

◆ EPPO Standards ◆

**EPPO A1 AND A2 LISTS OF PESTS RECOMMENDED FOR
REGULATION AS QUARANTINE PESTS**

PM 1/2(17) English



European and Mediterranean Plant Protection Organization
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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

IPPC (1997) New revised text of the International Plant Protection Convention. IPPC Secretariat, FAO, Rome (IT).

IPPC (2005) *Glossary of phytosanitary terms*. ISPM No. 5 in *International Standards for Phytosanitary Measures*, pp. 41-63. IPPC Secretariat, FAO, Rome (IT).

OEPP/EPPO (1992) *EPPO Standard PM 5/1(1)*. Check-list of information required for pest risk analysis (PRA). *Bulletin OEPP/EPPO Bulletin* **23**, 191-198.

OEPP/EPPO (2008) *EPPO Standard PM 5/3(2)*. *Decision-support scheme for quarantine pests* from <http://www.eppo.org/QUARANTINE/quarantine.htm>.

OEPP/EPPO (2008) *EPPO Alert List* from: <http://www.eppo.org/QUARANTINE/quarantine.htm>

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.

REQUIREMENTS

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 decides, 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:

PM 1/2(1) EPPO recommendations on new quarantine measures. *Bulletin OEPP/EPPO Bulletin 5* (special supplement, 1975).

PM 1/2(2) EPPO recommendations on new quarantine measures (2nd edition). *Bulletin OEPP/EPPO Bulletin 12* (special supplement, 1982).

PM 1/2(3) EPPO lists of A1 and A2 quarantine organisms. *EPPO Publications Series B*, no. 92 (1988).

PM 1/2(4) Note on the A1 and A2 lists. In Specific Quarantine Requirements. *EPPO Technical Documents*, no. 1008 (1990).

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 A1/159
Peach rosette phytoplasma A1/138
Peach yellows 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 coleosporioides 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 yamadae A1/257
Melampsora farlowii A1/15
Mycosphaerella gibsonii A1/7
Mycosphaerella laricis-leptolepidis A1/16
Ophiostoma wageneri A1/179
Phaeoramularia angolensis A1/298
Phellinus weirii A1/19
Phoma andigena A1/141
Phyllosticta solitaria A1/20
Phymatotrichopsis omnivora A1/21
Phytophthora lateralis A1/337
Puccinia hemerocallidis A1/346

Puccinia pittieriana A1/155
Septoria lycopersici var. *malagutii* A1/142
Sirococcus clavignenti-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 campylopodum
 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 tsuneonis A1/236
Bactrocera zonata A1/302
Blitopertha orientalis A1/33
Ceratitidis rosa A1/237
Choristoneura conflictana A1/205
Choristoneura fumiferana A1/206
Choristoneura occidentalis A1/207
Choristoneura rosaceana A1/208
Conotrachelus nenufar A1/35
Cydia packardi A1/209
Cydia prunivora A1/36
Dacus ciliatus A1/238
Dendroctonus adjunctus A1/43
Dendroctonus brevicornis 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 gibberus 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
Premnotrypes latithorax, *P. suturicallus* & *P. vorax* A1/143
Rhagoletis fausta A1/241
Rhagoletis indifferens A1/242
Rhagoletis mendax A1/243
Rhagoletis pomonella A1/41
Rhizoecus hibisci A1/300
Rhynchophorus palmarum A1/332
Scirtothrips aurantii A1/221
Scirtothrips citri A1/222
Spodoptera eridania A1/196
Spodoptera frugiperda A1/197
Spodoptera litura A1/42
Sternochetus mangiferae A1/286
Thrips palmi A1/175
Trioxa erytrae A1/46
Tuta absoluta A1/321
Unaspis citri A1/226

