

# ◆ **EPPO Standards** ◆

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

**PM 1/2(29) English**



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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 2020. In the terms of Article II of the IPPC, it is a Regional Standard for EPPO Member Government Countries<sup>1</sup>.

## REVIEW

EPPO Standards are subject to periodic review and amendment. This standard is usually reviewed every year.

## AMENDMENT RECORD

Amendments will be issued as necessary, numbered and dated.

## DISTRIBUTION

At the difference with other EPPO Standards, the EPPO A1 and A2 lists are not published in the EPPO Bulletin but are available only from the EPPO website and the EPPO Global Database.

[https://www.eppo.int/ACTIVITIES/plant\\_quarantine/A1\\_list](https://www.eppo.int/ACTIVITIES/plant_quarantine/A1_list)

[https://www.eppo.int/ACTIVITIES/plant\\_quarantine/A2\\_list](https://www.eppo.int/ACTIVITIES/plant_quarantine/A2_list)

<https://gd.eppo.int/standards/PM1/>

## 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 (2019) *Glossary of phytosanitary terms*. ISPM No. 5 in *International Standards for Phytosanitary Measures*, 35 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 [https://www.eppo.int/RESOURCES/eppo\\_standards/pm5\\_pra](https://www.eppo.int/RESOURCES/eppo_standards/pm5_pra).

OEPP/EPPO (2012) *EPPO Standard PM 5/5(1)*. *Decision-support scheme for an Express Pest Risk Analysis*. *Bulletin OEPP/EPPO Bulletin* **42**(3), 457-462.

OEPP/EPPO (2018) *EPPO Alert List* from: [https://www.eppo.int/ACTIVITIES/plant\\_quarantine/alert\\_list](https://www.eppo.int/ACTIVITIES/plant_quarantine/alert_list)

OEPP/EPPO (2019) Review of EPPO's approach to Pest Risk Analysis (PRA). EPPO Technical Document ([https://www.eppo.int/media/uploaded\\_images/RESOURCES/eppo\\_publications/DT1079\\_PRA\\_review\\_2019.pdf](https://www.eppo.int/media/uploaded_images/RESOURCES/eppo_publications/DT1079_PRA_review_2019.pdf)).

## DEFINITIONS

Quarantine pest (ISPM 5)	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.
EPPO A1 pest	A pest recommended by EPPO to member countries, for regulation as a quarantine pest, and which is not present in the EPPO region.
EPPO A2 pest	A pest recommended by EPPO to member countries, for regulation as a quarantine pest and which is present in the EPPO region.
Regional Plant Protection Organization	An intergovernmental organization with the functions laid down by Article IX of the IPPC.

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<sup>1</sup> Referred to in the EPPO Convention as Member Governments.

## 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 Countries. These recommendations are based on appropriate documentation, and since the 2000s on Pest Risk Analyses (PRAs). This document presents the EPPO A1 and A2 Lists and gives details on their background, development and use.

## REQUIREMENTS

### General description

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).

Notwithstanding the above, it is accepted that certain pests appearing in the A1 and A2 Lists, though of concern to some Member Countries, may not be of concern to all the countries from which they are absent or not widely distributed, 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 (PRA) 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 Countries 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 Country 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*.

Since 2006, a new system has been established and special expert groups have been created to conduct PRAs, called Expert Working Groups (EWG) for PRA. More details about the composition and procedures followed by these EWGs are described in the EPPO Technical Document no. 1079 (2019). PRAs are carried out on pests either proposed by an EPPO Member Country or by the Panel on Phytosanitary Measures (in this case, pests are mainly selected from the EPPO Alert List) or other relevant Panels such as the Panel on Invasive Alien Plants or the Panel on Quarantine Pests for Forestry. The Working Party on Phytosanitary Regulations decides on priorities for PRA, but there is 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 by the Expert Working Groups for PRA, following ISPM 11 and EPPO Standards PM 5/3 *Decision-support scheme for quarantine pests* or PM 5/5 *Express Pest Risk Analysis (mainly since 2015)*. The resulting PRA documents are presented to the Panel on Phytosanitary Measures (or to the Panel on Invasive Alien Plants in the case of a PRA on a plant) which makes appropriate recommendations to the EPPO Working Party on Phytosanitary Regulations on the listing and relevant phytosanitary measures to be adopted. The Working Party on Phytosanitary Regulations decides, after due consideration, whether to recommend to EPPO Council the addition of a given pest to one of the Lists. A pest will be added to the A1 List if it is absent from the EPPO region and to the A2 List if it is present in part of the EPPO region.

