

♦ EPPO Standards ♦

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

PM 1/2(21) 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 2012. 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 (2009) *Glossary of phytosanitary terms*. ISPM No. 5 in *International Standards for Phytosanitary Measures*, 27 pp. 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 (2011) *EPPO Standard PM 5/3(5)*. *Decision-support scheme for quarantine pests* from <http://www.eppo.org/QUARANTINE/quarantine.htm>.

OEPP/EPPO (2012) *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 are 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(5-20), corresponding to the modifications decided by EPPO Council since 1991, have been published electronically.

APPENDIX 1 (2012-09)

EPPO A1 LIST OF PESTS RECOMMENDED FOR REGULATION AS QUARANTINE PESTS

PROKARYOTES

Liberibacter africanum & *L. asiaticum* A1/151
Liberibacter solanacearum (Solanaceae haplotypes)
A1/365
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. *allii* A1/353
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
Endocronartium harknessii A1/11
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
Ophiognomonina (= *Sirococcus*) *clavigignenti-juglandacearum* A1/329
Ophiostoma wagneri A1/179
Phaeoramularia angolensis A1/298
Phellinus weirii A1/19
Phoma andigena A1/141
Phyllosticta solitaria A1/20

Phymatotrichopsis omnivora A1/21
Puccinia hemerocallidis A1/346
Puccinia pittieriana A1/155
Septoria lycopersici var. *malagutii* A1/142
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
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

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 anxius A1/362
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
Bactericera cockerelli A1/366
Bactrocera cucumis A1/203
Bactrocera cucurbitae A1/232
Bactrocera dorsalis A1/233
Bactrocera invadens A1/357
Bactrocera minax A1/234
Bactrocera tryoni A1/235
Bactrocera tsuneonis 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 rosaceana A1/208
Conotrachelus nenuphar A1/35
Cydia packardi A1/209
Cydia prunivora A1/36
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 subcrinita A1/358
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
Keiferia lycopersicella A1/367
Leucinodes orbonalis A1/368
Listronotus bonariensis A1/168
Malacosoma americanum A1/276
Malacosoma disstria A1/213
Margarodes prieskaensis A1/214
Margarodes vitis A1/215
Margarodes vredendalensis A1/216
Melanotus communis A1/305
Metamasius hemipterus A1/356
Naupactus leucoloma A1/293
Nemorimyza (Amauromyza) maculosa A1/152
Oligonychus perditus A1/217
Orgyia pseudotsugata A1/218
Pheletes (Limenius) 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
Saperda candida A1/ 359
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
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 dianthicola (*Erwinia chrysanthemi* pv. *dianthicola*) 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. *actinidiae* A2/370
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. *poinsettiae* 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 kamtschaticum A2/18
Cryphonectria parasitica A2/69
Diaporthe vaccinii A2/211
Didymella ligulicola A2/66
Fusarium foetens A2/345
Fusarium oxysporum f.sp. *albedinis* A2/70
Gibberella circinata A2/306
Glomerella gossypii A2/71
Gymnosporangium asiaticum A2/13
Melampsora medusae A2/74
Monilinia fructicola A2/153
Mycosphaerella dearnessii A2/22
Phialophora cinerescens A2/77
Phoma tracheiphila A2/287
Phytophthora fragariae A2/79
Phytophthora lateralis A2/337
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
Pepino mosaic virus A2/369
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
Squash leaf curl virus (*Begomovirus*) A2/224
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
Agrilus planipennis A2/322
Aleurocanthus spiniferus A2/186
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
Dacus ciliatus A2/238
Dendrolimus sibiricus A2/308
Dendrolimus superans A2/330
Diabrotica virgifera A2/199
Drosophila suzukii A2/363
Dryocosmus kuriphilus A2/317
Epitrix cucumeris A2/299

Epitrix similis A2/360
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
Maconellicoccus hirsutus A2/314
Malacosoma parallela A2/320
Megaplatypus mutatus A2/344
Numonia 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
Strobilomya viaria A2/333
Tecia solanivora A2/310
Tetranychus evansi A2/349
Tetropium gracilicorne A2/311
Toxoptera citricida A2/45
Trioza erytrae A2/46
Trogoderma granarium A2/121
Tuta absoluta A2/321
Viteus vitifoliae A2/106
Xylotrechus altaicus A2/312
Xylotrechus namanganensis A2/328

NEMATODES

Aphelenchoides besseyi A2/122
*Bursaphelenchus xylophilus*¹ A2/158
Ditylenchus dipsaci A2/174
Globodera pallida A2/124
Globodera rostochiensis A2/125
Heterodera glycines A2/167
Meloidogyne chitwoodii A2/227
Meloidogyne enterolobii A2/361
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
Heracleum persicum A2/354
Heracleum sosnowskyi A2/355
Hydrocotyle ranunculoides A2/334
Ludwigia peploides & *L. grandiflora* A2/364
Polygonum perfoliatum A2/352
Pueraria lobata A2/341
Solanum elaeagnifolium A2/342

¹ Its non-European vectors in the genus *Monochamus* remain on the EPPO A1 List.

