Import Health Standard Commodity Sub-class: Fresh Fruit/Vegetables Grape, *Vitis vinifera* from Australia

ISSUED

Issued pursuant to Section 22 of the Biosecurity Act 1993 Date Issued: 20 December 2000

1 NEW ZEALAND NATIONAL PLANT PROTECTION ORGANISATION

The official contact point in New Zealand for overseas NPPOs is the Ministry for Primary Industries (MPI). All communication pertaining to this import health standard should be addressed to:

Manager, Import and Export Plants Ministry for Primary Industries PO Box 2526 Wellington NEW ZEALAND

Fax: 64-4-894 0662 E-mail: PlantImports@mpi.govt.nz http://www.mpi.govt.nz

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 MPI, 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 MPI of any change in its address.

The national plant protection organisation of the exporting country is required to inform MPI of any newly recorded organisms 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:

Environmental Protection Authority Private Bag 63002 Wellington 6140 NEW ZEALAND

Or info@epa.govt,nz

Note:

In order to meet the Environmental Protection Authority requirements the scientific name (i.e. genus and species) of the commodity must be included in the phytosanitary certificate.

3 EXPLANATION OF PEST CATEGORIES

MPI has categorised organisms associated with plants and plant products into regulated and nonregulated 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. Weeds may be in the form of seeds or other plant parts.

3.1 REGULATED ORGANISMS

Regulated organisms are those organisms for which phytosanitary actions would be undertaken if they were intercepted/detected. These will include new organisms as defined by the Hazardous Substances and New Organisms Act 1996. 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 (e.g. 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 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

Regulated non plant pests 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 (e.g. 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 regulated 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

Non-regulated organisms are those organisms for which phytosanitary actions would not be undertaken if they were intercepted/detected. These would include new organisms which could not establish in New Zealand. Non-regulated organisms are sub-divided into the following groups:

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, could not establish in New Zealand.

3.2.2 Non-regulated non plant pests

Non-regulated non plant pests are not pests of plants and are not of concern to MPI or any other New Zealand government department.

3.3 CONTAMINANTS (INCLUDING SOIL)

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

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 (e.g. 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 MPI 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 MPI standard,
- an official bilateral quarantine arrangement between MPI and the 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 MPI's Chief Technical Officer and the head of the supply country's national plant protection organisation.

6 SPECIFIC CONDITIONS FOR GRAPES FROM AUSTRALIA

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

6.1 PRE-EXPORT REQUIREMENTS

6.1.1 Inspection of the consignment

MPI 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 MPI), 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 grapes from Australia.

6.1.3 Documentation

Bilateral quarantine arrangement: Required

Grapes, 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 grapes, 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 MPI have been undertaken.

The grapes have:

- been inspected in accordance with appropriate official procedures and found to be free of visually detectable regulated pests specified by MPI

AND

undergone an agreed treatment that is effective against species in Quarantine: Risk group 3.

AND

undergone appropriate pest control activities that are effective against:

Conogethes punctiferalis Latrodectus hasselti Maconellicoccus hirsutus

OR

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

Conogethes punctiferalis Maconellicoccus hirsutus

Note: Combinations of treatments and area freedom are permissible for the aforementioned risk group 2 regulated pests.

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 grapes 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 MPI.

AND

- been treated in accordance with Appendix 2, 5 or 12 of the Arrangement between MPI 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:

Conogethes punctiferalis Latrodectus hasselti Maconellicoccus hirsutus

OR

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

Conogethes punctiferalis Maconellicoccus hirsutus." Note: For *Latrodectus hasselti*, either an additional declaration is required whereby *Latrodectus hasselti* is treated using forced air fumigation with a mixture of sulphur dioxide (1%) and carbon dioxide (6%) for 30 minutes OR the treatment specification for *Latrodectus hasselti* is detailed in the treatment section of the Phytosanitary Certificate.

6.2 TRANSIT REQUIREMENTS

The grapes must be packed and shipped in a manner to prevent contamination by regulated 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

MPI will check the accompanying documentation on arrival to confirm that it reconciles with the actual consignment.

MPI requires, with 95% confidence, that not more than 0.5% of the units (for grapes, a unit is one bunch) in a consignment are infested with visually detectable regulated pests. To achieve this, MPI 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

MPI may, on the specific request of the Chief Technical Officer, test grapes (commodity subclass: fresh fruit/vegetables) from Australia for regulated pests.

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

If regulated 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 Technical 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 MPI. Once the requirements of MPI have been met to the satisfaction of the Chief Technical 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

Actions for the interception/detection of regulated non plant pests 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

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

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 regulated 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 MPI of the interception (and treatment) of any regulated pests, "unlisted" organisms, or non-compliance with other phytosanitary requirements.

