the transmission of vectored quarantine organisms to susceptible commodities in New Zealand, it is necessary to prevent the entry of their vectors. Vectors (denoted by "vect." on the pest list) will be categorised as risk group 1 even if they are present in New Zealand, unless they are risk group 2 pests in their own right. If the vectored organism is not present in the exporting country then the associated vector(s), if present in New Zealand, will be categorised as a non-regulated non-quarantine pest(s).

### **3.1.7 Vectored organisms**

Vectored organisms (denoted by "VO" on the pest list) are those quarantine pests, that are able to enter New Zealand via a vector associated with the imported commodity.

### **3.1.8 Strains of pests**

Where there is documented evidence that a pest associated with the imported commodity has a different host range, different pesticide resistance, vectors a different range of organisms, or is more virulent than that of the same species present in New Zealand, then the different strain (denoted by "strain" on the pest list) of that pest will be categorised accordingly as a risk group 1 or 2 quarantine pest.

### **3.1.9 Unidentifiable organisms**

Should identification of an organism not be possible within the required time frame, the organism will be categorised as a quarantine pest (either risk groups 1, 2, or 3) until such time as shown otherwise.

### **3.1.10 Unlisted organisms**

Should an organism be intercepted that is not included on the pest list for that commodity, it will be categorised into the appropriate risk group and action taken accordingly.

## **3.2 NON-REGULATED ORGANISMS**

### **3.2.1 Non-regulated non-quarantine pests**

Non-regulated non-quarantine pests are either already present in New Zealand and are not under official control or, have no hosts present in New Zealand on which they could become established.

### **3.2.2 Non-regulated non plant pests/organisms**

Non-regulated non plant pests/organisms are not pests of plants and are not of concern to the Ministry of Agriculture or any other New Zealand government department.

### **3.3 CONTAMINANTS (INCLUDING SOIL)**

Consignments contaminated with soil, or other potential carriers of quarantine pests (eg. leaf litter) will not be permitted entry if the level of contamination is above the acceptable tolerance level.

## **4 APPLICATION OF PHYTOSANITARY MEASURES**

A number of different phytosanitary measures may be applied to pests in each risk group, depending on the commodity and the type of pest. These measures include:

### **4.1 QUARANTINE: RISK GROUP 1 PESTS**

Phytosanitary measures required for risk group 1 pests may include:

- inspection and phytosanitary certification of the consignment according to appropriate procedures by the national plant protection organisation of the exporting country,
- testing prior to export for quarantine pests which cannot be readily detected by inspection (eg. viruses on propagating material from accredited facilities), and verified by an additional declaration,
- inspection/testing of the consignment by the New Zealand Ministry of Agriculture prior to biosecurity clearance, to ensure the specified pest tolerance has not been exceeded.

## **4.2 QUARANTINE: RISK GROUP 2 PESTS**

Phyosanitary measures required for risk group 2 pests may include all the requirements for risk group 1 pests and may also require pre-export pest control activities to be undertaken by the contracting party, and confirmed by additional declarations to the phytosanitary certificate.

## **4.3 QUARANTINE: RISK GROUP 3 PESTS**

Phyosanitary measures applied to risk group 3 pests may include all the requirements for risk group 1 pests plus:

- the application of a pre-export treatment which has been developed in accordance with an approved New Zealand Ministry of Agriculture standard,
- an official bilateral quarantine arrangement between the New Zealand Ministry of Agriculture and the Cook Islands national plant protection organisation which includes descriptions of each approved treatment system(s),
- specific additional declarations on the phytosanitary certificate.

## **4.4 REGULATED NON-QUARANTINE PESTS**

Phyosanitary measures applied to regulated non-quarantine pests will generally be the same as for risk group 1 pests, or according to the contingencies implemented for that pest if detected in New Zealand.

## **4.5 NON-REGULATED NON-QUARANTINE PESTS**

No phytosanitary measures are applied to non-regulated non-quarantine pests.

# **5 GENERAL CONDITIONS FOR FRESH FRUIT/VEGETABLES**

Commodity sub-class: fresh fruit/vegetables includes fresh fruit and vegetables for consumption.

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

All host material (fruit/vegetables) of fruit fly species (Diptera: Tephritidae) of economic significance shall only be imported under the terms of a bilateral quarantine arrangement (e.g. agreement, workplan) between the New Zealand Ministry of Agriculture's Chief Plants Officer and the head of the supply country's national plant protection organisation.

## **6 SPECIFIC CONDITIONS FOR MANGO FROM THE COOK ISLANDS**

This import health standard covers the requirements for the entry of mangos, commodity sub-class: fresh fruit/vegetables from the Cook Islands only.