#### *Deletion of pests from the A1 or A2 List*

When new information concerning a pest is reviewed by the Panel on Phytosanitary Measures (or the relevant Panels) and leads to the conclusion that the phytosanitary risk has changed and its management as a quarantine 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. The pests removed from the EPPO A1 and A2 Lists are noted as "formerly" listed (see Appendix 1, Pests in numerical order).

#### *Transfer of pests from the A1 to the A2 List*

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. To consider a pest to be present in the EPPO region and consequently transfer this pest to the EPPO A2 List, the following elements should be taken into account: the life cycle of the pest, the

measures being implemented in the country where the pest was detected, the aim of the measures and the prospects of successful eradication. The EPPO Working Party on Phytosanitary Regulations decides, after due consideration, whether to recommend to EPPO Council the transfer of a given pest. The date when a pest was transferred from A1 to A2 List is indicated in EPPO Global Database.

#### *Changes in taxonomy and consequences for the EPPO Lists*

When the preferred name of a pest is changed after its addition to the EPPO A1 and A2 Lists, it is updated accordingly at the next revision of the lists. If the taxonomic revision of a listed species results in splitting it into different species or merging it with others, the categorization of all species concerned is reconsidered by the Panel on Phytosanitary Measures and the Working Party on Phytosanitary Regulations. Whenever possible, the former name of the species is kept as a synonym in EPPO Global Database, so that searches can still be made on that name.

#### *EPPO A1 and A2 Lists*

The detailed contents of the EPPO A1 and A2 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 on EPPO website and the EPPO Global Database.

## APPENDIX 1 (2020-09)

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

#### BACTERIA AND PHYTOPLASMAS

*Acidovorax citrulli* A1/379  
'*Candidatus* Liberibacter africanus' & 'Ca. L. asiaticus'<sup>1</sup> A1/151  
'*Candidatus* Liberibacter solanacearum' (Solanaceae haplotypes) A1/365  
'*Candidatus* Phytoplasma americanum' (Potato purple-top wilt) A1/128  
'*Candidatus* Phytoplasma phoenicium' (Almond witches' broom) A1/399  
'*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  
*Ralstonia syzygii* A1/400  
*Xanthomonas citri* subsp. *aurantifolii* A1/397  
*Xanthomonas citri* subsp. *citri* A1/1  
*Xanthomonas euvesicatoria* pv. *allii* A1/353  
*Xanthomonas oryzae* pv. *oryzae* A1/2  
*Xanthomonas oryzae* pv. *oryzicola* A1/3

#### FUNGI

*Alternaria mali* A1/277  
*Anisogramma anomala* A1/201  
*Apiosporina morbosa* A1/10  
*Atropellis pinicola* A1/5  
*Atropellis piniphila* A1/280  
*Bretziella fagacearum* and its vectors A1/6  
    *Pseudopityophthorus minutissimus*  
    *Pseudopityophthorus pruinosis*  
*Cronartium coleosporioides* A1/248  
*Cronartium comandrae* A1/249  
*Cronartium comptoniae* A1/250  
*Cronartium himalayense* A1/251  
*Cronartium quercuum* A1/252  
*Gymnosporangium clavipes* A1/253  
*Gymnosporangium globosum* A1/254  
*Gymnosporangium juniperi-virginianae* A1/255  
*Gymnosporangium yamadai* A1/257  
*Ophiognomonia clavignenti-juglandacearum* A1/329  
*Ophiostoma wageneri* A1/179  
*Phyllosticta citricarpa* A1/194  
*Pseudocercospora angolensis* A1/298  
*Pseudocercospora pini-densiflorae* (= *Mycosphaerella gibsonii*) A1/7  
*Puccinia pittieriana* A1/155

