APPROVAL

EPPO Standard PM 1/2 was first approved by EPPO Council in September 1975. This version was approved by EPPO Council in September 2004. In the terms of Article II of the IPPC, it is a Regional Standard for EPPO Member Governments.

REVIEW

EPPO Standards are subject to periodic review and amendment. The next review date for this EPPO Standard is decided by the EPPO Working Party on Phytosanitary Regulations.

AMENDMENT RECORD

Amendments will be issued as necessary, numbered and dated.

DISTRIBUTION

EPPO Standards are distributed by the EPPO Secretariat to all EPPO Member Governments. Copies are available to any interested person under particular conditions upon request to the EPPO Secretariat.

SCOPE

This standard presents and explains the EPPO A1 and A2 lists of pest recommended for regulation as quarantine pests.

REFERENCES


DEFINITIONS

A1 pest (for an area) A quarantine pest not present in that area
A2 pest (for an area) A quarantine pest present in that area but not widely distributed there and being officially controlled
Quarantine pest A pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and being officially controlled
Regional Plant Protection Organization An intergovernmental organization with the functions laid down by Article VIII of the IPPC

OUTLINE OF REQUIREMENTS

The EPPO A1 and A2 Lists include the pests which EPPO recommends to be regulated as quarantine pests, in the national phytosanitary regulations of EPPO Member Governments. These recommendations are based on pest risk analysis and on appropriate documentation. This document presents the Lists and gives details on their background, development and use.
The EPPO Convention lays down that one of the aims of EPPO is "to pursue and develop, by cooperation between the Member Governments, the protection of plants and plant products against pests and the prevention of their international spread and especially their introduction into endangered areas". EPPO Council has consequently decided to draw up lists of pests whose regulation is relevant for the whole of, or large parts of, the EPPO region. The first List is of A1 pests, not present in the EPPO region. The second List is of A2 pests, present in the EPPO region but not widely distributed (i.e. absent from or not widely distributed in endangered areas in certain countries, where they are therefore subject to official control).

Notwithstanding the above, it is accepted that certain pests appearing in the A1 and A2 Lists, though of concern to some Member Governments, may not be of concern to all the countries from which they are absent, and in particular that it may not be necessary or useful for all countries to take measures contributing to the protection of those countries which are at risk from these pests. Therefore, the Pest Risk Analysis process aims to identify the part of the EPPO region which is endangered.

Establishment and maintenance of the A1 and A2 Lists of pests recommended for regulation as quarantine pests

Addition of pests to the A1 or A2 Lists

EPPO started to elaborate A1 and A2 Lists in the early 1970s and the first Lists were approved in 1975. Additions of pests to the A1 or A2 List were proposed by Member Governments and made on the basis of scientific documentation and expert judgement. From 2000 to 2006, the addition of a pest to the A1 or A2 List was based on the proposal of a Member Government which provided a Pest Risk Analysis (PRA) conforming to EPPO Standard PM 5/3 Decision support scheme for quarantine pests, and supported by compilation of data according to EPPO Standard PM 5/1 Check-list of information required for Pest Risk Analysis. The EPPO Working Party on Phytosanitary Regulations decided, after due consideration, whether to recommend to EPPO Council the addition of a given pest to the Lists.

Since 2006, a new system has been established and special expert groups have been created to conduct PRA, called Expert Working Groups (EWG) for PRA. These groups have an ad hoc membership in order for experts on specific pests to be called upon to participate when needed, as well as core members to provide consistency in conducting PRA. Core members are mainly drawn from existing EPPO Panels, and have experience of performing or reviewing risk assessment and determining risk management options. Two core members are selected for each Expert Working Group, but all core members are involved in reviewing the documents produced by a Expert Working Group (see below). Pest Risk Analyses are carried out on pests either proposed by an EPPO Member Government or by the Panel on Phytosanitary Measures (in this case, pests are mainly selected from the EPPO Alert List). For invasive plants the Panel on Invasive Alien Species can also make proposals. The Working Party on Phytosanitary Regulations decides on priorities for PRA, but there will be enough flexibility to ensure that a PRA can be conducted on a new emerging pest even if it is not on the priority list. Pest Risk Analyses on pests are performed during the meetings of the Expert Working Group for PRA, following ISPM no. 11 and EPPO PM 5/3 Decision-support scheme for quarantine pests. The report of the PRA is prepared by the Secretariat, together with a record of the EPPO decision-support scheme. These are both sent by email to all core members for review. After this consultation, the reports of the PRA is presented to the Panel on Phytosanitary Measures which makes appropriate recommendations to the EPPO Working Party on Phytosanitary Regulations. The Working Party on Phytosanitary Regulations decides, after due consideration, whether to recommend to EPPO Council the addition of a given pest to the List.