EPPO A2 LIST OF PESTS RECOMMENDED FOR REGULATION 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. *poinsetticola* 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 kamschaticum A2/18
Cryphonectria parasitica A2/69
Deuterophoma tracheiphila A2/287
Didymella ligulicola 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 A2/153
Mycosphaerella dearnessii A2/22
Phialophora cinerescens A2/77
Phytophthora fragariae A2/79
Puccinia horiana A2/80
Stenocarpella macrospora A2/67
Stenocarpella maydis A2/68
Synchytrium endobioticum A2/82
Verticillium albo-atrum & *V. 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 scorch 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 tuber viroid (Pospiviroid) A2/97
Raspberry ringspot virus (Nepovirus) A2/98
Satsuma dwarf virus (Sadwavirus) 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
Erschoviella 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
Numonira pirivorella A2/184
Opogona sacchari A2/154
Paysandisia archon A2/338
Popillia japonica A2/40
Quadraspidiotus perniciosus A2/117
Rhagoletis cingulata A2/239
Rhynchophorus ferrugineus A2/339
Scirtothrips dorsalis A2/223
Scolytus morawitzi A2/309
Sirex ermak A2 327
Spodoptera littoralis A2/120
Strobilomyia viaria A2/333
Tecia solanivora A2/310
Tetranychus evansi A2/349
Tetropium gracilicorne A2/311
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
Aleurocanthus spiniferus A1/186
Aleurocanthus woglumi A1/103
Alternaria mali A1/277
American plum line pattern virus (Ilarivirus) 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 glabripennis 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
Blitopertha 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 marshalli A2/181
Carposina sasakii A2/163
Ceratitidis capitata A2/105
Ceratitidis 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 conflictana A1/205
Choristoneura fumiferana A1/206
Choristoneura occidentalis A1/207
Choristoneura rosaceana 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 nenuphar A1/35
Crassula helmsii A2/340
Cronartium coleosporioides A1/248
Cronartium comandrae A1/249
Cronartium comptoniae A1/250
Cronartium fusiforme A1/9
Cronartium himalayense A1/251
Cronartium kamtschaticum A2/18
Cronartium quercuum A1/252
Cryphonectria 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) populorum A1/17
Dendroctonus adjunctus A1/43
Dendroctonus brevicomis A1/263
Dendroctonus frontalis A1/264
Dendroctonus ponderosae A1/265
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Xanthomonas axonopodis pv. *dieffenbachiae* A2/180
Xanthomonas axonopodis pv. *phaseoli* A2/60
Xanthomonas axonopodis pv. *poinsetticola* A2/350
Xanthomonas axonopodis pv. *vesicatoria* and *Xanthomonas vesicatoria* A2/157
Xanthomonas fragariae A2/135
Xanthomonas oryzae pv. *oryzae* A1/2
Xanthomonas oryzae pv. *oryzicola* A1/3
Xanthomonas translucens pv. *translucens* A2/183
Xiphinema americanum sensu stricto A1/150
Xiphinema bricolense A1/260
Xiphinema californicum A1/261
Xiphinema rivesi A2/262
Xylella fastidiosa A1/166
Xylophilus ampelinus A2/133
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EPPO A1 AND A2 PESTS IN NUMERICAL ORDER