*Septoria malagutii* A1/142  
*Stagonosporopsis andigena* A1/141  
*Stagonosporopsis crystalliniformis* A1/435  
*Stegophora ulmea* A1/315  
*Melampsora farlowii* A1/15  
*Mycodiella* (= *Mycosphaerella*) *laricis-leptolepidis* A1/16  
*Sphaerulina musiva* (*Davidiella populorum*) A1/17  
*Coniferiporia* (*Phellinus*) *weirii* A1/19  
*Phyllosticta solitaria* A1/20  
*Phymatotrichopsis omnivora* A1/21  
*Tilletia indica* A1/23  
*Thecaphora solani* A1/4  
*Chrysomyxa arctostaphyli* A1/8  
*Cronartium fusiforme* A1/9  
*Cronartium harknessii* A1/11

#### VIRUSES AND VIRUS-LIKE ORGANISMS

*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* (*Orthotospovirus*) 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  
*Raspberry leaf curl virus* (*Nepovirus*) A1/31  
*Rose rosette emaravirus* A1/415  
Strawberry latent C virus A1/129  
*Tomato mottle virus* (*Begomovirus* - and other American Geminiviridae of capsicum and tomato) A1/225  
*Watermelon silver mottle virus* (*Orthotospovirus*) A1/294

#### INSECTS AND MITES

*Acleris gloverana* A1/281  
*Acleris variana* A1/32  
*Agrilus anxius* A1/362  
*Aleurocanthus woglumi* A1/103

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

*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 latifrons* A1/404  
*Bactrocera minax* A1/234  
*Bactrocera tryoni* A1/235  
*Bactrocera tsuneonis* A1/236  
*Blitopertha orientalis* A1/33  
*Ceratitidis rosa* A1/237  
*Ceratothripoides brunneus* A1/405  
*Ceratothripoides claratris* A1/406  
*Choristoneura conflictana* A1/205  
*Choristoneura freemani* (= *C. occidentalis* Freeman) A1/207  
*Choristoneura fumiferana* A1/206  
*Choristoneura rosaceana* A1/208  
*Conotrachelus nenuphar* A1/35  
*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  
*Diabrotica virgifera zea* A1/199  
*Diaphorina citri* A1/37  
*Dryocoetes confusus* A1/268  
*Epitrix subcrinita* A1/358  
*Epitrix tuberis* A1/165  
*Euphranta canadensis* A1/41  
*Euphranta japonica* A1/41  
*Gnathotrichus sulcatus* A1/269  
*Gonipterus gibberus* A1/301  
*Grapholita (Cydia) packardi* A1/209  
*Grapholita (Cydia) prunivora* A1/36  
*Gymnandrosoma aurantianum* A1/433  
*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  
*Massicus raddei* A1/414  
*Melanotus communis* A1/305  
*Metamasius hemipterus* A1/356  
*Naupactus leucoloma* A1/293  
*Naupactus xanthographus* A1/434  
*Nemorimyza maculosa* A1/152  
*Neoleucinodes elegantalis* A1/381  
*Oemona hirta* A1/374  
*Oligonychus perditus* A1/217  
*Orgyia pseudotsugata* A1/218  
*Pheletes (Limoniis) californicus* A1/304  
*Phyllocoptes fructiphilus* (vector of *Rose rosette emaravirus*) A1/416  
*Pissodes nemorensis* A1/44  
*Pissodes strobi* A1/258  
*Pissodes terminalis* A1/259  
*Premnotrypes latithorax*, *P. suturicallus* & *P. vorax* A1/143  
*Prodiplosis longifila* A1/407  
*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