Deletion of pests from the A1 or A2 List

When new information concerning a pest is reviewed by the Panel on Phytosanitary Measures and leads to the conclusion that the phytosanitary risk has changed and its management as a regulated pest is no longer justified, the Panel on Phytosanitary Measures recommends to the Working Party that the pest should be deleted from the A1 or A2 List. The EPPO Working Party on Phytosanitary Regulations decided, after due consideration, whether to recommend to EPPO Council the deletion of a given pest from the List.

Transfer of pests from the A1 to the A2 Lists

The transfer of a pest from the A1 to the A2 List, or vice versa, is decided by the Working Party on the basis of adequate documentation justifying the change in status. The EPPO Working Party on Phytosanitary Regulations decides, after due consideration, whether to recommend to EPPO Council the transfer of a given pest.

A1 and A2 Lists

These Lists are presented in Appendix 1.
PREVIOUS VERSIONS OF THIS STANDARD

Several previous versions of the EPPO A1 and A2 Lists have already been approved and published, and are hereby established as the original versions of this standard. They are:


Versions PM 1/2(5-17), corresponding to the modifications decided by EPPO Council since 1991, have been published electronically.
APPENDIX 1 (2008-09)

EPPO A1 LIST OF PESTS RECOMMENDED FOR REGULATION AS QUARANTINE PESTS

PROKARYOTES

*Liberibacter africanum* & *L. asiaticum* A1/151
Palm lethal yellowing phytoplasma A1/138
Peach rosette phytoplasma A1/139
*Phytoplasma ulmi* (Elm phloem necrosis) A1/26
Potato purple-top wilt phytoplasma A1/128
Western X-disease phytoplasma A1/140
*Xanthomonas axonopodis* pv. *citri* A1/1
*Xanthomonas oryzae* pv. *oryzae* A1/2
*Xanthomonas oryzae* pv. *oryzicola* A1/3
*Xylella fastidiosa* A1/166

FUNGI

*Alternaria mali* A1/277
*Anisogramma anomala* A1/201
*Apiosporina morbosa* A1/10
*Atropellis pinicola* A1/5
*Atropellis piniphila* A1/280
*Ceratocystis fagacearum* and its vectors A1/6
*Pseudopityophthorus minutissimus*
*Pseudopityophthorus pruinosis*
*Chrysomyxa arctostaphyli* A1/8
*Cronartium colesporioides* A1/248
*Cronartium comandrae* A1/249
*Cronartium comptoniae* A1/250
*Cronartium fusiforme* A1/9
*Cronartium himalayense* A1/251
*Cronartium quercuum* A1/252
*Davidiella (Mycosphaerella) populorum* A1/17
*Diaporthe vaccinii* A1/211
*Endocronartium harknessii* A1/11
*Gibberella circinata* A1/306
*Guignardia citricarpa* A1/194
*Gymnosporangium clavipes* A1/253
*Gymnosporangium globosum* A1/254
*Gymnosporangium juniperi-virginianae* A1/255
*Gymnosporangium yamadai* A1/257
*Melampsora farlowii* A1/15
*Mycosphaerella gibsonii* A1/7
*Mycosphaerella larici-leptolepidis* A1/16
*Ophiostoma wageneri* A1/179
*Phaeoramularia angolensis* A1/298
*Phellinus weirii* A1/19
*Phoma andigena* A1/141
*Phyllosticta solitaria* A1/20
*Phytophthoropsis omnivora* A1/21
*Phytophthora lateralis* A1/337
*Puccinia pittieriana* A1/155
*Septoria lycopersici var. malagutii* A1/142
*Siroccoccus clavigeni-juglandacearum* A1/329
*Stegophora ulmea* A1/315
*Thecaphora solani* A1/4
*tilletia indica* A1/23

PARASITIC PLANTS

*Arceuthobium* spp. (non-European) A1/24
*Arceuthobium abietinum*
*Arceuthobium americanum*
*Arceuthobium campylodorum*
*Arceuthobium douglasii*
*Arceuthobium laricis*
*Arceuthobium minutissimum*
*Arceuthobium occidentale*
*Arceuthobium pusillum*
*Arceuthobium tsugense*
*Arceuthobium vaginatum*