### **6.1 PRE-EXPORT REQUIREMENTS**

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

The New Zealand Ministry of Agriculture requires that the Cook Islands national plant protection organisation sample and inspect the consignment according to official procedures for all visually detectable quarantine pests (as specified by the New Zealand Ministry of Agriculture), with a 95% confidence level, that not more than 0.5% of the units in the consignment are infested (this equates to an acceptance level of zero units infested by quarantine pests in a sample size of 600 units).

#### **6.1.2 Testing of the consignment**

Testing of the consignment prior to export to New Zealand for quarantine pathogens which are not visually detectable is not generally required for fresh mangos from the Cook Islands.

#### **6.1.3 Documentation**

**Bilateral quarantine arrangement:** Required

Mangos, commodity sub-class: fresh fruit/vegetables, may only be imported into New Zealand from the Cook Islands under the terms of the bilateral quarantine arrangement.

**Phytosanitary certificate:** Required.

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

#### **6.1.4 Phytosanitary certification**

A completed phytosanitary certificate issued by the Cook Islands national plant protection organisation must accompany all mangos, commodity sub-class: fresh fruit/vegetables exported to New Zealand.

Before an export phytosanitary certificate is to be issued, the Cook Islands national plant protection organisation must be satisfied that the following activities [or agreed equivalent activities] required by the New Zealand Ministry of Agriculture have been undertaken.

The mangos have:

- been inspected in accordance with appropriate official procedures and found to be free of visually detectable quarantine pests specified by the New Zealand Ministry of Agriculture.

AND

- undergone an agreed treatment that is effective against fruit flies.

### **6.1.5 Additional declarations to the phytosanitary certificate**

If satisfied that the pre-export activities have been undertaken, the Cook Islands national plant protection organisation must confirm this by providing the following additional declarations to the phytosanitary certificate:

"The mangos in this consignment have:

- been inspected in accordance with appropriate official procedures and found to be free of any visually detectable quarantine pests specified by the New Zealand Ministry of Agriculture.

AND

- treated in accordance with Appendix 2 of the Arrangement between the New Zealand Ministry of Agriculture and the Cook Islands national plant protection organisation concerning the access of host material of fruit fly species of economic significance into New Zealand from the Cook Islands."

## **6.2 TRANSIT REQUIREMENTS**

The mangos must be packed and shipped in a manner to prevent contamination by quarantine pests.

The package should not be opened in transit. However, where a consignment is either stored, split up 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 it is kept in the original shipping container, a "Re-export Certificate" is not required.

## **6.3 INSPECTION ON ARRIVAL**

The New Zealand Ministry of Agriculture will check the accompanying documentation on arrival

to confirm that the documentation reconciles with the actual consignment.

The New Zealand Ministry of Agriculture requires, with 95% confidence, that not more than 0.5% of the units (for mango, a unit is one fruit) in a consignment are infested with visually detectable quarantine pests. To achieve this, the New Zealand Ministry of Agriculture 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 commodity may be directed to a facility for further treatment if required.

#### **6.5 TESTING FOR QUARANTINE PESTS**

The New Zealand Ministry of Agriculture may, on the specific request of the Chief Plants Officer, test mangos (commodity subclass: fresh fruit/vegetables) from the Cook Islands for quarantine pests.

#### **6.6 ACTIONS UNDERTAKEN ON THE INTERCEPTION/DETECTION OF ORGANISMS/CONTAMINANTS**

If quarantine pests are intercepted/detected on the commodity, or associated packaging, the following actions will be undertaken as appropriate:

##### **6.6.1 Quarantine: Risk group 1 pests**

If a risk group 1 pest is intercepted, the importer will be given the option of:-

- treatment (where possible) of the consignment at the importer's risk,
- re-sorting (specific conditions apply) of the consignment,
- reshipment of the consignment,
- destruction of the consignment.

##### **6.6.2 Quarantine: Risk group 2 pests**

If a risk group 2 pest is intercepted, the importer will be given the option of:-

- treatment (where possible) at the discretion of the Chief Plants Officer and immediate feedback to the national plant protection organisation of the exporting country with a request for corrective action,
- reshipment of the consignment,
- destruction of the consignment.

### **6.6.3 Quarantine: Risk group 3 pests**

Actions for the interception of risk group 3 pests will include:-

- reshipment of the consignment OR destruction of the consignment,

AND

- the suspension of trade, until the cause of the non-compliance is investigated, identified and rectified. The appropriate actions may be audited by the New Zealand Ministry of Agriculture. Once the requirements of the New Zealand Ministry of Agriculture have been met to the satisfaction of the Chief Plants Officer, and supporting evidence is provided and verified by the Cook Islands national plant protection organisation, the trade suspension will be lifted.