- | | | | | |
|----|---|--|----|--|
| 1 | <i>Xanthomonas axonopodis</i> pv. <i>citri</i> | | 48 | <i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> |
| 2 | <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> | | 49 | <i>Clavibacter michiganensis</i> subsp. <i>insidiosus</i> |
| 3 | <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> | | 50 | <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> |
| 4 | <i>Thecaphora solani</i> | | 51 | <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> |
| 5 | <i>Atropellis pinicola</i> | | 52 | <i>Erwinia amylovora</i> |
| 6 | <i>Ceratocystis fagacearum</i> and its vectors | | 53 | <i>Dickeya</i> (<i>Erwinia</i>) <i>chrysanthemi</i> |
| 7 | <i>Mycosphaerella gibsonii</i> | | 54 | <i>Pantoea stewartii</i> |
| 8 | <i>Chrysomyxa arctostaphyli</i> | | 55 | <i>Burkholderia caryophylli</i> |
| 9 | <i>Cronartium fusiforme</i> | | 56 | formerly <i>Pseudomonas syringae</i> pv. <i>glycinea</i> |
| 10 | <i>Apiosporina morbosa</i> | | 57 | formerly <i>Pseudomonas syringae</i> pv. <i>psi</i> |
| 11 | <i>Endocronartium harknessii</i> | | 58 | <i>Ralstonia solanacearum</i> |
| 12 | <i>Botryosphaeria laricina</i> | | 59 | formerly <i>Xanthomonas campestris</i> pv. <i>hyacinthi</i> |
| 13 | <i>Gymnosporangium asiaticum</i> | | 60 | <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> |
| 14 | formerly <i>Hamaspora longissima</i> | | 61 | formerly <i>Xanthomonas phaseoli</i> var. <i>fuscans</i> |
| 15 | <i>Melampsora farlowii</i> | | 62 | <i>Xanthomonas arboricola</i> pv. <i>pruni</i> |
| 16 | <i>Mycosphaerella laricis-leptolepidis</i> | | 63 | formerly <i>Ophiostoma ulmi</i> |
| 17 | <i>Davidiella</i> (<i>Mycosphaerella</i>) <i>populorum</i> | | 64 | formerly <i>Cochliobolus carbonum</i> |
| 18 | <i>Cronartium kamtschaticum</i> | | 65 | formerly <i>Cochliobolus heterostrophus</i> |
| 19 | <i>Phellinus weirii</i> | | 66 | <i>Didymella ligulicola</i> |
| 20 | <i>Phyllosticta solitaria</i> | | 67 | <i>Stenocarpella macrospora</i> |
| 21 | <i>Phymatotrichopsis omnivora</i> | | 68 | <i>Stenocarpella maydis</i> |
| 22 | <i>Mycosphaerella dearnessii</i> | | 69 | <i>Cryphonectria parasitica</i> |
| 23 | <i>Tilletia indica</i> | | 70 | <i>Fusarium oxysporum</i> f.sp. <i>albedinis</i> |
| 24 | <i>Arceuthobium</i> spp. (non-European) | | 71 | <i>Glomerella gossypii</i> |
| 25 | formerly Blackberry dwarf | | 72 | formerly <i>Hypoxyylon mammatum</i> |
| 26 | <i>Phytoplasma ulmi</i> (Elm phloem necrosis) | | 73 | formerly <i>Phaeoisariopsis griseola</i> |
| 27 | Peach American mosaic virus* | | 74 | <i>Melampsora medusae</i> |
| 28 | <i>American plum line pattern virus</i> (<i>Ilarvirus</i>) | | 75 | formerly <i>Mycosphaerella linicola</i> |
| 29 | <i>Potato yellow dwarf virus</i> (<i>Nucleorhabdovirus</i>) | | 76 | formerly <i>Ophiostoma roboris</i> |
| 30 | <i>Potato yellow vein virus</i> (<i>Crinivirus</i>) | | 77 | <i>Phialophora cinerescens</i> |
| 31 | <i>Raspberry leaf curl virus</i> (<i>Nepovirus</i>) | | 78 | formerly <i>Phoma exigua</i> var. <i>foveata</i> |
| 32 | <i>Acleris variana</i> | | 79 | <i>Phytophthora fragariae</i> |
| 33 | <i>Blitopertha orientalis</i> | | 80 | <i>Puccinia horiana</i> |
| 34 | <i>Anthonomus grandis</i> | | 81 | formerly <i>Puccinia pelargonii-zonalis</i> |
| 35 | <i>Conotrachelus nenuphar</i> | | 82 | <i>Synchytrium endobioticum</i> |
| 36 | <i>Cydia prunivora</i> | | 83 | formerly <i>Tilletia controversa</i> |
| 37 | <i>Diaphorina citri</i> | | 84 | formerly <i>Uromyces transversalis</i> |
| 38 | <i>Gonipterus scutellatus</i> | | 85 | <i>Verticillium albo-atrum</i> & <i>V. dahliae</i> (hop-infecting strains) |
| 39 | formerly <i>Hylurgopinus rufipes</i> | | 86 | formerly Apple chat fruit |
| 40 | <i>Popillia japonica</i> | | 87 | <i>Phytoplasma mali</i> (Apple proliferation) |
| 41 | <i>Rhagoletis pomonella</i> | | 88 | formerly Barley stripe mosaic hordeivirus |
| 42 | <i>Spodoptera litura</i> | | 89 | formerly Beet curly top virus |
| 43 | <i>Dendroctonus adjunctus</i> | | 90 | Beet leaf curl virus |
| 44 | <i>Pissodes nemorensis</i> | | 91 | formerly Cherry necrotic rusty mottle disease |
| 45 | <i>Toxoptera citricida</i> | | 92 | <i>Chrysanthemum stunt viroid</i> (<i>Pospiviroid</i>) |
| 46 | <i>Trioza erytreae</i> | | 93 | <i>Citrus tristeza virus</i> (<i>Closterovirus</i>) |
| 47 | formerly <i>Xanthomonas populi</i> | | 94 | (<i>Phytoplasma vitis</i>) Grapevine flavescence dorée |
| | | | 95 | <i>Phytoplasma pyri</i> (Pear decline) |
| | | | 96 | <i>Plum pox virus</i> (<i>Potyvirus</i>) |