VIRUSES

*American plum line pattern virus* (Ilarvirus) A1/28
*Andean potato mottle virus* (Comovirus) A1/245
*Bean golden mosaic virus* (Begomovirus) A1/204
*Cherry rasp leaf virus* (Cheravirus) A1/127
*Chrysanthemum stem necrosis virus* (Tospovirus) A1/313
*Citrus blight disease* A1/278
*Citrus leprosis virus* A1/284
*Citrus mosaic virus* (Badnavirus) A1/285
*Citrus tatter leaf virus* (Capillovirus) A1/191
*Coconut cadang-cadang viroid* (Cocadviroid) A1/192
*Eggplant mosaic virus* (Andean potato latent virus) (Tymovirus) A1/244
*Lettuce infectious yellows virus* (Crinivirus) A1/212
*Peach mosaic virus* (Trichovirus) A1/27
*Peach rosette mosaic virus* (Nepovirus) A1/219
*Potato black ringspot virus* (Nepovirus) A1/246
*Potato virus T* A1/247
*Potato yellow dwarf virus* (Nucleorhabdovirus) A1/29
*Potato yellow vein virus* (Crinivirus) A1/30
*Potato yellowing virus* A1/220
*Raspberry leaf curl virus* (Nepovirus) A1/31
*Squash leaf curl virus* (Begomovirus) A1/224
*Strawberry latent C virus* A1/129
*Tomato mottle virus* (Begomovirus - and other American Geminiviridae of capsicum and tomato) A1/225
*Watermelon silver mottle virus* (Tospovirus) A1/294
NEMATODES
Bursaphelenchus xylophilus and its vectors in the genus Monochamus A1/158
Nacobbus aberrans A1/144
Radopholus similis (attacking citrus, formerly R. citrophilus) A1/161
Xiphinema americanum sensu stricto A1/150
Xiphinema bricolense A1/260
Xiphinema californicum A1/261

INSECTS AND MITES
Acleris gloverana A1/281
Acleris variana A1/32
Agrilus planipennis A1/322
Aleurocanthus spiniferus A1/186
Aleurocanthus woglumi A1/103
Anastrepha fraterculus A1/229
Anastrepha ludens A1/230
Anastrepha obliqua A1/231
Anastrepha suspensa A1/200
Anoplophora glabripennis A1/296
Anthonomus bisignifer A1/189
Anthonomus eugenii A1/202
Anthonomus grandis A1/34
Anthonomus signatus A1/164
Bactrocera cucumis A1/203
Bactrocera cucurbitae A1/232
Bactrocera dorsalis A1/233
Bactrocera minax A1/234
Bactrocera tryoni A1/235
Bactrocera tseuneonis A1/236
Bactrocera zonata A1/302
Blitopertha orientalis A1/33
Ceratitis rosa A1/237
Choristoneura conflictana A1/205
Choristoneura fumiferana A1/206
Choristoneura occidentalis A1/207
Choristoneura rosacea A1/208
Conotrachelus nemphar A1/35
Cydia packardi A1/209
Cydia prunivora A1/36
Dacus ciliatus A1/238
Dendroctonus adjunctus A1/43
Dendroctonus brevicomis A1/263
Dendroctonus frontalis A1/264
Dendroctonus ponderosae A1/265
Dendroctonus pseudotsugae A1/266
Dendroctonus rufipennis A1/267
Diabrotica barberi A1/210
Diabrotica speciosa A1/303
Diabrotica undecimpunctata A1/292
Diaphorina citri A1/37

