

Import Health Standard
Commodity Sub-class: Fresh Fruit/Vegetables
Avocado, *Persea americana*
From Australia

Issued pursuant to Section 22 of the Biosecurity Act 1993
Date Issued: 3 June 1998

1 NEW ZEALAND NATIONAL PLANT PROTECTION ORGANISATION

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

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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 and Forestry, 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 and Forestry 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 and Forestry 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 and Forestry has categorised organisms associated with plants and plant products into regulated and non-regulated organisms as specified 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 regulated 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 regulated 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 regulated 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 effects 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 regulated 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 regulated 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 regulated 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 and Forestry or any other New Zealand government department.

3.3 CONTAMINANTS (INCLUDING SOIL)

Consignments contaminated with soil, or other potential carriers of regulated 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 regulated pests which cannot be readily detected by inspection (eg. viruses on propagating material from accredited facilities), and verified by an additional declaration, to that given on the phytosanitary certificate,
- inspection/testing of the consignment by the New Zealand Ministry of Agriculture and Forestry prior to biosecurity clearance, to ensure the specified pest tolerance has not been exceeded.

4.2 QUARANTINE: RISK GROUP 2 PESTS

Phytosanitary 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

Phytosanitary 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 and Forestry standard,
- an official bilateral quarantine arrangement between the New Zealand Ministry of Agriculture and Forestry and Australia 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

Phytosanitary 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 and Forestry's Chief Plants Officer and the head of the supply country's national plant protection organisation.

6 SPECIFIC CONDITIONS FOR AVOCADOS FROM AUSTRALIA

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

6.1 PRE-EXPORT REQUIREMENTS

6.1.1 Inspection of the consignment

The New Zealand Ministry of Agriculture and Forestry requires that the Australia national plant protection organisation sample and inspect the consignment according to official procedures for all visually detectable regulated pests (as specified by the New Zealand Ministry of Agriculture and Forestry), 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 avocados from Australia.

6.1.3 Documentation

Bilateral quarantine arrangement: Required

Avocados, commodity sub-class: fresh fruit/vegetables, may only be imported into New Zealand from Australia 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 Australia national plant protection organisation must accompany all avocados, commodity sub-class: fresh fruit/vegetables exported to New Zealand.

Before an export phytosanitary certificate is to be issued, the Australia national plant protection organisation must be satisfied that the following activities required by the New Zealand Ministry of Agriculture and Forestry have been undertaken.

The avocados 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 Forestry.

AND

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

AND

- been sourced from growers and blocks registered with an official tree certification scheme to ensure freedom from:

avocado sun blotch viroid

AND

- undergone appropriate pest control activities that are effective against:

Pseudocercospora purpurea

OR

been sourced from an area free (verified by an official detection survey) from the following:

Pseudocercospora purpurea

6.1.5 Additional declarations to the phytosanitary certificate

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

"The avocados 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 Forestry.

AND

- treated in accordance with Appendix 5 of the Arrangement between the New Zealand

Ministry of Agriculture and the Australia national plant protection organisation concerning the access of host material of fruit fly species of economic significance into New Zealand from Australia.

AND

- undergone appropriate pest control activities that are effective against:

Pseudocercospora purpurea

OR

been sourced from an area free (verified by an official detection survey) from the following:

Pseudocercospora purpurea."

6.2 TRANSIT REQUIREMENTS

The avocados 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 and Forestry will check the accompanying documentation on arrival to confirm that it reconciles with the actual consignment.

The New Zealand Ministry of Agriculture and Forestry requires, with 95% confidence, that not more than 0.5% of the units (for avocados, a unit is one fruit) in a consignment are infested with visually detectable quarantine pests. To achieve this, the New Zealand Ministry of Agriculture and Forestry 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 REGULATED PESTS

The New Zealand Ministry of Agriculture and Forestry may, on the specific request of the Chief Plants Officer, test avocados (commodity subclass: fresh fruit/vegetables) from Australia 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,
- 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 and Forestry. Once the requirements of the New Zealand Ministry of Agriculture and Forestry have been met to the satisfaction of the Chief Plants Officer, and supporting evidence is provided and verified by the Australia 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 Australia national plant protection organisation will be informed by the New Zealand Ministry of Agriculture and Forestry'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 and Forestry may implement a management programme (official control programme) in accordance with Part V of the Biosecurity Act 1993 and Part V of the Biosecurity Amendment Act 1997.

