

# ◆ EPPO Standards ◆

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

PM 1/2(25) 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 2016. 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 (2016) *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 an 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 Plants 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 to current one), corresponding to the modifications decided by EPPO Council since 1991, have been published electronically.

## APPENDIX 1 (2016-09)

### EPPO A1 LIST OF PESTS RECOMMENDED FOR REGULATION AS QUARANTINE PESTS

#### PROKARYOTES

*Acidovorax citrulli* A1/379  
'*Candidatus* Liberibacter africanum' & 'Ca. L. asiaticum'<sup>1</sup> A1/151  
'*Candidatus* Liberibacter solanacearum' (Solanaceae haplotypes) A1/365  
'*Candidatus* Phytoplasma americanum' (Potato purple-top wilt) A1/128  
'*Candidatus* Phytoplasma pruni' (Western X-disease) A1/140  
'*Candidatus* Phytoplasma ulmi' (Elm phloem necrosis) A1/26  
Coconut lethal yellowing phytoplasma (Palm lethal yellowing) A1/159  
Peach rosette phytoplasma A1/138  
Peach yellows phytoplasma A1/139  
*Xanthomonas axonopodis* pv. *allii* A1/353  
*Xanthomonas citri* pv. *citri* A1/1  
*Xanthomonas fuscans* subsp. *aurantifolii* A1/397  
*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 populorum* A1/17  
*Endocronartium harknessii* A1/11  
*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 laricis-leptolepidis* A1/16

*Ophiognomonium clavignenti-juglandacearum* A1/329  
*Ophiostoma wagneri* A1/179  
*Phellinus weirii* A1/19  
*Phyllosticta citricarpa* A1/194  
*Phyllosticta solitaria* A1/20  
*Phymatotrichopsis omnivora* A1/21  
*Pseudocercospora angolensis* A1/298  
*Puccinia hemerocallidis* A1/346  
*Puccinia pittieriana* A1/155  
*Septoria lycopersici* var. *malagutii* A1/142  
*Stagonosporopsis andigena* A1/141  
*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 latent virus* (Tymovirus) A1/244  
*Andean potato mild mosaic virus* (Tymovirus) A1/384  
*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 tatter leaf virus (Capillovirus) A1/191  
*Citrus yellow mosaic virus* (Badnavirus) A1/285  
*Coconut cadang-cadang viroid* (Cocadviroid) A1/192  
*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

<sup>1</sup> A third species, '*Candidatus* Liberibacter americanum' has been found in association with Huanglongbing

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  
*Apriona cinerea* A1/373  
*Apriona germari* A1/371  
*Apriona rugicollis* A1/372  
*Aromia bungii* A1/380  
*Bactericera cockerelli* A1/366  
*Bactrocera dorsalis* A1/233  
*Bactrocera invadens* A1/357  
*Bactrocera minax* A1/234  
*Bactrocera tryoni* A1/235  
*Bactrocera tsuneonis* A1/236  
*Blitopertha orientalis* A1/33  
*Ceratitidis rosa* A1/237  
*Choristoneura conflictana* A1/205  
*Choristoneura freemani* (= *C. occidentalis* Freeman) A1/207  
*Choristoneura fumiferana* A1/206  
*Choristoneura rosaceana* A1/208  
*Conotrachelus nenuphar* A1/35  
*Cydia packardii* 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 vitripennis* 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 africensis* A1/385  
*Leucinodes orbonalis* A1/368  
*Leucinodes pseudorbonalis* A1/386  
*Leucinodes rimavallis* A1/387  
*Listronotus bonariensis* A1/168  
*Lycorma delicatula* A1/396  
*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 maculosa* A1/152  
*Neoleucinodes elegantalis* A1/381  
*Oemona hirta* A1/374  
*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  
*Rhynchophorus palmarum* A1/332  
*Ripersiella hibisci* A1/300  
*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