7 CONTINGENCIES FOLLOWING BIOSECURITY CLEARANCE

Should a regulated pest be detected subsequent to biosecurity clearance, MPI 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

Pest List Commodity Sub-class: Fresh Fruit/Vegetables Grape, *Vitis vinifera* from Australia

REGULATED PESTS (actionable)

Quarantine: Risk group 3 pests

Insect Insecta Diptera Tephritidae Bactrocera neohumeralis Bactrocera tryoni Ceratitis capitata Quarantine: Risk group 2 pests

lesser Queensland fruit fly Queensland fruit fly Mediterranean fruit fly

Insect	
Insecta	
Homoptera	
Pseudococcidae	
Maconellicoccus hirsutus	pink hibiscus mealybug
Lepidoptera	
Pyralidae	
Conogethes punctiferalis	yellow peach moth

Quarantine: Risk group 1 pests

Insect Insecta Coleoptera Cerambycidae	
Dihammus vastator	fig longhorn
Chrysomelidae	ing longhorn
Altica gravida Monolepta australis Monolepta divisa Curculionidae	metallic flea beetle red-shouldered leaf beetle small monolepta beetle
Orthorhinus cylindrirostris	elephant weevil
Orthorhinus klugi Otiorhynchus cribricollis	immigrant acacia weevil cribrate weevil
Nitidulidae	
Carpophilus maculatus	dried fruit beetle
Scarabaeidae	
Dilochrosis atripennis	flower chafer
Diphucephala sp.	green scarab beetles
Diptera	
Drosophilidae	
Drosophila spp.	vinegar flies

Hemiptera	
Coreidae Fabrictilis australis	aguach hug
	squash bug
Mictis profana Lygaeidae	crusader bug
Nysius vinitor	Rutherglen bug
Oxycarenus arctatus	coon bug
Pentatomidae	coon bug
Plautia affinis	green stink bug
Pyrrhocoridae	green suink bug
Dysdercus sidae	pale cotton stainer
Scutelleridae	paie obtion stanler
Scutiphora pedicellata	metallic shield bug
Homoptera	
Aleyrodidae	
Aleurocanthus spiniferus	orange spiny whitefly
Margarodidae	ordingo opiny writery
Icerya seychellarum	Seychelles scale
Pseudococcidae	
Ferrisia virgata	striped mealybug
Lepidoptera	ottiped mealybug
Lymantriidae	
Porthesia paradoxa	tussock moth
Noctuidae	
Agrotis munda	brown cutworm
Eudocima fullonia	fruit-piercing moth
Psychidae	
Hyalarcta huebneri	leaf case moth
Sphingidae	
Hippotion celerio	grapevine hawk moth
Theretra oldenlandiae	vine hawk moth
Tortricidae	
Epiphyas spp. (except E. postvittana)	leafrollers
Orthoptera	
Acrididae	
Austracris guttulosa	spur-throated locust
Valanga irregularis	giant grasshopper
Thysanoptera	
Phlaeothripidae	
Haplothrips froggatti	black plague thrips
Thripidae	
Scirtothrips dorsalis	chilli thrips
Mite	
Arachnida	
Acarina	
Tenuipalpidae	
Brevipalpus lewisi	bunch mite
Tetranychidae	
Calepitrimerus vitis	grapeleaf rust mite
Eutetranychus orientalis	pear leaf blister mite
Mollusc	
Gastropoda	
Stylommatophora	
Bradybaenidae	
Bradybaena similaris	snail
Dradysaona onniano	onun

Fungus Mitosporic Fungi (Coelomycetes)	
Sphaeropsidales	
Sphaerioidaceae	
Ascochyta ampelina	leaf spot
Ascochyta chlorospora	-
Coniella diplodiella	white rot
Mitosporic Fungi (Hyphomycetes)	
Hyphomycetales	
Dematiaceae	Les C. Passas
Alternaria vitis	leaf disease
Cladosporium viticola	cladosporium leaf spot
Weed	
Angiospermae	
Asterales	
Asteraceae	
Baccharis halimifolia [contaminant]	baccharis
Chondrilla juncea [contaminant]	skeleton weed
Sonchus spp. (except S. arvensis, S. asper, S. oleraceus, S.	sowthistle
kirkii) [contaminant] Xanthium spp. (except X. spinosum) [contaminant]	bur
Geraniales	bur
Zygophyllaceae	
Tribulus terrestris [contaminant]	caltrop
Poales	callop
Poaceae	
Cenchrus spp. (except C. ciliaris) [contaminant]	grass
Digitaria spp. (except D. aequiglumis, D. ciliaris, D.	grass
ischaemum, D. sanguinalis, D. setigera, D. violascens)	°
[contaminant]	
Echinochloa spp. (except E. crus-galli, E. crus-pavonis, E.	grasses
esculenta, E. telmatophila) [contaminant]	
Eragrostis curvula [contaminant]	African love grass
Pennisetum alopecuroides [contaminant]	Chinese pennisetum
Pennisetum polystachion [contaminant]	mission grass
Phragmites spp. [contaminant]	grass
Sorghum halepense [contaminant]	Johnson grass
Sorghum x almum [contaminant] Solanales	Columbus grass
Solanaceae Lycium spp. (except L. barbarum, L. ferocissimum)	boxthorn
[contaminant]	DOVIDIDI
Solanum elaeagnifolium [contaminant]	silverleaf nightshade
colariam olaoagimonam [contaminant]	

Regulated non-quarantine pests

None

Regulated non plant pests

Spider Arachnida Araneae Theridiidae Latrodectus hasselti

Australian red-back spider

NON-REGULATED PESTS (non-actionable)