## **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

## **GASTROPODA**

*Pomacea canaliculata* A1/418

## **PARASITIC AND INVASIVE 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*

*Cortaderia jubata* A1/422

*Lespedeza cuneata* A1/426

*Lygodium japonicum* A1/427

*Triadica sebifera* A1/429

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

### **BACTERIA AND PHYTOPLASMAS**

*Paraburkholderia caryophylli* A2/55  
'*Candidatus* Phytoplasma mali' (Apple proliferation) A2/87  
'*Candidatus* Phytoplasma pyri' (Pear decline) A2/95  
'*Candidatus* Phytoplasma solani' (Stolbur) A2/100  
*Clavibacter michiganensis* subsp. *insidiosus* A2/49  
*Clavibacter michiganensis* subsp. *michiganensis* A2/50  
*Clavibacter sepedonicus* A2/51  
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens* A2/48  
*Dickeya dianthicola* (*Erwinia chrysanthemi* pv. *dianthicola*) A2/53  
*Erwinia amylovora* A2/52  
Grapevine flavescence dorée phytoplasma A2/94  
*Pantoea stewartii* A2/54  
*Pseudomonas syringae* pv. *actinidiae* A2/370  
*Pseudomonas syringae* pv. *persicae* A2/145  
*Ralstonia pseudosolanacearum* A2/401  
*Ralstonia solanacearum* A2/58  
*Xanthomonas arboricola* pv. *corylina* A2/134  
*Xanthomonas arboricola* pv. *pruni* A2/62  
*Xanthomonas axonopodis* pv. *poinsettiicola* A2/350  
*Xanthomonas cynarae* pv. *gardneri* A2/391  
*Xanthomonas euvesicatoria* pv. *euvesicatoria* A2/390  
*Xanthomonas euvesicatoria* pv. *perforans* A2/392  
*Xanthomonas fragariae* A2/135  
*Xanthomonas phaseoli* pv. *dieffenbachiae* A2/417  
*Xanthomonas phaseoli* pv. *phaseoli* A2/60  
*Xanthomonas translucens* pv. *translucens* A2/183  
*Xanthomonas vesicatoria* A2/157  
*Xylella fastidiosa* A2/166  
*Xylophilus ampelinus* A2/133

### **FUNGI**

*Botryosphaeria laricina* 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  
*Heterobasidion 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 hemerocallidis* A2/346  
*Puccinia horiana* A2/80  
*Stagonosporopsis chrysanthemi* A2/66  
*Stenocarpella macrospora* A2/67  
*Stenocarpella maydis* A2/68  
*Synchytrium endobioticum* A2/82  
*Thekopsora minima* A2/402  
*Verticillium dahliae* & *Verticillium nonalfalfae* (hop-infecting strains) A2/85

### **VIRUSES AND VIRUS-LIKE ORGANISMS**

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 bark cracking viroid* (*Cocadviroid*) A2/403  
*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* (*Orthospovirus*) 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 brown rugose fruit virus* (*Tobamovirus*) A2/438  
*Tomato chlorosis virus* (*Crinivirus*) A2/323  
*Tomato infectious chlorosis virus* (*Crinivirus*) A2/348  
*Tomato ringspot virus* (*Nepovirus*) A2/102  
*Tomato spotted wilt virus* (*Orthospovirus*) A2/290  
*Tomato yellow leaf curl virus* (*Begomovirus*) and related viruses A2/182

### **INSECTS AND MITES**

*Acrobasis pirivorella* (= *Numonia pyrivorella*) A2/184  
*Aculops fuchsiae* A2/185  
*Agrius bilineatus* A2/430  
*Agrius fleischeri* A2/431  
*Agrius 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  
*Comstockasis perniciosus* (= *Quadraspidiotus perniciosus*) A2/117  
*Dacus ciliatus* A2/238  
*Daktulosphaira vitifoliae* A2/106  
*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  
*Eutetranychus orientalis* A2/288  
*Euwallacea fornicatus sensu lato* & *Fusarium euwallaceae* A2/398  
*Frankliniella occidentalis* A2/177  
*Garella* (= *Erschoviella*) *musculana* A2/318  
*Gonipterus scutellatus* A2/38  
*Grapholita (Cydia) inopinata* A2/193  
*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  
*Opogona sacchari* A2/154  
*Paysandisia archon* A2/338  
*Platynota stultana* A2/408  
*Polygraphus proximus* A2/382  
*Popillia japonica* A2/40  
*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 erythrae* A2/46  
*Trirachys sartus* (= *Aeolesthes sarta*) A2/307  
*Trogoderma granarium* A2/121  
*Turanoclytus* (= *Xylotrechus*) *namanganensis* A2/328  
*Tuta absoluta* A2/321  
*Xylotrechus altaicus* A2/312