Dryocoetes confusus A1/268
Epitrix cucumeris A1/299
Epitrix tuberis A1/165
Gnathotrichus sulcatus A1/269
Gonipterus gubberus A1/301
Helicoverpa zea A1/195
Heteronychus arator A1/297
Homalodisca coagulata A1/336
Ips calligraphus A1/270
Ips confusus A1/271
Ips grandicollis A1/272
Ips lecontei A1/273
Ips pini A1/274
Ips plastographus A1/275
Listronotus bonariensis A1/168
Maconellicoccus hirsutus A1/314
Malacosoma americanum A1/276
Malacosoma disstria A1/213
Margarodes prieskaensis A1/214
Margarodes vitis A1/215
Margarodes vredendalensis A1/216
Melanotus communis A1/305
Naupactus leucoloma A1/293
Nemorimyza (Amauromyza) maculosa A1/152
Oligonychus perditus A1/217
Orgyia pseudotsugata A1/218
Pheletes (Limonius) californicus A1/304
Pissodes nemorensis A1/44
Pissodes strobi A1/258
Pissodes terminalis A1/259
Premonotrypes latithorax, P. suturicallus & P. vorax A1/143
Rhagoletis fausta A1/241
Rhagoletis indifferens A1/242
Rhagoletis mendax A1/243
Rhagoletis pomonella A1/41
Rhizoeus hibisci A1/300
Rynchophorus palmarum A1/332
Scirtothrips aurantii A1/221
Scirtothrips citri A1/222
Spodoptera eridania A1/196
Spodoptera fragiperda A1/197
Spodoptera littura A1/42
Stenocheta mangiferae A1/286
Thrips palmi A1/175
Trioza erytreae A1/46
Tuta absoluta A1/321
Unaspis citri A1/226
EPPO A2 LIST OF PESTS RECOMMENDED FOR REGUALTION AS QUARANTINE PESTS

PROKARYOTES

Burkholderia caryophylli A2/55
Clavibacter michiganensis subsp. insidiosus A2/49
Clavibacter michiganensis subsp. michiganensis A2/50
Clavibacter michiganensis subsp. sepedonicus A2/51
Curtobacterium flaccumfaciens pv. flaccumfaciens A2/48

Dickeya (Erwinia) chrysanthemi A2/53
Erwinia amylovora A2/52
Pantoea stewartii A2/54
Phytoplasma mali (Apple proliferation) A2/87
Phytoplasma pyri (Pear decline) A2/95
Phytoplasma solani (Stolbur) A2/100
Phytoplasma vitis (Grapevine flavescence dorée) A2/94
Pseudomonas syringae pv. persicae A2/145
Ralstonia solanacearum A2/58
Xanthomonas arboricola pv. corylina A2/134
Xanthomonas arboricola pv. pruni A2/62
Xanthomonas axonopodis pv. dieffenbachiae A2/180
Xanthomonas axonopodis pv. phaseoli A2/60
Xanthomonas axonopodis pv. poinsettiicola A2/350
Xanthomonas axonopodis pv. vesicatoria and Xanthomonas vesicatoria A2/157
Xanthomonas fragariae A2/135
Xanthomonas translucens pv. translucens A2/183
Xylophilus ampelinus A2/133

FUNGI

Botryosphaeria laricina A2/12
Ceratocystis fimbriata f.sp. platani A2/136
Ciborinia camelliae A2/190
Cronartium kantschaticum A2/18
Cryphonectria parasitica A2/69
Deuterophoma tracheiphila A2/287
Didymella gossypii A2/66
Fusarium foetens A2/345
Fusarium oxysporum f.sp. albedinis A2/70
Glomerella gossypii A2/71
Gymnosporangium asiaticum A2/13
Melampsora medusae A2/74
Monilinia fructicola A2/66
Phialophora cinerescens A2/22
Phytophthora fragariae A2/79
Puccinia harrana A2/80
Stenocarpella macrospora A2/67
Stenocarpella maydis A2/68
Synchytrium endobioticum A2/82
Verticillium albo-atrum & F. dahliae (hop-infecting strains) A2/85

VIRUSES

Beet leaf curl virus A2/90
Beet necrotic yellow vein virus (Benyvirus) A2/160
Blueberry leaf mottle virus (Nepovirus) A2/198
Blueberry scorched virus (Carlavirus) A2/347
Chrysanthemum stunt viroid (Pospiviroid) A2/92
Citrus tristeza virus (Closterovirus) A2/93
Cucumber vein yellowing virus (Ipomovirus) A2/316
Cucurbit yellow stunting disorder virus (Crinivirus) A2/324
Impatiens necrotic spot virus (Tospovirus) A2/291
Plum pox virus (Potyvirus) A2/96
Potato spindle tube viroid (Pospiviroid) A2/97
Raspberry ringspot virus (Nepovirus) A2/98
Satsuma dwarf virus (Sadnavirus) A2/279
Strawberry veinbanding virus (Caulimovirus) A2/101
Tobacco ringspot virus (Nepovirus) A2/228
Tomato chlorosis virus (Crinivirus) A2/323
Tomato infectious chlorosis virus (Crinivirus) A2/348
Tomato ringspot virus (Nepovirus) A2/102
Tomato spotted wilt virus (Tospovirus) A2/290
Tomato yellow leaf curl virus (Begomovirus) and related viruses A2/182