Non-regulated non-quarantine pests

Insect	
Insecta	
Coleoptera	
Curculionidae	
Otiorhynchus sulcatus	black vine weevil
Nitidulidae	
Carpophilus dimidiatus	corn sap beetle
Carpophilus hemipterus	dried fruit beetle
Urophorus humeralis	dried fruit beetle
Scarabaeidae	
Heteronychus arator	black beetle
Hemiptera	
Pentatomidae	
Nezara viridula	green vegetable bug
Homoptera	gioon regetable bag
Aleyrodidae	
Trialeurodes vaporariorum	greenhouse whitefly
Aphididae	greenhouse whitehy
Aphis craccivora	cowpea aphid
Aphis clacevola Aphis gossypii	cotton aphid
Aphis gossyph Aphis spiraecola	spirea aphid
Macrosiphum euphorbiae Coccidae	potato aphid
Coccus persicae	grapevine scale
Parasaissetia nigra	nigra scale
Parthenolecanium corni	European fruit scale
Diaspididae	
Aspidiotus nerii	oleander scale
Quadraspidiotus perniciosus	San Jose scale
Phylloxeridae	
Viteus vitifoliae	grape phylloxera
Pseudococcidae	
Planococcus citri	citrus mealybug
Pseudococcus calceolariae	citrophilus mealybug
Pseudococcus longispinus	longtailed mealybug
Pseudococcus viburni	obscure mealybug
Lepidoptera	
Agaristidae	
Phalaenoides glycinae	grapevine moth
Noctuidae	0
Spodoptera litura	cluster caterpillar
Tortricidae	
Cydia molesta	oriental fruit moth
Épiphyas postvittana	light brown apple moth
Thysanoptera	5
Thripidae	
Frankliniella occidentalis	western flower thrips
Heliothrips haemorrhoidalis	greenhouse thrips
Thrips imaginis	plague thrips
Thrips tabaci	onion thrips
impo tabaoi	

Mite Arachnida Acarina Tarsonemidae Polyphagotarsonemus latus broad mite Tenuipalpidae Brevipalpus californicus bunch mite Tetranychidae Panonychus ulmi European red mite Tetranychus urticae twospotted spider mite Mollusc Gastropoda Stylommatophora Helicidae Helix aspersa common garden snail Fungus Ascomycota Diatrypales Diatrypaceae eutypa dieback Eutypa armeniacae Eutypa lata eutypa dieback Dothideales Botryosphaeriaceae Botryosphaeria dothidea (anamorph Fusicoccum aesculi) canker Elsinoaceae Elsinoe ampelina (anamorph Sphaceloma ampelinum) anthracnose **Mycosphaerellaceae** Mycosphaerella personata (anamorph Pseudocercospora isariopsis blight vitis) Mycosphaerella tassiana (anamorph Cladosporium herbarum) black leaf spot Erysiphales Erysiphaceae Uncinula necator (anamorph Oidium tuckeri) powdery mildew Leotiales Sclerotiniaceae Botryotinia fuckeliana (anamorph Botrytis cinerea) grey mould Sclerotinia sclerotiorum cottony rot Phyllachorales Phyllachoraceae Glomerella cingulata (anamorph Colletotrichum bitter rot gloeosporioides) Mitosporic Fungi (Coelomycetes) Sphaeropsidales . Sphaerioidaceae bunch rot Fusicoccum luteum Macrophomina phaseolina ashv stem blight Phoma pomorum phoma fruit and leaf spot Phomopsis viticola dead arm fungus Unknown Coelomycetes Unknown Coelomycetes Greeneria uvicola bitter rot Mitosporic Fungi (Hyphomycetes) Hyphomycetales Moniliaceae

Aspergillus niger

aspergillus rot

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Peronosporales Peronosporaceae Plasmopara viticola Zygomycota: Zygomycetes Mucorales Mucoraceae Rhizopus arrhizus Rhizopus stolonifer Weed Angiospermae Asterales Asteraceae Sonchus arvensis [contaminant] Sonchus asper [contaminant] Sonchus kirkii [contaminant] Sonchus oleraceus [contaminant] Xanthium spinosum [contaminant] Poales Poaceae Cenchrus ciliaris [contaminant] Digitaria aequiglumis [contaminant] Digitaria ciliaris [contaminant] Digitaria ischaemum [contaminant] Digitaria sanguinalis [contaminant] Digitaria setigera [contaminant] Digitaria violascens [contaminant] Echinochloa crus-galli [contaminant] Echinochloa crus-pavonis [contaminant] Echinochloa esculenta [contaminant] Echinochloa telmatophila [contaminant] Pennisetum macrourum [contaminant] Solanales

Lycium barbarum [contaminant] Lycium ferocissimum [contaminant]

Non-regulated non plant pests

None

Solanaceae

Oomycota

downy mildew

wet rot rhizopus soft rot

perennial sow thistle prickly sow thistle

puha bur

buffel grass

summer grass summer grass crab grass barn grass gulf barnyard grass Japanese millet

African feather grass

boxthorn boxthorn