Import Health Standard
Commodity Sub-class: Fresh Fruit/Vegetables
Cucumber, *Cucumis sativus*
from Australia

ISSUED

Issued pursuant to Section 22 of the Biosecurity Act 1993
Date Issued: 9 June 2000

AMENDMENT RECORD

Amendments to this standard will be given a consecutive number and will be dated.

<table>
<thead>
<tr>
<th>Amendment No.</th>
<th>Entered By</th>
<th>Date</th>
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<tbody>
<tr>
<td>1</td>
<td>L. Stewart</td>
<td>xx xx 2012</td>
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</tbody>
</table>

1 NEW ZEALAND NATIONAL PLANT PROTECTION ORGANISATION

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

Chief Technical Officer
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 cannot be imported 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 Ministry for Primary Industries that are not covered by an import health standard, 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 Ministry for Primary Industries of any change in its address.
The national plant protection organisation of the exporting country is required to inform the Ministry for Primary Industries 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:

Manager, Operations
Environmental Protection Authority
PO Box 131
Wellington
NEW ZEALAND

Also note:
In order to meet the Environmental Protection 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

The Ministry for Primary Industries 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. 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 the Ministry for Primary Industries 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 the Ministry for Primary Industries 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 Ministry for Primary Industries standard,
- an official bilateral quarantine arrangement between the Ministry for Primary Industries 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 the Ministry for Primary Industries Chief Technical Officer and the head of the supply country's national plant protection organisation.

6 SPECIFIC CONDITIONS FOR CUCUMBERS FROM AUSTRALIA

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

6.1 PRE-EXPORT REQUIREMENTS

6.1.1 Inspection of the consignment

The Ministry for Primary Industries 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 Ministry for Primary Industries), 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 cucumbers from Australia.

6.1.3 Documentation

Bilateral quarantine arrangement: Required
Cucumbers, 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 cucumbers, 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 Ministry for Primary Industries have been undertaken.

The cucumbers have:

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

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:
  
  *Bemisia tabaci*
  *Phyllophaga* sp.
  *Tetranychus kanzawai*
  *Thrips palmi [vect.]*

OR

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

*Bemisia tabaci*
*Phyllophaga* sp.
*Tetranychus kanzawai*
*Thrips palmi [vect.]*

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 cucumbers 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 the New Zealand Ministry for Primary Industries.

AND

- undergone appropriate pest control activities that are effective against those Risk group 2 regulated pests specified by NZ MPI.

OR

been sourced from an area free from those Risk group 2 regulated pests specified by NZ MPI.

AND

- been treated in accordance with
  - Appendix 2; OR,
  - Appendix 3 and Appendix 10; OR
  - Appendix 4; OR,
  - Appendix 10 and Appendix 11

of the Arrangement between the New Zealand Ministry for Primary Industries 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.

6.2 TRANSIT REQUIREMENTS

The cucumbers 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

The Ministry for Primary Industries will check the accompanying documentation on arrival to confirm that it reconciles with the actual consignment.

The Ministry for Primary Industries requires, with 95% confidence, that not more than 0.5% of the units (for cucumbers, a unit is one fruit) in a consignment are infested with visually detectable...
regulated pests. To achieve this, the Ministry for Primary Industries 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 Ministry for Primary Industries may, on the specific request of the Chief Technical Officer, test cucumbers (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 the Ministry for Primary Industries. Once the requirements of the Ministry for Primary Industries 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/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 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 the Ministry for Primary Industries Chief Technical Officer 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, the Ministry for Primary Industries 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
Cucumber, *Cucumis sativus*
from Australia

REGULATED PESTS (actionable)

Quarantine: Risk group 3 pests

Insect

<table>
<thead>
<tr>
<th>Order</th>
<th>Family</th>
<th>Species</th>
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</thead>
<tbody>
<tr>
<td>Insecta</td>
<td>Diptera</td>
<td><em>Bactrocera cucumis</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Ceratitis capitata</em></td>
</tr>
<tr>
<td></td>
<td>Tephritidae</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><em>Cucumis sativus</em></td>
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</tbody>
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Quarantine: Risk group 2 pests

Insect

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Insecta</td>
<td>Coleoptera</td>
<td><em>Phyllophaga sp.</em></td>
</tr>
<tr>
<td></td>
<td>Scarabaeidae</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><em>Cucumis sativus</em></td>
</tr>
<tr>
<td></td>
<td>Homoptera</td>
<td><em>Bemisia tabaci</em></td>
</tr>
<tr>
<td></td>
<td>Aleyrodidae</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><em>Cucumis sativus</em></td>
</tr>
<tr>
<td></td>
<td>Thysanoptera</td>
<td></td>
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<tr>
<td></td>
<td>Thripidae</td>
<td><em>Thrips palmi</em> [vect.]</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cucumis sativus</em></td>
</tr>
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Mite

<table>
<thead>
<tr>
<th>Order</th>
<th>Family</th>
<th>Species</th>
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<tbody>
<tr>
<td>Arachnida</td>
<td>Acarina</td>
<td><em>Tetranychus kanzawai</em></td>
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</table>