INSECTS AND MITES

Aculops fuchsiae A2/185
Aeolesthes sarta A2/307
Anoplophora chinensis A2/187
Bemisia tabaci A2/178
Cacoecimorpha pronubana A2/104
Cacyreus marshalli A2/181
Carposina sasakii A2/163
Ceratitis capitata A2/105
Cydia inopinata A2/193
Dendrolimus sibiricus A2/308
Dendrolimus superans A2/330
Diabrotica virgifera A2/199
Dryocosmus kuriphilus A2/317
Erschowiella musculana A2/318
Eutetranychus orientalis A2/288
Frankliniella occidentalis A2/177
Gonipterus scutellatus A2/38
Helicoverpa armigera A2/110
Hesperophanes campestris A2/343
Ips hauseri A2/326
Ips subelongatus A2/325
Lepidosaphes ussuriensis A2/319
Leptinotarsa decemlineata A2/113
Liriomyza huidobrensis A2/283
Liriomyza sativae A2/282
Liriomyza trifolii A2/131
Lopholeucaspis japonica A2/289
Lymantria mathura A2/331
Malacosoma parallela A2/320
Megaplatypus mutatus A2/344
Numonia pirivorella A2/184
Ophogona sacchari A2/154
Paysandisia archon A2/338
Popilia japonica A2/40
Quadraspidiotus perniciosus A2/117
Rhagoletis cingulata A2/239
Rhyynchophorus ferrugineus A2/339
Scirtothrips dorsalis A2/223
Scolytus moravitzi A2/309
Sirex ermak A2 327
Spodoptera littoralis A2/120
Strobilomyia viaria A2/333
Tecia solanivora A2/310
Tetranychus evansi A2/349
Tetranychus gracilicorne A2/311
Tetranychus evansi A2/349
Toxoptera citricida A2/45
Trogoderma granarium A2/121
Viteus vitifoliae A2/106
Xylotrechus altaicus A2/312
Xylotrechus namanganensis A2/328

NEMATODES
Aphelenchoides besseyi A2/122
Ditylenchus dipsaci A2/174
Globodera pallida A2/124
Globodera rostochiensis A2/125
Heterodera glycines A2/167
Meloidogyne chitwoodii A2/227
Meloidogyne fallax A2/295
Radopholus similis (not attacking citrus) A2/126
Xiphinema rivesi A2/262

INVASIVE PLANTS
Crassula helmsii A2/340
Eichhornia crassipes A2/351
Hydrocotyle ranunculoides A2/334
Lysichiton americanus A2/335
Polygonum perfoliatum A2/352
Pueraria lobata A2/341
Solanum elaeagnifolium A2/342
EPPO A1 AND A2 PESTS IN ALPHABETICAL ORDER