* *Peach mosaic virus* (*Trichovirus*) was referred to for some years as peach latent mosaic viroid. The two names have now been shown to concern different organisms. Peach latent mosaic viroid no longer appears in the lists.

- 97 *Potato spindle tuber viroid (Pospiviroid)*
98 *Raspberry ringspot virus (Nepovirus)*
99 formerly Rose wilt
100 *Phytoplasma solani (Stolbur)*
101 *Strawberry veinbanding virus (Caulimovirus)*
102 *Tomato ringspot virus (Nepovirus)*
103 *Aleurocanthus woglumi*
104 *Cacoecimorpha pronubana*
105 *Ceratitis capitata*
106 *Viteus vitifoliae*
107 formerly *Rhopalomyia chrysanthemi*
108 formerly *Epichoristodes acerbella*
109 formerly *Eriosoma lanigerum*
110 *Helicoverpa armigera*
111 formerly *Hyphantria cunea*
112 formerly *Ips amitinus*
113 *Leptinotarsa decemlineata*
114 formerly *Phoracantha semipunctata*
115 formerly *Phthorimaea operculella*
116 formerly *Pseudococcus comstocki*
117 *Quadraspidiotus perniciosus*
118 formerly *Scolytus multistriatus*
119 formerly *Scolytus scolytus*
120 *Spodoptera littoralis*
121 *Trogoderma granarium*
122 *Aphelenchoides besseyi*
123 formerly *Ditylenchus destructor*
124 *Globodera pallida*
125 *Globodera rostochiensis*
126 *Radopholus similis* (not attacking citrus)
127 *Cherry rasp leaf virus (Cheravirus)*
128 Potato purple-top wilt phytoplasma
129 Strawberry latent C virus
130 formerly Strawberry witches' broom phytoplasma
131 *Liriomyza trifolii*
132 formerly *Agrobacterium rhizogenes*
133 *Xylophilus ampelinus*
134 *Xanthomonas arboricola* pv. *corylina*
135 *Xanthomonas fragariae*
136 *Ceratocystis fimbriata* f.sp. *platani*
137 formerly peach phony bacterium, now = no. 166
138 Peach rosette phytoplasma
139 Peach yellows phytoplasma
140 Western X-disease phytoplasma
141 *Phoma andigena*
142 *Septoria lycopersici* var. *malagutii*
143 *Premnotrypes latithorax*, *P. suturicallus* & *P vorax*
144 *Nacobbus aberrans*
145 *Pseudomonas syringae* pv. *persicae*
146 formerly Apricot chlorotic leafroll phytoplasma
147 formerly *Black raspberry latent ilarvirus*
148 formerly *Cherry leaf roll nepovirus* (in *Rubus*)
149 formerly *Apple mosaic ilarvirus* (in *Rubus*)
150 *Xiphinema americanum sensu stricto*
151 *Liberibacter africanum* & *L. asiaticum*
152 *Nemorimyza (Amauromyza) maculosa*
153 *Monilinia fructicola*
154 *Opogona sacchari*
155 *Puccinia pittieriana*
156 formerly *Phytophthora infestans* mating type A2
157 *Xanthomonas axonopodis* pv. *vesicatoria* and *Xanthomonas vesicatoria*
158 *Bursaphelenchus xylophilus* and its vectors in the genus *Monochamus*
159 Palm lethal yellowing phytoplasma
160 *Beet necrotic yellow vein virus (Benyvirus)*
161 *Radopholus similis* (attacking citrus, formerly *R. citrophilus*)
162 formerly *Parabemisia myricae*
163 *Carposina sasakii*
164 *Anthonomus signatus*
165 *Epitrix tuberis*
166 *Xylella fastidiosa*
167 *Heterodera glycines*
168 *Listronotus bonariensis*
169 formerly *Phialophora gregata*
170 formerly *Phytophthora megasperma* f.sp. *glycines*
171 formerly *Diaporthe phaseolorum*
172 formerly *Anarsia lineatella*
173 formerly *Grapholita molesta*
174 *Ditylenchus dipsaci*
175 *Thrips palmi*
176 formerly *Unaspis yanonensis*
177 *Frankliniella occidentalis*
178 *Bemisia tabaci*
179 *Ophiostoma wagneri*
180 *Xanthomonas axonopodis* pv. *dieffenbachiae*
181 *Cacyreus marshalli*
182 *Tomato yellow leaf curl virus (Begomovirus)* and related viruses
183 *Xanthomonas translucens* pv. *translucens*
184 *Numonia pirivorella*
185 *Aculops fuchsiae*
186 *Aleurocanthus spiniferus*
187 *Anoplophora chinensis*
188 *Anoplophora malasiaca* (now considered as a synonym of *A. chinensis*)
189 *Anthonomus bisignifer*
190 *Ciborinia camelliae*
191 Citrus tatter leaf virus (*Capillovirus*)
192 *Coconut cadang-cadang viroid (Cocadviroid)*
193 *Cydia inopinata*
194 *Guignardia citricarpa*
195 *Helicoverpa zea*
196 *Spodoptera eridania*
197 *Spodoptera frugiperda*