EPPO A1 AND A2 PESTS IN ALPHABETICAL ORDER

<i>Acleris gloverana</i> A1/281	<i>Ceratitis rosa</i> A1/237
<i>Acleris variana</i> A1/32	<i>Ceratocystis fagacearum</i> and its vectors A1/6
<i>Aculops fuchsiae</i> A2/185	<i>Ceratocystis fimbriata</i> f.sp. <i>platani</i> A2/136
<i>Aeolesthes sarta</i> A2/307	<i>Cherry rasp leaf virus</i> (<i>Cheravirus</i>) A1/127
<i>Agrilus anxius</i> A1/362	<i>Choristoneura conflictana</i> A1/205
<i>Agrilus planipennis</i> A2/322	<i>Choristoneura fumiferana</i> A1/206
<i>Aleurocanthus spiniferus</i> A2/186	<i>Choristoneura occidentalis</i> A1/207
<i>Aleurocanthus woglumi</i> A1/103	<i>Choristoneura rosaceana</i> A1/208
<i>Alternaria mali</i> A1/277	<i>Chrysanthemum stem necrosis virus</i> (<i>Tospovirus</i>) A1/313
<i>American plum line pattern virus</i> (<i>Ilarvirus</i>) A1/28	<i>Chrysanthemum stunt viroid</i> (<i>Pospiviroid</i>) A2/92
<i>Anastrepha fraterculus</i> A1/229	<i>Chrysomyxa arctostaphyli</i> A1/8
<i>Anastrepha ludens</i> A1/230	<i>Ciborinia camelliae</i> A2/190
<i>Anastrepha obliqua</i> A1/231	<i>Citrus blight disease</i> A1/278
<i>Anastrepha suspensa</i> A1/200	<i>Citrus leprosis virus</i> A1/284
<i>Andean potato mottle virus</i> (<i>Comovirus</i>) A1/245	<i>Citrus mosaic badnavirus</i> A1/285
<i>Anisogramma anomala</i> A1/201	<i>Citrus tatter leaf virus</i> (<i>Capillovirus</i>) A1/191
<i>Anoplophora chinensis</i> A2/187	<i>Citrus tristeza virus</i> (<i>Closterovirus</i>) A2/93
<i>Anoplophora glabripennis</i> A1/296	<i>Clavibacter michiganensis</i> subsp. <i>insidiosus</i> A2/49
<i>Anthonomus bisignifer</i> A1/189	<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> A2/50
<i>Anthonomus eugenii</i> A1/202	<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> A2/51
<i>Anthonomus grandis</i> A1/34	<i>Coconut cadang-cadang viroid</i> (<i>Cocadviroid</i>) A1/192
<i>Anthonomus signatus</i> A1/164	<i>Conotrachelus nenuphar</i> A1/35
<i>Aphelenchoides besseyi</i> A2/122	<i>Crassula helmsii</i> A2/340
<i>Apiosporina morbosus</i> A1/10	<i>Cronartium coleosporioides</i> A1/248
<i>Arceuthobium</i> spp. (non-European) A1/24	<i>Cronartium comandrae</i> A1/249
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EPPO A1 AND A2 PESTS IN NUMERICAL ORDER

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

* 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.

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

- 299 *Epitrix cucumeris*
- 300 *Rhizoecus hibisci*
- 301 *Gonipterus gibberus*
- 302 *Bactrocera zonata*
- 303 *Diabrotica speciosa*
- 304 *Pheletes (Limonium) 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 *Ophiognomonina (=Sirococcus) clavigignenti-juglandacearum* A1/329
- 330 *Dendrolimus superans*
- 331 *Lymantria mathura*
- 332 *Rhynchophorus palmarum*
- 333 *Strobilomya viaria*
- 334 *Hydrocotyle ranunculoides*
- 335 formerly *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*
- 353 *Xanthomonas axonopodis* pv. *allii*
- 354 *Heracleum persicum*
- 355 *Heracleum sosnowskyi*
- 356 *Metamasius hemipterus*
- 357 *Bactrocera invadens*
- 358 *Epitrix subcrinita*
- 359 *Saperda candida*
- 360 *Epitrix similis*
- 361 *Meloidogyne enterolobii*
- 362 *Agrilus anxius*
- 363 *Drosophila suzukii*
- 364 *Ludwigia peploides* & *L. grandiflora*
- 365 *Liberibacter solanacearum* (Solanaceae haplotypes)
- 366 *Bactericera cockerelli*
- 367 *Keiferia lycopersicella*
- 368 *Leucinodes orbonalis*
- 369 Pepino mosaic virus
- 370 *Pseudomonas syringae* pv. *actinidiae*