Acleris gloverana A1/281
Acleris variana A1/32
Aculops fuchsiae A2/185
Aeolesthes sarta A2/307
Agrilus planipennis A1/322
Acleris variana A1/32
Aculops fuchsiae A2/185
Aeolesthes sarta A2/307
Alternaria mali A1/277
American plum line pattern virus (Ilarvirus) A1/28
Anastrepha fraterculus A1/229
Anastrepha ludens A1/230
Anastrepha obliqua A1/231
Anastrepha suspensa A1/200
Andean potato mottle virus (Comovirus) A1/245
Anisogramma anomala A1/201
Anoplophora chinensis A2/187
Anoplophora glabrripennis A1/296
Anthonomus bisignifer A1/189
Anthonomus eugenii A1/202
Anthonomus grandis A1/34
Anthonomus signatus A1/164
Aphelenchoides besseyi A2/122
Apiosporina morbosa A1/10
Arceuthobium spp. (non-European) A1/24
Atropellis pinicola A1/5
Atropellis piniphila A1/280
Bactrocera cucumis A1/203
Bactrocera cucurbitae A1/232
Bactrocera dorsalis A1/233
Bactrocera minax A1/234
Bactrocera tryoni A1/235
Bactrocera tsuneonis A1/236
Bactrocera zonata A1/302
Bean golden mosaic virus (Begomovirus) A1/204
Beet leaf curl virus A2/90
Beet necrotic yellow vein virus (Benyvirus) A2/160
Bemisia tabaci A2/178
Bitopertha orientalis A1/33
Blueberry leaf mottle virus (Nepovirus) A2/198
Blueberry scorch virus (Carlavirus) A2/347
Botryosphaeria laricina A2/12
Burkholderia caryophylli A2/55
Bursaphelenchus xylophilus and its vectors in the genus Monochamus A1/158
Cacoecimorpha pronubana A2/104
Cacyreus marshallii A2/181
Carposina sasakii A2/163
Ceratitis capitata A2/105
Ceratitis rosa A1/237
Ceratocystis fagacearum and its vectors A1/6
Ceratocystis fimbriata f.sp. platani A2/136
Cherry rasp leaf virus (Cheravirus) A1/127
Choristoneura confluicata A1/205
Choristoneura fumiferana A1/206
Choristoneura occidentalis A1/207
Choristoneura rosacea A1/208
Chrysanthemum stem necrosis virus (Tospovirus) A1/313
Chrysanthemum stunt viroid (Pospiviroid) A2/92
Chrysomyxa arctostaphyli A1/8
Ciborinia camelliae A2/190
Citrus blight disease A1/278
Citrus leprosis virus A1/284
Citrus mosaic badnavirus A1/285
Citrus tatter leaf virus (Capillovirus) A1/191
Citrus tristeza virus (Closterovirus) A2/93
Clavibacter michiganensis subsp. insidiosus A2/49
Clavibacter michiganensis subsp. michiganensis A2/50
Clavibacter michiganensis subsp. sepedonicus A2/51
Coconut cadang-cadang viroid (Cocadviroid) A1/192
Conotrachelus nephar A1/35
Crassula helmsii A2/340
Cronartium comander A1/248
Cronartium componia A1/250
Cronartium fusiforme A1/9
Cronartium hisayalense A1/251
Cronartium kamtschaticum A2/18
Cronartium quercuum A1/252
Cryptonectria parasitica A2/69
Cucumber vein yellowing virus (Ipomovirus) A2/316
Cucurbit yellow stunting disorder virus (Crinivirus) A2/324
Curtobacterium flaccumfaciens pv. flaccumfaciens A2/48
Cydia inopinata A2/193
Cydia packardi A1/209
Cydia prunivora A1/36
Dacus ciliatus A1/238
Davidiella (Mycosphaerella) popularum A1/17
Dendroctonus adjunctus A1/43
Dendroctonus brevicomis A1/263
Dendroctonus frontalis A1/264
Dendroctonus ponderosae A1/265
Dendroctonus pseudotsugae A1/266
Dendroctonus rufipennis A1/267
Dendrolimus sibiricus A2/308
Dendrolimus superans A2/330
Deuterophoma tracheiphila A2/287
Diabrotica barberi A1/210
Diabrotica speciosa A1/303
Diabrotica undecimpunctata A1/292
Diabrotica virgifera A2/199
Diaphorina citri A1/37
Diaporothe vaccini A1/211
Dickyea (Erwinia) chrysanthemi A2/53
Didymella ligulicola A2/66
Ditylenchus dipsaci A2/174
Dryocoetes confusus A2/268
Dryocosmus kuriphilus A2/317
Eggplant mosaic virus (Andean potato latent virus) (Tymovirus) A1/244
Eichhornia crassipes A2/351
Endocronartium harknessii A1/11
Epitrix cucumeris A1/299
Epitrix tuberis A1/165
Erschoviella musculana A2/318
Erwinia amylovora A2/52
Eutetranychus orientalis A2/288
Frankliniella occidentalis A2/177
Fusarium foetens A2/345
Fusarium oxysporum f.sp. albedinis A2/70
Gibberella circinata A1/306
Globodera pallida A2/124
Globodera rostochiensis A2/125
Glomerella gossypii A2/71
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<tr>
<td>93. Citrus tristeza virus (Closterovirus)</td>
<td></td>
</tr>
<tr>
<td>94. (Phytoplasma vitis) Grapevine flavescence dorée</td>
<td></td>
</tr>
<tr>
<td>95. Phytoplasma pyri (Pear decline)</td>
<td></td>
</tr>
<tr>
<td>96. Plum pox virus (Potyvirus)</td>
<td></td>
</tr>
</tbody>
</table>
Potato spindle tuber viroid (Pospiviroid)
Raspberry ringspot virus (Nepovirus)
formerly Rose wilt
Phytoplasma solani (Stolbur)
Strawberry veinbanding virus (Caulimovirus)
Tomato ringspot virus (Nepovirus)
Aleurocanthus woglumi
Cacoecimorpha pronubana
Ceratitis capitata
Viteus vitifoliae
formerly Rhopalomyia chrysanthemi