## 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  
*Meloidogyne mali* A2/409  
*Radopholus similis* (not attacking citrus) A2/126  
*Xiphinema rivesi* A2/262

## INVASIVE PLANTS

*Alternanthera philoxeroides* A2/393  
*Amaranthus palmeri* A2/436  
*Amaranthus tuberculatus* A2/437  
*Ambrosia confertiflora* A2/420  
*Ambrosia trifida* A2/432  
*Andropogon virginicus* A2/421  
*Baccharis halimifolia* A2/378  
*Cardiospermum grandiflorum* A2/410  
*Crassula helmsii* A2/340  
*Ehrharta calycina* A2/423  
*Gymnocoronis spilanthoides* A2/411  
*Hakea sericea* A2/424  
*Heracleum persicum* A2/354  
*Heracleum sosnowskyi* A2/355  
*Humulus scandens* A2/425  
*Hydrocotyle ranunculoides* A2/334  
*Ludwigia peploides* & *L. grandiflora* A2/364  
*Microstegium vimineum* A2/394  
*Myriophyllum heterophyllum* A2/395  
*Parthenium hysterophorus* A2/383  
*Pistia stratiotes* A2/412  
*Polygonum perfoliatum* A2/352  
*Pontederia* (= *Eichhornia crassipes*) A2/351  
*Prosopis juliflora* A2/428  
*Pueraria montana* var. *lobata* A2/341  
*Salvinia molesta* A2/413  
*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.

**GASTROPODA**

*Pomacea maculata* A1/419

## EPPO A1 AND A2 PESTS IN ALPHABETICAL ORDER

- Acidovorax citrulli* A1/379  
*Acleris gloverana* A1/281  
*Acleris variana* A1/32  
*Acrobasis pirivorella* (= *Numonia pyrivorella*) A2/184  
*Aculops fuchsiae* A2/185  
*Agrilus anxius* A1/362  
*Agrilus bilineatus* A2/430  
*Agrilus fleischeri* A2/431  
*Agrilus planipennis* A2/322  
*Aleurocanthus spiniferus* A2/186  
*Aleurocanthus woglumi* A1/103  
*Alternanthera philoxeroides* A2/393  
*Alternaria mali* A1/277  
*Amaranthus palmeri* A2/436  
*Amaranthus tuberculatus* A2/437  
*Ambrosia confertiflora* A2/420  
*Ambrosia trifida* A2/432  
*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  
*Andropogon virginicus* A2/421  
*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  
*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 latifrons* A1/404  
*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  
*Bretziella fagacearum* and its vectors A1/6  
*Bursaphelenchus xylophilus* A2/158  
*Cacoecimorpha pronubana* A2/104  
*Cacyreus marshalli* A2/181  
‘*Candidatus Liberibacter africanus*’ & ‘*Ca. L. asiaticus*’ 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 phoenicium*’ (Almond witches’ broom) A1/399  
‘*Candidatus Phytoplasma pyri*’ (Pear decline) A2/95  
‘*Candidatus Phytoplasma solani*’ (Stolbur) A2/100  
‘*Candidatus Phytoplasma ulmi*’ (Elm phloem necrosis) A1/26  
*Cardiospermum grandiflorum* A2/410  
*Carposina sasakii* A2/163  
*Ceratitis capitata* A2/105  
*Ceratitis rosa* A1/237  
*Ceratocystis platani* A2/136  
*Ceratothripoides brunneus* A1/405  
*Ceratothripoides claratris* A1/406  
*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* (*Orthotospovirus*) A1/313  
*Chrysanthemum stunt viroid* (*Pospiviroid*) A2/92  
*Chrysomyxa arctostaphyli* A1/8  
*Ciborinia camelliae* A2/190  
*Citrus bark cracking viroid* (*Cocadviroid*) A2/403  
*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 sepedonicus* A2/51  
*Coconut cadang-cadang viroid* (*Cocadviroid*) A1/192  
*Coconut lethal yellowing phytoplasma* (Palm lethal yellowing) A1/159