*Zeugodacus (Bactrocera) cucumis* A1/203

*Zeugodacus (Bactrocera) cucurbitae* A1/232

## EPPO A2 LIST OF PESTS RECOMMENDED FOR REGULATION AS QUARANTINE PESTS

### **PROKARYOTES**

*Burkholderia caryophylli* A2/55  
'*Candidatus Phytoplasma mali*' (Apple proliferation) A2/87  
'*Candidatus Phytoplasma pyri*' (Pear decline) A2/95  
'*Candidatus Phytoplasma solani*' (Stolbur) A2/100  
'*Candidatus Phytoplasma vitis*' (Grapevine flavescence dorée) A2/94  
*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  
*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. *poinsetticola* A2/350  
*Xanthomonas euvesicatoria* A2/390  
*Xanthomonas fragariae* A2/135  
*Xanthomonas gardneri* A2/391  
*Xanthomonas perforans* A2/392  
*Xanthomonas translucens* pv. *translucens* A2/183  
*Xanthomonas vesicatoria* A2/157  
*Xylophilus ampelinus* A2/133

### **FUNGI**

*Botryosphaeria larincola* A2/12  
*Ceratocystis platani* A2/136  
*Ciborinia camelliae* A2/190  
*Cronartium kamschaticum* A2/18  
*Cryphonectria parasitica* A2/69  
*Diaporthe vaccinii* A2/211  
*Fusarium circinatum* A2/306  
*Fusarium foetens* A2/345  
*Fusarium oxysporum* f.sp. *albedinis* A2/70  
*Geosmithia morbida* & *Pityophthorus juglandis* A2/388  
*Glomerella gossypii* A2/71  
*Gymnosporangium asiaticum* A2/13  
*Heterobasidium irregulare* A2/389  
*Lecanosticta acicola* A2/22  
*Melampsora medusae* A2/74  
*Monilinia fructicola* A2/153

*Phialophora cinerescens* A2/77  
*Phytophthora fragariae* & *Phytophthora rubi* A2/79  
*Phytophthora kernoviae* A2/375  
*Phytophthora lateralis* A2/337  
*Phytophthora ramorum* A2/376  
*Plenodomus tracheiphilus* A2/287  
*Puccinia horiana* A2/80  
*Stagonosporopsis chrysanthemi* A2/66  
*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* (*Potexvirus*) 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 vein banding 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  
*Bactrocera zonata* A2/302  
*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 virgifera*<sup>1</sup> A2/199  
*Drosophila suzukii* A2/363  
*Dryocosmus kuriphilus* A2/317  
*Epitrix cucumeris* A2/299  
*Epitrix papa* A2/360  
*Erschoviella musculana* A2/318  
*Eutetranychus orientalis* A2/288  
*Euwallacea fornicatus sensu lato* & *Fusarium euwallaceae* A2/398  
*Frankliniella occidentalis* A2/177  
*Gonipterus scutellatus* A2/38  
*Helicoverpa armigera* A2/110  
*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 pyrivorella* A2/184  
*Opogona sacchari* A2/154  
*Paysandisia archon* A2/338  
*Polygraphus proximus* A2/382  
*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  
*Thaumatotibia leucotreta* A2/377  
*Toxoptera citricidus* A2/45  
*Trichoferus campestris* A2/343  
*Trioza erytraeae* 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*<sup>2</sup> A2/158  
*Ditylenchus dipsaci* A2/174  
*Globodera pallida* A2/124  
*Globodera rostochiensis* A2/125  
*Heterodera glycines* A2/167  
*Meloidogyne chitwoodi* A2/227  
*Meloidogyne enterolobii* A2/361  
*Meloidogyne fallax* A2/295  
*Radopholus similis* (not attacking citrus) A2/126  
*Xiphinema rivesi* A2/262

#### INVASIVE PLANTS

*Alternanthera philoxeroides* A2/393  
*Baccharis halimifolia* A2/378  
*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  
*Microstegium vimineum* A2/394  
*Myriophyllum heterophyllum* A2/395  
*Parthenium hysterophorus* A2/383  
*Polygonum perfoliatum* A2/352  
*Pueraria montana* var. *lobata* A2/341  
*Solanum elaeagnifolium* A2/342

<sup>1</sup> *Diabrotica virgifera zea* remains on the EPPO A1 List

<sup>2</sup> Its non-European vectors in the genus *Monochamus* remain on the EPPO A1 List.