formerly Epichoristodes acerbella
formerly Eriosoma lanigerum
formerly Hyphantria cunea
formerly Ips amitinus
Leptinotarsa decemlineata
formerly Phoracantha semipunctata
formerly Phthorimaea operculella
formerly Pseudococcus comstocki
Quadraspidiolus perniciosus
formerly Scolytus multistriatus
formerly Scolytus scolytus
Spodoptera littoralis
Trogoderma granarium
Aphelenchoides besseyi
formerly Ditylenchus destructor
formerly Globodera pallida
formerly Globodera rostochiensis
formerly Radopholus similis (not attacking citrus)
formerly Cherry rasp leaf viroid (Cheravirus)
Peach purple-top wilt phytoplasma
now = no. 166
formerly Strawberry witches' broom phytoplasma
formerly Xiphinema americanum sensu stricto
formerly Liberibacter asiaticum
formerly Diaporthe phaseolorum
formerly Anarsia lineatella
formerly Grapholita molesta
formerly Xylella fastidiosa
formerly Liriomyza trifolii
formerly Agrobacterium tumefaciens
formerly Parabemisia myricae
formerly Carposina sasakii
formerly Anthonomus signatus
formerly Epitrix tuberis
formerly Xanthomonas axonopodis
formerly Bursaphelenchus xylophilus
formerly Parthenos sylvia
formerly Apricot chlorotic leafroll phytoplasma
formerly Black raspberry latent ilarvirus
formerly Apple mosaic ilarvirus (in Rubus)
formerly Xiphinema americanum sensu stricto
formerly Liberibacter africanum & L. asiaticum
formerly Nemorimyza (Amauromyza) maculosa
formerly Monilinia fructicola
formerly Ophiostoma wageneri
formerly Grapholita molesta
formerly Frankliniella occidentalis
formerly Bemisia tabaci
formerly Ophiostoma wageneri
formerly Tomato yellow leaf curl virus (Begomovirus) and related viruses
formerly Xanthomonas translucens pv. translucens
formerly Numonia pirivorella
formerly Aculops fuchsiae
formerly Aleurocanthus spiniferus
formerly Anoplophora chinensis
formerly Anoplophora malasiaca (now considered as a synonym of A. chinensis)
formerly Anthonomus bisignifer
formerly Ciborinia camelliae
formerly Citrus tatter leaf virus (Capillovirus)
formerly Coconut cadang-cadang viroid (Cocadviroid)
formerly Cydia inopinata
formerly Guignardia citricarpa
formerly Helicoverpa zea
formerly Spodoptera frugiperda
Blueberry leaf mottle virus (Nepovirus)  
Diabrotica virgifera  
Anastrepha suspensa  
Anisogramma anomala  
Anthonomus eugenii  
Bactrocera cucumis  
Bean golden mosaic virus (Begomovirus)  
Choristoneura conflictana  
Choristoneura fumiferana  
Choristoneura occidentalis  
Choristoneura rosaceana  
Cydia packardi  
Diabrotica barberi  
Diaporthe vaccinii  
Lettuce infectious yellows virus (Crinivirus)  
Malacosoma disstria  
Margarodes prieskaensis  
Margarodes vitis  
Margarodes vredendalensis  
Oligonychus perditus  
Orgyia pseudotsugata  
Pear rosette mosaic virus (Nepovirus)  
Potato yellowing virus  
Scirtothrips aurantii  
Scirtothrips citri  
Scirtothrips dorsalis  
Squash leaf curl virus (Begomovirus)  
Tomato mottle virus (Begomovirus) (and other American Geminiviridae of capsicum and tomato)  
Unaspis citri  
Meloidogyne chitwoodii  
Tobacco ringspot virus (Nepovirus)  
Anastrepha fraterculus  
Anastrepha ludens  
Anastrepha obliqua  
Bactrocera cucurbiteae  
Bactrocera dorsalis  
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Bactrocera dorsalis  
Squash leaf curl virus (Begomovirus)  
Tomato mottle virus (Begomovirus) (and other American Geminiviridae of capsicum and tomato)
<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
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<tbody>
<tr>
<td>302</td>
<td><em>Bactrocera zonata</em></td>
</tr>
<tr>
<td>303</td>
<td><em>Diabrotica speciosa</em></td>
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<tr>
<td>304</td>
<td><em>Pheletes (Limonius) californicus</em></td>
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<tr>
<td>305</td>
<td><em>Melanotus communis</em></td>
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<tr>
<td>306</td>
<td><em>Gibberella circinata</em></td>
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<td>307</td>
<td><em>Aeoesthes sarta</em></td>
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<tr>
<td>308</td>
<td><em>Dendrolimus sibiricus</em></td>
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<tr>
<td>309</td>
<td><em>Scolytus moravitzi</em></td>
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<td>310</td>
<td><em>Tectia solaniwora</em></td>
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<tr>
<td>311</td>
<td><em>Tetropium gracilicorne</em></td>
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<td>312</td>