*Comstockaspis perniciosa* (= *Quadraspidiotus perniciosus*) A2/117  
*Coniferiporia* (*Phellinus*) *weirii* A1/19  
*Conotrachelus nenuphar* A1/35  
*Cortaderia jubata* A1/422  
*Crassula helmsii* A2/340  
*Cronartium coleosporioides* A1/248  
*Cronartium comandrae* A1/249  
*Cronartium comptoniae* A1/250  
*Cronartium fusiforme* A1/9  
*Cronartium harknessii* A1/11  
*Cronartium himalayense* A1/251  
*Cronartium kamschaticum* 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  
*Dacus ciliatus* A2/238  
*Daktulosphaira vitifoliae* A2/106  
*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  
*Diabrotica virgifera zea* A1/199  
*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  
*Ehrharta calycina* A2/423  
*Epitrix cucumeris* A2/299  
*Epitrix papa* A2/360  
*Epitrix subcrinita* A1/358  
*Epitrix tuberis* A1/165  
*Erwinia amylovora* A2/52  
*Euphranta canadensis* A1/41  
*Euphranta japonica* A1/41  
*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  
*Garella* (= *Erschoviella*) *musculana* A2/318  
*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  
*Grapevine flavescence dorée phytoplasma* A2/94  
*Grapholita* (*Cydia*) *inopinata* A2/193  
*Grapholita* (*Cydia*) *packardi* A1/209  
*Gymnandrosoma aurantianum* A1/433  
*Gymnocoronis spilanthoides* A2/411  
*Gymnosporangium clavipes* A1/253  
*Grapholita* (*Cydia*) *prunivora* A1/36  
*Gymnosporangium asiaticum* A2/13  
*Gymnosporangium globosum* A1/254  
*Gymnosporangium juniperi-virginianae* A1/255  
*Gymnosporangium yamadae* A1/257  
*Hakea sericea* A2/424  
*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  
*Humulus scandens* A2/425  
*Hydrocotyle ranunculoides* A2/334  
*Impatiens necrotic spot virus* (*Orthospovirus*) 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  
*Lespedeza cuneata* A1/426  
*Lettuce infectious yellows virus* (*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  
*Lygodium japonicum* A1/427  
*Lymantria mathura* A2/331  
*Maconellicoccus hirsutus* A2/314  
*Malacosoma americanum* A1/276  
*Malacosoma disstria* A1/213  
*Malacosoma parallela* A2/320  
*Margarodes prieskaensis* A1/214  
*Margarodes vitis* A1/215  
*Margarodes vredendalensis* A1/216  
*Massicus raddei* A1/414  
*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  
*Meloidogyne mali* A2/409  
*Metamasius hemipterus* A1/356  
*Microstegium vimineum* A2/394  
*Monilinia fructicola* A2/153  
*Mycodiella* (= *Mycosphaerella*) *laricis-leptolepidis* A1/16  
*Myriophyllum heterophyllum* A2/395  
*Nacobbus aberrans* A1/144  
*Naupactus leucoloma* A1/293  
*Naupactus xanthographus* A1/434  
*Nemorimyza maculosa* A1/152  
*Neoleucinodes elegantalis* A1/381  
*Oemonia hirta* A1/374  
*Oligonychus perditus* A1/217  
*Ophiognomonina clavignenti-juglandacearum* A1/329  
*Ophiostoma wageneri* A1/179  
*Opogona sacchari* A2/154  
*Orgyia pseudotsugata* A1/218  
*Pantoea stewartii* A2/54  
*Paraburkholderia caryophylli* A2/55  
*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  
*Phialophora cinerescens* A2/77  
*Phyllocoptes fructiphilus* (vector of *Rose rosette emaravirus*) A1/416  
*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  
*Pistia stratiotes* A2/412  
*Platynota stultana* A2/408  
*Plenodomus tracheiphilus* A2/287  