## EPPO A1 AND A2 PESTS IN ALPHABETICAL ORDER

- Acidovorax citrulli* A1/379  
*Acleris gloverana* A1/281  
*Acleris variana* A1/32  
*Aculops fuchsiae* A2/185  
*Aeolesthes sarta* A2/307  
*Agrilus anxius* A1/362  
*Agrilus planipennis* A2/322  
*Aleurocanthus spiniferus* A2/186  
*Aleurocanthus woglumi* A1/103  
*Alternanthera philoxeroides* A2/393  
*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 latent virus (Tymovirus)* A1/244  
*Andean potato mild mosaic virus (Tymovirus)* A1/384  
*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 morbosus* A1/10  
*Apriona cinerea* A1/373  
*Apriona germari* A1/371  
*Apriona rugicollis* A1/372  
*Arceuthobium* spp. (non-European) A1/24  
*Aromia bungii* A1/380  
*Atropellis pinicola* A1/5  
*Atropellis piniphila* A1/280  
*Baccharis halimifolia* A2/378  
*Bactericera cockerelli* A1/366  
*Bactrocera dorsalis* A1/233  
*Bactrocera invadens* A1/357  
*Bactrocera minax* A1/234  
*Bactrocera tryoni* A1/235  
*Bactrocera tsuneonis* A1/236  
*Bactrocera zonata* A2/302  
*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* A2/158  
*Cacoecimorpha pronubana* A2/104  
*Cacyreus marshalli* A2/181  
‘*Candidatus Liberibacter africanum*’ & ‘*Ca. L. asiaticum*’ A1/151  
‘*Candidatus Liberibacter solanacearum*’ (Solanaceae haplotypes) A1/365  
‘*Candidatus Phytoplasma americanum*’ (Potato purple-top wilt) A1/128  
‘*Candidatus Phytoplasma americanum*’ (Western X-disease) A1/140  
‘*Candidatus Phytoplasma mali*’ (Apple proliferation) A2/87  
‘*Candidatus Phytoplasma pyri*’ (Pear decline) A2/95  
‘*Candidatus Phytoplasma solani*’ (Stolbur) A2/100  
‘*Candidatus Phytoplasma ulmi*’ (Elm phloem necrosis) A1/26  
‘*Candidatus Phytoplasma vitis* (Grapevine flavescence dorée) A2/94  
*Carposina sasakii* A2/163  
*Ceratitidis capitata* A2/105  
*Ceratitidis rosa* A1/237  
*Ceratocystis fagacearum* and its vectors A1/6  
*Ceratocystis platani* A2/136  
*Cherry rasp leaf virus (Cheravirus)* A1/127  
*Choristoneura conflictana* A1/205  
*Choristoneura freemani* (= *C. occidentalis* Freeman) A1/207  
*Choristoneura fumiferana* A1/206  
*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 tatter leaf virus (Capillovirus)* A1/191  
*Citrus tristeza virus (Closterovirus)* A2/93  
*Citrus yellow mosaic virus (Badnavirus)* A1/285  
*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  
*Coconut lethal yellowing phytoplasma* (Palm lethal yellowing) A1/159  
*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* A2/238  
*Davidiella populorum* 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  
*Diabrotica barberi* A1/210  
*Diabrotica speciosa* A1/303  
*Diabrotica undecimpunctata* A1/292  
*Diabrotica virgifera virgifera* A2/199  
*Diaphorina citri* A1/37  
*Diaporthe vaccinii* A2/211  
*Dickeya (Erwinia) chrysanthemi* A2/53  
*Ditylenchus dipsaci* A2/174  
*Drosophila suzukii* A2/363  
*Dryocoetes confusus* A1/268  
*Dryocosmus kuriphilus* A2/317  
*Eichhornia crassipes* A2/351  
*Endocronartium harknessii* A1/11  
*Epitrix cucumeris* A2/299  
*Epitrix papa* A2/360  
*Epitrix subcrinita* A1/358  
*Epitrix tuberis* A1/165  
*Erschoviella musculana* A2/318  
*Erwinia amylovora* A2/52  
*Eutetranychus orientalis* A2/288  
*Euwallacea fornicatus sensu lato & Fusarium euwallaceae* A2/398  
*Frankliniella occidentalis* A2/177  
*Fusarium circinatum* A2/306  
*Fusarium foetens* A2/345  
*Fusarium oxysporum* f.sp. *albedinis* A2/70  
*Geosmithia morbida & Pityophthorus juglandis* A2/388  
*Globodera pallida* A2/124  
*Globodera rostochiensis* A2/125  
*Glomerella gossypii* A2/71  
*Gnathotrichus sulcatus* A1/269  
*Gonipterus gibberus* A1/301  
*Gonipterus scutellatus* A2/38  
*Gymnosporangium asiaticum* A2/13  
*Gymnosporangium clavipes* A1/253  
*Gymnosporangium globosum* A1/254  
*Gymnosporangium juniperi-virginianae* A1/255  
*Gymnosporangium yamadae* A1/257  
*Helicoverpa armigera* A2/110  
*Helicoverpa zea* A1/195  
*Heracleum persicum* A2/354  
*Heracleum sosnowskyi* A2/355  
*Heterobasidion irregulare* A2/389  
*Heterodera glycines* A2/167  
*Heteronychus arator* A1/297  
*Homalodisca vitripennis* A1/336  
*Hydrocotyle ranunculoides* A2/334  
*Impatiens necrotic spot virus (Tospovirus)* A2/291  
*Ips calligraphus* A1/270  
*Ips confusus* A1/271  
*Ips grandicollis* A1/272  
*Ips hauseri* A2/326  
*Ips lecontei* A1/273  
*Ips pini* A1/274  
*Ips plastographus* A1/275  
*Ips subelongatus* A2/325  
*Keiferia lycopersicella* A1/367  
*Lecanosticta acicola* A2/22  
*Lepidosaphes ussuriensis* A2/319  
*Leptinotarsa decemlineata* A2/113  
*Lettuce infectious yellows crinivirus* A1/212  
*Leucinodes africensis* A1/385  
*Leucinodes orbonalis* A1/368  
*Leucinodes pseudorbonalis* A1/386  
*Leucinodes rimavallis* A1/387  
*Liriomyza huidobrensis* A2/283  
*Liriomyza sativae* A2/282  
*Liriomyza trifolii* A2/131  
*Listronotus bonariensis* A1/168  
*Lopholeucaspis japonica* A2/289  
*Ludwigia peploides & L. grandiflora* A2/364  
*Lycorma delicatula* A1/396  
*Lymantria mathura* A2/331  
*Maconellicoccus hirsutus* A2/314  
*Malacosoma americanum* A1/276  
*Malacosoma distria* A1/213  
*Malacosoma parallela* A2/320  
*Margarodes prieskaensis* A1/214  
*Margarodes vitis* A1/215  
*Margarodes vredendalensis* A1/216  
*Megaplatypus mutatus* A2/344  
*Melampsora farlowii* A1/15  
*Melampsora medusae* A2/74  
*Melanotus communis* A1/305  
*Meloidogyne chitwoodi* A2/227  
*Meloidogyne enterolobii* A2/361