Appendix

Pest List

Commodity Sub-class: Fresh Fruit/Vegetables

Avocado, *Persea americana*

from Australia

REGULATED PESTS (actionable)

Quarantine: Risk group 3 pests

Insect

Insecta

Diptera

Tephritidae

<i>Bactrocera aquilonis</i>	fruit fly
<i>Bactrocera neohumeralis</i>	lesser Queensland fruit fly
<i>Bactrocera tryoni</i>	Queensland fruit fly
<i>Ceratitis capitata</i>	Mediterranean fruit fly

Quarantine: Risk group 2 pests

Fungus

Mitosporic Fungi (Hyphomycetes)

Hyphomycetales

Dematiaceae

<i>Pseudocercospora purpurea</i>	-
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Virus

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-

avocado sun blotch viroid	-
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Quarantine: Risk group 1 pests

Insect

Insecta

Coleoptera

Cerambycidae

<i>Mesolita lineolata</i>	longhorn beetle
<i>Prosopis torosa</i>	longhorn beetle

Chrysomelidae

<i>Aulacophora hilaris</i>	pumpkin beetle
<i>Monolepta australis</i>	red-shouldered leaf beetle
<i>Poneridia australis</i>	fig beetle
<i>Rhyparida</i> spp.	leaf beetles

Curculionidae	
<i>Leptopius tetrapsodes</i>	fruit tree root weevil
<i>Leptopius tuberculatus</i>	fruit tree root weevil
<i>Neomerimnetes flindersiae</i>	weevil
<i>Paleticus</i> sp.	avocado bark beetle
<i>Sternocorynus</i> sp.	weevil
Scarabaeidae	
<i>Anoplognathus punctulatus</i>	scarab beetle
<i>Diphucephala</i> spp.	green scarab beetles
<i>Protaetia fusca</i>	mango flower beetle
Tenebrionidae	
<i>Lagria cyanea</i>	honeybrown beetle
Unknown Coleoptera	
<i>Isacantha rhinotoides</i>	belid beetle
Diptera	
Tephritidae	
<i>Dirioxa pornia</i>	island fruit fly
Hemiptera	
Coreidae	
<i>Amblypelta lutescens</i>	fruit-spotting bug
<i>Amblypelta nitida</i>	fruit-spotting bug
<i>Dasyneus fuscescens</i>	fruit-spotting bug
<i>Mictis caja</i>	fruit-spotting bug
Lygaeidae	
<i>Nysius clevelandensis</i>	grey cluster bug
<i>Nysius vinitor</i>	Rutherglen bug
<i>Oxycarenus arctatus</i>	coon bug
<i>Oxycarenus luctuosus</i>	cotton seed bug
Miridae	
<i>Helopeltis</i> sp.	mirid
Pentatomidae	
<i>Plautia affinis</i>	green stink bug
Homoptera	
Aleyrodidae	
<i>Aleurocanthus spiniferus</i>	orange spiny whitefly
Coccidae	
<i>Ceroplastes rubens</i>	red wax scale
Diaspididae	
<i>Abgrallaspis cyanophylli</i>	cyanophyllum scale
<i>Chrysomphalus aonidum</i>	Florida red scale
<i>Chrysomphalus dictyospermi</i>	dictyospermum scale
<i>Fiorinia fioriniae</i>	fiorinia scale
Flatidae	
<i>Siphanta galatea</i>	planthopper
Hymenoptera	
Formicidae	
<i>Camponotus</i> spp.	carpenter ants
<i>Myrmecia</i> spp.	bulldog ants
Lepidoptera	
Geometridae	
<i>Cleora inflexaria</i>	grey looper
<i>Cleora repedita</i>	looper
<i>Ectropis camelaria</i>	ectropis looper
<i>Eucyclodes pieroides</i>	bizarre looper
<i>Gymnoscelis lophopus</i>	looper
<i>Lophodes sinistraria</i>	brown looper
Lymantriidae	
<i>Acyphas leucomelas</i>	omnivorous tussock moth
<i>Euproctis lutea</i>	Turkestan brown-tail
<i>Euproctis</i> sp.	browntail moth