- 198 *Blueberry leaf mottle virus (Nepovirus)*
199 *Diabrotica virgifera*
200 *Anastrepha suspensa*
201 *Anisogramma anomala*
202 *Anthonomus eugenii*
203 *Bactrocera cucumis*
204 *Bean golden mosaic virus (Begomovirus)*
205 *Choristoneura conflictana*
206 *Choristoneura fumiferana*
207 *Choristoneura occidentalis*
208 *Choristoneura rosaceana*
209 *Cydia packardii*
210 *Diabrotica barberi*
211 *Diaporthe vaccinii*
212 *Lettuce infectious yellows virus (Crinivirus)*
213 *Malacosoma disstria*
214 *Margarodes prieskaensis*
215 *Margarodes vitis*
216 *Margarodes vredendalensis*
217 *Oligonychus perditus*
218 *Orgyia pseudotsugata*
219 *Peach rosette mosaic virus (Nepovirus)*
220 *Potato yellowing virus*
221 *Scirtothrips aurantii*
222 *Scirtothrips citri*
223 *Scirtothrips dorsalis*
224 *Squash leaf curl virus (Begomovirus)*
225 *Tomato mottle virus (Begomovirus) (and other American Geminiviridae of capsicum and tomato)*
226 *Unaspis citri*
227 *Meloidogyne chitwoodii*
228 *Tobacco ringspot virus (Nepovirus)*
229 *Anastrepha fraterculus*
230 *Anastrepha ludens*
231 *Anastrepha obliqua*
232 *Bactrocera cucurbitae*
233 *Bactrocera dorsalis*
234 *Bactrocera minax*
235 *Bactrocera tryoni*
236 *Bactrocera tsuneonis*
237 *Ceratitidis rosa*
238 *Dacus ciliatus*
239 *Rhagoletis cingulata*
240 formerly *Rhagoletis completa*
241 *Rhagoletis fausta*
242 *Rhagoletis indifferens*
243 *Rhagoletis mendax*
244 *Eggplant mosaic virus (Andean potato latent virus) (Tymovirus)*
245 *Andean potato mottle virus (Comovirus)*
246 *Potato black ringspot virus (Nepovirus)*
247 *Potato virus T*
248 *Cronartium coleosporioides*
249 *Cronartium comandrae*
250 *Cronartium comptoniae*
251 *Cronartium himalayense*
252 *Cronartium quercuum*
253 *Gymnosporangium clavipes*
254 *Gymnosporangium globosum*
255 *Gymnosporangium juniperi-virginianae*
256 formerly *Gymnosporangium shiraianum*
257 *Gymnosporangium yamadae*
258 *Pissodes strobi*
259 *Pissodes terminalis*
260 *Xiphinema bricolense*
261 *Xiphinema californicum*
262 *Xiphinema rivesi*
263 *Dendroctonus brevicomis*
264 *Dendroctonus frontalis*
265 *Dendroctonus ponderosae*
266 *Dendroctonus pseudotsugae*
267 *Dendroctonus rufipennis*
268 *Dryocoetes confusus*
269 *Gnathotrichus sulcatus*
270 *Ips calligraphus*
271 *Ips confusus*
272 *Ips grandicollis*
273 *Ips lecontei*
274 *Ips pini*
275 *Ips plastographus*
276 *Malacosoma americanum*
277 *Alternaria mali*
278 *Citrus blight disease*
279 *Satsuma dwarf virus (Sadwavirus)*
280 *Atropellis piniphila*
281 *Acleris gloverana*
282 *Liriomyza sativae*
283 *Liriomyza huidobrensis*
284 *Citrus leprosis virus*
285 *Citrus mosaic virus (Badnavirus)*
286 *Sternochetus mangiferae*
287 *Deuterophoma tracheiphila*
288 *Eutetranychus orientalis*
289 *Lopholeucaspis japonica*
290 *Tomato spotted wilt virus (Tospovirus)*
291 *Impatiens necrotic spot virus (Tospovirus)*
292 *Diabrotica undecimpunctata*
293 *Naupactus leucoloma*
294 *Watermelon silver mottle virus (Tospovirus)*
295 *Meloidogyne fallax*
296 *Anoplophora glabripennis*
297 *Heteronychus arator*
298 *Phaeoramularia angolensis*
299 *Epitrix cucumeris*
300 *Rhizoecus hibisci*
301 *Gonipterus gibberus*