*Meloidogyne fallax* A2/295  
*Metamasius hemipterus* A1/356  
*Microstegium vimineum* A2/394  
*Monilinia fructicola* A2/153  
*Mycosphaerella gibsonii* A1/7  
*Mycosphaerella laricis-leptolepidis* A1/16  
*Myriophyllum heterophyllum* A2/395  
*Nacobbus aberrans* A1/144  
*Naupactus leucoloma* A1/293  
*Nemorimyza maculosa* A1/152  
*Neoleucinodes elegantalis* A1/381  
*Numonia pyrivorella* A2/184  
*Oemona hirta* A1/374  
*Oligonychus perditus* A1/217  
*Ophiognomonina clavignenti-juglandacearum* A1/329  
*Ophiostoma wagneri* A1/179  
*Opogona sacchari* A2/154  
*Orgyia pseudotsugata* A1/218  
*Pantoea stewartii* A2/54  
*Parthenium hysterophorus* A2/383  
*Paysandisia archon* A2/338  
*Peach mosaic virus (Trichovirus)* A1/27  
*Peach rosette mosaic virus (Nepovirus)* A1/219  
*Peach rosette phytoplasma* A1/138  
*Peach yellows phytoplasma* A1/139  
*Pepino mosaic virus (Potexvirus)* A2/369  
*Pheletes (Limonius) californicus* A1/304  
*Phellinus weirii* A1/19  
*Phialophora cinerescens* A2/77  
*Phyllosticta citricarpa* A1/194  
*Phyllosticta solitaria* A1/20  
*Phymatotrichopsis omnivora* A1/21  
*Phytophthora fragariae* A2/79  
*Phytophthora kernoviae* A2/375  
*Phytophthora lateralis* A2/337  
*Phytophthora ramorum* A2/376  
*Phytophthora rubi* A2/79  
*Pissodes nemorensis* A1/44  
*Pissodes strobi* A1/258  
*Pissodes terminalis* A1/259  
*Plenodomus tracheiphilus* A2/287  
*Plum pox virus (Potyvirus)* A2/96  
*Polygonum perfoliatum* A2/352  
*Polygraphus proximus* A2/382  
*Popillia japonica* A2/40  
*Potato black ringspot virus (Nepovirus)* A1/246  
*Potato spindle tuber viroid (Pospiviroid)* A2/97  
*Potato virus T* A1/247  
*Potato yellow dwarf virus (Nucleorhabdovirus)* A1/29  
*Potato yellow vein virus (Crinivirus)* A1/30  
*Potato yellowing virus* A1/220  
*Premnotrypes latithorax, P. suturicallus & P vorax*  
A1/143  
*Pseudocercospora angolensis* A1/298  
*Pseudomonas syringae* pv. *actinidiae* A2/370  
*Pseudomonas syringae* pv. *persicae* A2/145  
*Puccinia hemerocallidis* A1/346  
*Puccinia horiana* A2/80  
*Puccinia pittieriana* A1/155  
*Pueraria montana* var. *lobata* A2/341  
*Quadraspidotus perniciosus* A2/117  
*Radopholus similis* (attacking citrus, formerly *R. citrophilus*) A1/161  
*Radopholus similis* (not attacking citrus) A2/126  
*Ralstonia solanacearum* A2/58  
*Raspberry leaf curl virus (Nepovirus)* A1/31  
*Raspberry ringspot virus (Nepovirus)* A2/98  
*Rhagoletis cingulata* A2/239  
*Rhagoletis fausta* A1/241  
*Rhagoletis indifferens* A1/242  
*Rhagoletis mendax* A1/243  
*Rhagoletis pomonella* A1/41  
*Rhynchophorus ferrugineus* A2/339  
*Rhynchophorus palmarum* A1/332  
*Ripersiella hibisci* A1/300  
*Saperda candida* A1/ 359  
*Satsuma dwarf virus (Sadwavirus)* A2/279  
*Scirtothrips aurantii* A1/221  
*Scirtothrips citri* A1/222  
*Scirtothrips dorsalis* A2/223  
*Scolytus morawitzi* A2/309  
*Septoria lycopersici* var. *malagutii* A1/142  
*Sirex ermak* A2/327  
*Solanum elaeagnifolium* A2/342  
*Spodoptera eridania* A1/196  
*Spodoptera frugiperda* A1/197  
*Spodoptera littoralis* A2/120  
*Spodoptera litura* A1/42  
*Squash leaf curl virus (Begomovirus)* A2/224  
*Stagonosporopsis andigena* A1/141  
*Stagonosporopsis chrysanthemi* A2/66  
*Stegophora ulmea* A1/315  
*Stenocarpella macrospora* A2/67  
*Stenocarpella maydis* A2/68  
*Sternochetus mangiferae* A1/286  
*Strawberry latent C virus* A1/129  
*Strawberry vein banding virus (Caulimovirus)* A2/101  
*Strobilomyia viaria* A2/333  
*Synchytrium endobioticum* A2/82  
*Tecia solanivora* A2/310  
*Tetranychus evansi* A2/349  
*Tetropium gracilicorne* A2/311  
*Thaumatotibia leucotreta* A2/377  
*Thecaphora solani* A1/4  
*Thrips palmi* A1/175  
*Tilletia indica* A1/23  
*Tobacco ringspot virus (Nepovirus)* A2/228  
*Tomato chlorosis virus (Crinivirus)* A2/323