<i>Olene mendosa</i>	tussock moth
<i>Olene ostracina</i>	tussock moth
<i>Orgyia australis</i>	vapourer moth
<i>Orgyia papuana</i>	painted pine moth
Noctuidae	
<i>Erygia apicalis</i>	noctuid moth
Papilionidae	
<i>Graphium eurypylus</i>	palegreen triangle butterfly
Psychidae	
<i>Oiketicus elongatus</i>	Saunders' case moth
Pyralidae	
<i>Conogethes punctiferalis</i>	yellow peach moth
Tortricidae	
<i>Cryptophlebia ombrodelta</i>	litchi fruit moth
<i>Cryptoptila immersana</i>	ivy leafroller
<i>Epiphyas</i> spp. (except <i>E. postvittana</i>)	leafrollers
<i>Homona spargotis</i>	avocado leafroller
<i>Isotenes miserana</i>	orange fruitborer
<i>Lobesia</i> sp.	European grape berry moth
Thysanoptera	
Thripidae	
<i>Selenothrips rubrocinctus</i>	redbanded thrips
Mite	
Arachnida	
Acarina	
Tetranychidae	
<i>Oligonychus coffeae</i>	tea red spider mite
Fungus	
Ascomycota	
Phyllachorales	
Phyllachoraceae	
<i>Glomerella cingulata</i> (anamorph <i>Colletotrichum gloeosporioides</i>)	anthracnose
Mitosporic Fungi (Coelomycetes)	
Sphaeropsidales	
Sphaerioidaceae	
<i>Phomopsis perseae</i>	-

Regulated non-quarantine pests

None

Regulated non plant pests/unwanted organisms

None

NON-REGULATED PESTS (non-actionable)

Non-regulated non-quarantine pests

Insect

Insecta

Coleoptera

Curculionidae

Asynonychus cervinus

Fuller's rose weevil

Hemiptera

Pentatomidae

Nezara viridula

green vegetable bug

Homoptera

Coccidae

Ceroplastes ceriferus

Indian white wax scale

Ceroplastes destructor

white wax scale

Coccus longulus

long brown scale

Saissetia coffeae

hemispherical scale

Diaspididae

Aspidiotus nerii

oleander scale

Hemiberlesia lataniae

latania scale

Lindingaspis rossi

Ross' black scale

Ricaniidae

Scolyropa australis

passionvine hopper

Lepidoptera

Tortricidae

Epiphyas postvittana

light brown apple moth

Thysanoptera

Thripidae

Heliothrips haemorrhoidalis

greenhouse thrips

Mite

Arachnida

Acarina

Tarsonemidae

Polyphagotarsonemus latus

broad mite

Tetranychidae

Eotetranychus sexmaculatus

sixspotted mite

Tetranychus urticae

twospotted spider mite

Fungus

Ascomycota

Dothideales

Botryosphaeriaceae

Botryosphaeria dothidea (anamorph *Fusicoccum aesculi*)-

Leotiales

Sclerotiniaceae

Botryotinia fuckeliana (anamorph

ear rot

Botrytis cinerea)

Mitosporic Fungi (Coelomycetes)

Sphaeropsidales

Sphaerioidaceae	
<i>Lasiodiplodia theobromae</i>	stem-end rot
Unknown Coelomycetes	
Unknown Coelomycetes	
<i>Colletotrichum acutatum</i>	-

Non-regulated non plant pests/organisms

None