### **6.6.4 Regulated non-quarantine pests**

Actions for the interception/detection of regulated non-quarantine pests will be in accordance with the contingencies implemented for that pest if detected in New Zealand.

### **6.6.5 Regulated non plant pests/unwanted organisms**

Actions for the interception/detection of regulated non plant pests/unwanted organisms will be in accordance with the actions required by the relevant government department.

### **6.6.6 Non-regulated non-quarantine pests**

No action is undertaken on the interception of non-regulated non-quarantine pests.

### **6.6.7 Non-regulated non plant pests/organisms**

No action is undertaken on the interception of non-regulated non plant pests/organisms.

### **6.6.8 Contaminants**

Lots with more than 25 grams of soil per 600 unit sample shall be treated, reshipped or destroyed.

Interception of extraneous plant material (e.g. leaves, twigs) in the 600 unit sample will result in the lot 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 quarantine pests are not detected, or are successfully treated following interception/detection biosecurity clearance will be given.

## **6.8 FEEDBACK ON NON-COMPLIANCE**

The Cook Islands national plant protection organisation will be informed by the New Zealand Ministry of Agriculture's Chief Plants Officer of the interception (and treatment) of any quarantine pests and/or "unlisted" organisms, or non-compliance with other phytosanitary requirements.

## **7 CONTINGENCIES FOLLOWING BIOSECURITY CLEARANCE**

Should a quarantine pest be detected subsequent to biosecurity clearance, the New Zealand Ministry of Agriculture may implement a management programme (official control programme) in accordance with Part V of the Biosecurity Act 1993.

## Appendix

### Pest List Commodity Sub-class: Fresh Fruit/Vegetables Mango, *Mangifera indica* from the Cook Islands

#### REGULATED PESTS (actionable)

##### Quarantine: Risk group 3 pests

##### Insect

##### Diptera

##### Tephritidae

<i>Bactrocera melanotus</i>	fruit fly
<i>Bactrocera xanthodes</i>	fruit fly

##### Quarantine: Risk group 2 pests

None

##### Quarantine: Risk group 1 pests

##### Insect

##### Homoptera

##### Coccidae

<i>Ceroplastes rubens</i>	pink wax scale
<i>Coccus viridis</i>	green scale
<i>Eucalymnatus tessellatus</i>	tessellated scale
<i>Kilifia acuminata</i>	acuminate scale

##### Margarodidae

<i>Icerya seychellarum</i>	seychelles fluted scale
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##### Pseudococcidae

<i>Ferrisia virgata</i>	striped mealybug
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##### Lepidoptera

##### Noctuidae

<i>Eudocima fullonia</i>	fruitpiercing moth
<i>Penicillaria jocosatrix</i>	mango tipborer

##### Pyralidae

<i>Cryptoblabes gnidiella</i>	Christmas berry webworm
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**Tortricidae**

*Dudua aprobola*

leaf curling moth

**Nematode**

**Tylenchida**

**Hoplolaimidae**

*Rotylenchus* sp. cf. *variabilis*

**Fungus**

**Ascomycota**

**Xylariales**

**Xylariaceae**

*Daldinia concentrica*

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**Mitosporic Fungi (Coelomycetes)**

**Unknown Coelomycetes**

**Unknown Coelomycetes**

*Colletotrichum* sp.

**Mitosporic Fungi (Hyphomycetes)**

**Unknown Hyphomycetes**

**Unknown Hyphomycetes**

*Stigmina mangiferae*

leaf spot

**Regulated non-quarantine pests**

None

**Regulated non plant pests/unwanted organisms**

None

**NON-REGULATED PESTS (non-actionable)**

**Non-regulated non-quarantine pests**

**Insect**

**Homoptera**

**Pseudococcidae**

*Planococcus citri*

citrus mealybug

*Pseudococcus longispinus*

long tailed mealybug

**Mite**

**Tarsonemidae**

*Polyphagotarsonemus latus*

yellow tea mite

**Fungus**

**Ascomycota**

**Phyllachorales**

**Phyllachoraceae**

*Glomerella cingulata* (anamorph

fruit rot, anthracnose

*Colletotrichum gloeosporioides*

**Basidiomycota: Basidiomycetes**

**Schizophyllales**

**Schizophyllaceae**

*Schizophyllum commune*

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**Mitosporic Fungi (Coelomycetes)**

**Unknown Coelomycetes**

**Unknown Coelomycetes**

*Colletotrichum acutatum*

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**Non-regulated non plant pests/organisms**

None