*Tomato infectious chlorosis virus (Crinivirus)* A2/348  
*Tomato mottle virus (Begomovirus)* (and other American Geminiviridae of capsicum and tomato) A1/225  
*Tomato ringspot virus (Nepovirus)* A2/102  
*Tomato spotted wilt virus (Tospovirus)* A2/290  
*Tomato yellow leaf curl virus (Begomovirus)* and related viruses A2/182  
*Toxoptera citricidus* A2/45  
*Trichoferus campestris* A2/343  
*Trioza erytrae* A2/46  
*Trogoderma granarium* A2/121  
*Tuta absoluta* A2/321  
*Unaspis citri* A1/226  
*Verticillium albo-atrum* & *V. dahliae* (hop-infecting strains) A2/85  
*Viteus vitifoliae* A2/106  
*Watermelon silver mottle virus (Tospovirus)* A1/294  
*Xanthomonas arboricola* pv. *corylina* A2/134  
*Xanthomonas arboricola* pv. *pruni* A2/62  
*Xanthomonas axonopodis* pv. *allii* A1/353  
*Xanthomonas axonopodis* pv. *dieffenbachiae* A2/180  
*Xanthomonas axonopodis* pv. *phaseoli* A2/60  
*Xanthomonas axonopodis* pv. *poinsettiiicola* A2/350  
*Xanthomonas citri* pv. *citri* A1/1  
*Xanthomonas euvesicatoria* A2/390  
*Xanthomonas fragariae* A2/135  
*Xanthomonas fuscans* subsp. *aurantifolii* A1/397  
*Xanthomonas gardneri* A2/391  
*Xanthomonas oryzae* pv. *oryzae* A1/2  
*Xanthomonas oryzae* pv. *oryzicola* A1/3  
*Xanthomonas perforans* A2/392  
*Xanthomonas translucens* pv. *translucens* A2/183  
*Xanthomonas vesicatoria* A2/157  
*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  
*Xylotrachus altaicus* A2/312  
*Xylotrachus namanganensis* A2/328  
*Zeugodacus (Bactrocera) cucumis* A1/203  
*Zeugodacus (Bactrocera) cucurbitae* A1/232