Quarantine: Risk group 1 pests

Insect

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<thead>
<tr>
<th>Order</th>
<th>Family</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insecta</td>
<td>Coleoptera</td>
<td><em>Apomecyna histrio</em></td>
</tr>
<tr>
<td></td>
<td>Cerambycidae</td>
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<tr>
<td></td>
<td></td>
<td><em>Cucumis sativus</em></td>
</tr>
<tr>
<td></td>
<td>Chrysomelidae</td>
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<tr>
<td></td>
<td></td>
<td><em>Aulacophora foveicollis</em></td>
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<tr>
<td></td>
<td></td>
<td><em>Aulacophora hilaris</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Monolepta australis</em></td>
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<tr>
<td></td>
<td>Coccinellidae</td>
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<tr>
<td></td>
<td></td>
<td><em>Epilachna boissduvali</em></td>
</tr>
</tbody>
</table>

IHS Fresh Fruit/Vegetables. *Cucumis sativus* from Australia
(Biosecurity Act 1993)
ISSUED: xx xx 2012
Epilachna vigintioctomaculata  
Henosepilachna cucurbitae  
Henosepilachna suffusa  

Curculionidae  
Listroderes difficilis  

Diptera  

Sciariidae  
Bradyisia impatiens  

Tephritidae  
Dacus axamus  
Dacus petioliforma  

Hemiptera  
Coreidae  
Amblypelta nitida  
Fabricillalis australis  

Dinidoridae  
Megymenium insulare  

Lygaeidae  
Nysius vinitor  

Miridae  
Creontiades dilutus  
Halticiellus tibialis  

Homoptera  

Aphididae  
Aphis gossypii [vect.]  
Myzus persicae [vect.]  

Cicadellidae  
Empoasca spp.  

Diaspididae  
Lepidosaphes beckii  

Pseudococcidae  
Dysmicoccus brevipes  
Ferrisia virgata  
Planococcus minor  

Lepidoptera  

Noctuidae  
Anadevidia peponis  
Helicoverpa assulta  
Spodoptera exigua  

Pyralidae  
Diaphania indica  
Hellula undalis  

Orthoptera  

Acrididae  
Phaulacridium vittatum  

Thysanoptera  

Thripidae  
Frankliniella occidentalis [vect.]  
Thrips hawaiiensis  
Thrips tabaci [vect.]  

Mite  

Arachnida  
Acarina  

Acaridae  
Tyrophagus dimidiatus  

Tetranychidae  
Eutetranychus orientalis  
Tetranychus desertorum  
Tetranychus lombardii  

leaf feeding coccinellid  
cucurbit ladybird  
vegetable weevil  
fungus gnat  
fruit fly  
fruit fly  
fruit-spotting bug  
squash bug  
cucurbit shield bug  
Rutherglen bug  
green mirid  
plant bug  
cotton aphid  
green peach aphid  
green leafhoppers  
purple scale  
pineapple mealybug  
striped mealybug  
Pacific mealybug  
cucumber looper  
cape gooseberry budworm  
beet armyworm  
melon moth  
oriental cabbage webworm  
wingless grasshopper  
western flower thrips  
Hawaiian flower thrips  
onion thrips  
mushroom mite  
pear leaf blister mite  
desert spider mite  
southern lobed mite
Tetranychus neocaledonicus  Mexican spider mite

Fungus

Ascomycota
Phyllum
Phyllum		
Phyllum
Phyllachorales
Phyllachoraceae
Glomerella cingulata var. minor
(anamorph Colletotrichum gloeosporioides var. minor)
Unknown Ascomycota
Hyponectriaceae
Monographella cucumerina
(anamorph Microdochium tabacinum)

Mitosporic Fungi (Hyphomycetes)
Hyphomycetes
Dematiaceae

Cladosporium cucumerinum
--
Moniliaceae

Verticillium albo-atrum [severe strain]
progressive wilt

Tuberculariales
Tuberculariaceae

Fusarium oxysporum f. sp. melonis
--

Oomycota
Pythiales

Pythiaceae

Pythium aphanidermatum
cottony leak
Pythium mamillatum
root rot
Pythium myriotylum
rhizome and root rot

Zygomycota: Zygomycetes
Mucorales

Choanephoraceae

Choanephora cucurbitarum
blight

Virus

-
-
-
tobacco ringspot nepovirus [strain] [VO]
-
tomato spotted wilt tospovirus [strain] [VO]
-

Regulated non-quarantine pests

None

Regulated non plant pests

None
NON-REGULATED PESTS (non-actionable)

Non-regulated non-quarantine pests

Insect

Insecta

Coleoptera

Curculionidae

Asynonychus cervinus  Fuller's rose weevil
Listroderes obliquus  vegetable weevil
Naupactus leucoloma  whitefringed weevil