- 302 *Bactrocera zonata*
303 *Diabrotica speciosa*
304 *Pheletes (Limoniuss) californicus*
305 *Melanotus communis*
306 *Gibberella circinata*
307 *Aeolesthes sarta*
308 *Dendrolimus sibiricus*
309 *Scolytus morawitzi*
310 *Tecia solanivora*
311 *Tetropium gracilicorne*
312 *Xylotrechus altaicus*
313 Chrysanthemum stem necrosis virus (*Tospovirus*)
314 *Maconellicoccus hirsutus*
315 *Stegophora ulmea*
316 Cucumber vein yellowing virus (*Ipomovirus*)
317 *Dryocosmus kuriphilus*
318 *Erschoviella musculana*
319 *Lepidosaphes ussuriensis*
320 *Malacosoma parallela*
321 *Tuta absoluta*
322 *Agrilus planipennis*
323 Tomato chlorosis virus (*Crinivirus*)
324 Cucurbit yellow stunting disorder virus
(*Crinivirus*)
325 *Ips subelongatus*
326 *Ips hauseri*
327 *Sirex ermak*
328 *Xylotrechus namanganensis*
329 *Sirococcus clavigignenti-juglandacearum*
330 *Dendrolimus superans*
331 *Lymantria mathura*
332 *Rhynchophorus palmarum*
333 *Strobilomya viaria*
334 *Hydrocotyle ranunculoides*
335 *Lysichiton americanus*
336 *Homalodisca coagulata*
337 *Phytophthora lateralis*
338 *Paysandisia archon*
339 *Rhynchophorus ferrugineus*
340 *Crassula helmsii*
341 *Pueraria lobata*
342 *Solanum elaeagnifolium*
343 *Hesperophanes campestris*
344 *Megaplatypus mutatus*
345 *Fusarium foetens*
346 *Puccinia hemerocallidis*
347 Blueberry scorch virus (*Carlavirus*)
348 Tomato infectious chlorosis virus (*Crinivirus*)
349 *Tetranychus evansi*
350 *Xanthomonas axonopodis* pv. *poinsetticola*
351 *Eichhornia crassipes*
352 *Polygonum perfoliatum*