## EPPO A1 AND A2 PESTS IN NUMERICAL ORDER

- |    |  |    |   |
|----|--|----|---|
| 1  | <i>Xanthomonas citri</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 arctostaphyli</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>Hamasporea 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 populorum</i>                                  | 63 | formerly <i>Ophiostoma ulmi</i>   |
| 18 | <i>Cronartium kamtschaticum</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>Stagonosporopsis chrysanthemi</i>  |
| 21 | <i>Phymatotrichopsis omnivora</i>                            | 67 | <i>Stenocarpella macrospora</i>   |
| 22 | <i>Lecanosticta acicola</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>Candidatus Phytoplasma ulmi</i> ’ (Elm phloem necrosis) | 72 | formerly <i>Hypoxylon 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> & <i>Phytophthora rubi</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>Candidatus 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 citricidus</i>                                  | 91 | formerly Cherry necrotic rusty mottle disease                                     |
| 46 | <i>Trioza erytrae</i>  | 92 | <i>Chrysanthemum stunt viroid</i> ( <i>Pospiviroid</i> )                          |
|    |  | 93 | <i>Citrus tristeza virus</i> ( <i>Closterovirus</i> )                             |
|    |  | 94 | ‘ <i>Candidatus Phytoplasma vitis</i> ’ (Grapevine flavescence dorée)             |