Collembola

Sminthuridae

Bourletiella hortensis  garden springtail
Sminthurus viridis  lucerne flea

Dermoptera

Forficulidae

Forficula auricularia  European earwig

Diptera

Anthomyiidae

Delia platura  seedcorn maggot

Hemiptera

Pentatomidae

Nezara viridula  green vegetable bug

Homoptera

Aleyrodidae

Bemisia argentifolii  poinsettia whitefly
Trialeurodes vaporariorum  greenhouse whitefly

Aphididae

Acyrthosiphon pisum  pea aphid
Aphis craccivora  cowpea aphid
Aphis spiraecola  spirea aphid
Aulacorthum solani  foxglove aphid
Brevicoryne brassicae  cabbage aphid
Lipaphis erysimi  turnip aphid
Macrocephaliella samborni  chrysanthemum aphid
Macrosiphum euphorbiae  potato aphid
Rhopalosiphum rufiabdominalis  rice root aphid

Coccidae

Saissetia coffeae  hemispherical scale
Pseudococcidae

Planococcus citri  citrus mealybug

Lepidoptera

Noctuidae

Chrysodeixis eriosoma  green garden looper
Helicoverpa armigera  tomato fruitworm
Spodoptera litura  cluster caterpillar

Thysanoptera

Thripidae

Heliothrips haemorrhoidalis  greenhouse thrips

Mite

Arachnida

Acarina

Acaridae

Tyrophagus longior  seed mite
Tyrophagus putrescentiae  mould mite
### Fungus

**Ascomycota**

**Dothideales**

- *Pleospora tarsa* (anamorph *Stemphylium botryosum*)
  - Black mould

**Erysiphales**

- *Erysiphe cichoracearum* (anamorph *Oidium asteris-punicei*)
  - Powdery mildew

**Hypocreales**

- *Gibberella acuminata* (anamorph *Fusarium acuminatum*)
  - Fusarium storage rot

- *Gibberella fujikuroi* (anamorph *Fusarium fujikuroi*)
  - Fusarium rot

- *Gibberella gordonia* (anamorph *Fusarium heterosporum*)
  - Mould

- *Gibberella intricanca* (anamorph *Fusarium equiseti*)
  - Root and stem dry rot

- *Gibberella zeae* (anamorph *Fusarium graminearum*)
  - Mould

**Leotiales**

- *Botryotinia fuckeliana* (anamorph *Botrytis cinerea*)
  - Grey mould

- *Sclerotinia minor*
  - Sclerotinia rot

- *Sclerotinia sclerotiorum*
  - Cottony rot

**Phyllachorales**

- *Glomerella lagenaria* (anamorph *Colletotrichum orbiculare*)
  - --

**Saccharomycetales**

- *Dipodascus geometricus* (anamorph *Geotrichum candidum*)
  - Sour rot

**Basidiomycota: Basidiomycetes**

**Ceratobasidiales**

- *Thanatephorus cucumeris* (anamorph *Rhizoctonia solani*)
  - Rhizoctonia rot

**Stereales**

- *Athelia rolfsii* (anamorph *Sclerotium rolfsii*)
  - Rolf's disease

**Mitosporic Fungi (Coelomycetes)**

**Sphaeropsidales**

- *Lasiodiplodia theobromae*
  - Fruit and stem-end rot

- *Macrophomina phaseolina*
  - Ashy stem blight

- *Phomopsis sclerotioides*
  - --

- *Septoria cucurbitacearum*
  - --

**Unknown Coelomycetes**

- *Colletotrichum coccosides*
  - Anthracnose
### Mitosporic Fungi (Hyphomycetes)

#### Hyphomycetales

**Dematiaceae**
- *Alternaria cucumerina*
- *Corynespora cassicola*
- *Epicoccum nigrum*

**Moniliaceae**
- *Verticillium dahliae*

#### Tuberculariales

**Tuberculariae**
- *Fusarium culmorum*
- *Fusarium oxysporum f. sp. cucumerinum*
- *Fusarium oxysporum f. sp. niveum*
- *Fusarium palidдорoseum*
- *Fusarium poae*
- *Fusarium roseum*
- *Fusarium solani f. sp. cucurbitae*

**Unknown Hyphomycetes**
- *Trichothecium roseum*

#### Oomycota

**Peronosporales**
- *Pseudoperonospora cubensis* - downy mildew

**Pythiales**

**Pythiaceae**
- *Phytophthora drechsleri* -
- *Pythium irregulare* - pythium root and stem rot
- *Pythium oligandrum* -
- *Pythium ultimum* - leak

**Zygomycota: Zygomycetes**

**Mucorales**

**Mucoraceae**
- *Rhizopus arrhizus* - wet rot
- *Rhizopus stolonifer* - rhizopus soft rot

#### Bacterium

**Enterobacteriaceae**
- *Erwinia carotovora subsp. carotovora* - bacterial soft rot

**Pseudomonadaceae**
- *Pseudomonas syringae pv. lachrymans* - angular leaf spot
- *Xanthomonas campestris pv. cucurbitae* - bacterial leaf spot

### Non-regulated non plant pests

None