<td><em>Xylotrechus altaicus</em></td>
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<tr>
<td>313</td>
<td><em>Chrysanthenum stem necrosis virus</em> (<em>Tospovirus</em>)</td>
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<tr>
<td>314</td>
<td><em>Maconellicoccus hirsutus</em></td>
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<tr>
<td>315</td>
<td><em>Stegophora ulmea</em></td>
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<tr>
<td>316</td>
<td><em>Cucumber vein yellowing virus</em> (<em>Ipomovirus</em>)</td>
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<tr>
<td>317</td>
<td><em>Dryocosmus kuriphilus</em></td>
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<td>318</td>
<td><em>Erschoviella musculana</em></td>
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<td>319</td>
<td><em>Lepidosaphes ussuriensis</em></td>
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<td>320</td>
<td><em>Malacosoma parallela</em></td>
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<td>321</td>
<td><em>Tuta absoluta</em></td>
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<td>322</td>
<td><em>Agrilus planipennis</em></td>
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<tr>
<td>323</td>
<td><em>Tomato chlorosis virus</em> (<em>Crinivirus</em>)</td>
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<tr>
<td>324</td>
<td><em>Cucurbit yellow stunting disorder virus</em> (<em>Crinivirus</em>)</td>
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<td>325</td>
<td><em>Ips subelongatus</em></td>
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<td>326</td>
<td><em>Ips hauseri</em></td>
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<td>327</td>
<td><em>Sirex ermak</em></td>
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<td>328</td>
<td><em>Xylotrechus namanganensis</em></td>
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<td>329</td>
<td><em>Siroccus clavigignenti-juglandacearum</em></td>
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<td>330</td>
<td><em>Dendrolimus superans</em></td>
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<td>331</td>
<td><em>Lymantria mathura</em></td>
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<td>332</td>
<td><em>Rhynchophorus palmarum</em></td>
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<td>333</td>
<td><em>Strobilomyia viaria</em></td>
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<td>334</td>
<td><em>Hydrocotyle ranunculoides</em></td>
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<td>335</td>
<td><em>Lysichiton americanus</em></td>
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<td>336</td>
<td><em>Homalodisca coagulata</em></td>
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<td>337</td>
<td><em>Phytophthora lateralis</em></td>
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<td><em>Paysandisia archon</em></td>
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<td><em>Rhynchophorus ferrugineus</em></td>
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<td><em>Crassula helmsii</em></td>
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<td><em>Pueraria lobata</em></td>
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<td>342</td>
<td><em>Solanum elaegnifolium</em></td>
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<tr>
<td>343</td>
<td><em>Hesperophanes campestris</em></td>
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<tr>
<td>344</td>
<td><em>Megaplatypus mutatus</em></td>
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<td>345</td>
<td><em>Fusarium foetens</em></td>
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<tr>
<td>346</td>
<td><em>Puccinia hemerocallidis</em></td>
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<tr>
<td>347</td>
<td><em>Blueberry scorch virus</em> (<em>Carlavirus</em>)</td>
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<tr>
<td>348</td>
<td><em>Tomato infectious chlorosis virus</em> (<em>Crinivirus</em>)</td>
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<td>349</td>
<td><em>Tetranychus evansi</em></td>
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<td>350</td>
<td><em>Xanthomonas axonopodis pv. poinsettiiola</em></td>
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<tr>
<td>351</td>
<td><em>Eichhornia crassipes</em></td>
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<tr>
<td>352</td>
<td><em>Polygonum perfoliatum</em></td>
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</tbody>
</table>