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\* *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 'Candidatus 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 'Candidatus Phytoplasma solani' (Stolbur)
- 101 Strawberry vein banding 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 'Candidatus Phytoplasma americanum' (Potato purple-top wilt)
- 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 platani*
- 137 formerly peach phony bacterium, now = no. 166
- 138 Peach rosette phytoplasma
- 139 Peach yellows phytoplasma
- 140 'Candidatus Phytoplasma pruni' (Western X-disease)
- 141 *Stagonosporopsis 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 'Candidatus Liberibacter africanum' & 'Ca. L. asiaticum'
- 152 *Nemorimyza maculosa*
- 153 *Monilinia fructicola*
- 154 *Opogona sacchari*
- 155 *Puccinia pittieriana*
- 156 formerly *Phytophthora infestans* mating type A2
- 157 *Xanthomonas vesicatoria*
- 158 *Bursaphelenchus xylophilus*
- 159 Coconut lethal yellowing phytoplasma (Palm lethal yellowing)
- 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 pyrivorella*
- 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 *Phyllosticta citricarpa*  
195 *Helicoverpa zea*  
196 *Spodoptera eridania*  
197 *Spodoptera frugiperda*  
198 *Blueberry leaf mottle virus (Nepovirus)*  
199 *Diabrotica virgifera virgifera*  
200 *Anastrepha suspensa*  
201 *Anisogramma anomala*  
202 *Anthonomus eugeni*  
203 *Zeugodacus (Bactrocera) cucumis*  
204 *Bean golden mosaic virus (Begomovirus)*  
205 *Choristoneura conflictana*  
206 *Choristoneura fumiferana*  
207 *Choristoneura freemani* (= *C. occidentalis* Freeman)  
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 chitwoodi*  
228 *Tobacco ringspot virus (Nepovirus)*  
229 *Anastrepha fraterculus*  
230 *Anastrepha ludens*  
231 *Anastrepha obliqua*  
232 *Zeugodacus (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 *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 brevicornis*  
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 yellow mosaic virus (Badnavirus)*  
286 *Sternochetus mangiferae*  
287 *Plenodomus tracheiphilus*  
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 *Pseudocercospora angolensis*  
299 *Epitrix cucumeris*



- 300 *Ripersiella hibisci*  
301 *Gonipterus gibberus*  
302 *Bactrocera zonata*  
303 *Diabrotica speciosa*  
304 *Pheletes (Limonius) californicus*  
305 *Melanotus communis*  
306 *Fusarium circinatum*  
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 *Ophiognomonia clavigignenti-juglandacearum*  
330 *Dendrolimus superans*  
331 *Lymantria mathura*  
332 *Rhynchophorus palmarum*  
333 *Strobilomyia viaria*  
334 *Hydrocotyle ranunculoides*  
335 formerly *Lysichiton americanus*  
336 *Homalodisca vitripennis*  
337 *Phytophthora lateralis*  
338 *Paysandisia archon*  
339 *Rhynchophorus ferrugineus*  
340 *Crassula helmsii*  
341 *Pueraria montana* var. *lobata*  
342 *Solanum elaeagnifolium*  
343 *Trichoferus campestris*  
344 *Megaplatus 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 papa*  
361 *Meloidogyne enterolobii*  
362 *Agrilus anxius*  
363 *Drosophila suzukii*  
364 *Ludwigia peploides* & *L. grandiflora*  
365 'Candidatus *Liberibacter solanacearum*' (Solanaceae haplotypes)  
366 *Bactericera cockerelli*  
367 *Keiferia lycopersicella*  
368 *Leucinodes orbonalis*  
369 Pepino mosaic virus (*Potexvirus*)  
370 *Pseudomonas syringae* pv. *actinidiae*  
371 *Apriona germari*  
372 *Apriona rugicollis*  
373 *Apriona cinerea*  
374 *Oemona hirta*  
375 *Phytophthora kernoviae*  
376 *Phytophthora ramorum*  
377 *Thaumatotibia leucotreta*  
378 *Baccharis halimifolia*  
379 *Acidovorax citrulli*  
380 *Aromia bungii*  
381 *Neoleucinodes elegantalis*  
382 *Polygraphus proximus*  
383 *Parthenium hysterophorus*  
384 Andean potato mild mosaic virus (*Tymovirus*)  
385 *Leucinodes africensis*  
386 *Leucinodes pseudorbonalis*  
387 *Leucinodes rimavallis*  
388 *Geosmithia morbida* & *Pityophthorus juglandis*  
389 *Heterobasidion irregulare*  
390 *Xanthomonas euvesicatoria*  
391 *Xanthomonas gardneri*  
392 *Xanthomonas perforans*  
393 *Alternanthera philoxeroides*  
394 *Microstegium vimineum*  
395 *Myriophyllum heterophyllum*  
396 *Lycorma delicatula*  
397 *Xanthomonas fuscans* subsp. *aurantifolii*  
398 *Euwallacea fornicatus sensu lato* & *Fusarium euwallaceae*