*Plum pox virus* (*Potyvirus*) A2/96  
*Polygonum perfoliatum* A2/352  
*Polygraphus proximus* A2/382  
*Pomacea canaliculata* A1/418  
*Pomacea maculata* A2/419  
*Pontederia* (= *Eichhornia*) *crassipes* A2/351  
*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  
*Prodiplosis longifila* A1/407  
*Prosopis juliflora* A2/428  
*Pseudocercospora angolensis* A1/298  
*Pseudocercospora pini-densiflorae* (= *Mycosphaerella gibsonii*) A1/7  
*Pseudomonas syringae* pv. *actinidiae* A2/370  
*Pseudomonas syringae* pv. *persicae* A2/145  
*Puccinia hemerocallidis* A2/346  
*Puccinia horiana* A2/80  
*Puccinia pittieriana* A1/155  
*Pueraria montana* var. *lobata* A2/341  
*Radopholus similis* (attacking citrus, formerly *R. citrophilus*) A1/161  
*Radopholus similis* (not attacking citrus) A2/126  
*Ralstonia pseudosolanacearum* A2/401  
*Ralstonia solanacearum* A2/58  
*Ralstonia syzygii* A1/400  
*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  
*Rose rosette emaravirus* A1/415  
*Salvinia molesta* A2/413  
*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 malagutii* A1/142  
*Sirex ermak* A2/327  
*Solanum elaeagnifolium* A2/342  
*Sphaerulina musiva (Davidiella populorum)* A1/17  
*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 crystalliniformis* A1/435  
*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  
*Thekopsora minima* A2/402  
*Thrips palmi* A1/175  
*Tilletia indica* A1/23  
*Tobacco ringspot virus (Nepovirus)* A2/228  
*Tomato brown rugose fruit virus (Tobamovirus)* A2/438  
*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 (Orthotospovirus)* A2/290  
*Tomato yellow leaf curl virus (Begomovirus)* and related viruses A2/182  
*Toxoptera citricidus* A2/45  
*Triadica sebifera* A1/429  
*Trichoferus campestris* A2/343  
*Trioza erytrae* A2/46  
*Trirachys sartus (=Aeolesthes sarta)* A2/307  
*Trogoderma granarium* A2/121  
*Turanoclytus (=Xylotrechus) namanganensis* A2/328  
*Tuta absoluta* A2/321  
*Unaspis citri* A1/226  
*Verticillium nonalfalfae & V. dahliae* (hop-infecting strains) A2/85  
*Watermelon silver mottle virus (Orthotospovirus)* A1/294  
*Xanthomonas arboricola* pv. *corylina* A2/134  
*Xanthomonas arboricola* pv. *pruni* A2/62  
*Xanthomonas axonopodis* pv. *poinsetticola* A2/350  
*Xanthomonas citri* subsp. *aurantifolii* A1/397  
*Xanthomonas citri* subsp. *citri* A1/1  
*Xanthomonas cynarae* pv. *gardneri* A2/391  
*Xanthomonas euvesicatoria* pv. *allii* A1/353  
*Xanthomonas euvesicatoria* pv. *euvesicatoria* A2/390  
*Xanthomonas euvesicatoria* pv. *perforans* A2/392  
*Xanthomonas fragariae* A2/135  
*Xanthomonas oryzae* pv. *oryzae* A1/2  
*Xanthomonas oryzae* pv. *oryzicola* A1/3  
*Xanthomonas phaseoli* pv. *dieffenbachiae* A2/417  
*Xanthomonas phaseoli* pv. *phaseoli* A2/60  
*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* A2/166  
*Xylophilus ampelinus* A2/133  
*Xylotrechus altaicus* A2/312  
*Zeugodacus (Bactrocera) cucumis* A1/203  
*Zeugodacus (Bactrocera) cucurbitae* A1/232

## EPPO A1 AND A2 PESTS IN NUMERICAL ORDER

- |    |  |    |   |
|----|--|----|---|
| 1  | <i>Xanthomonas citri</i> subsp. <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 sepedonicus</i>  |
| 6  | <i>Bretziella fagacearum</i> and its vectors   | 52 | <i>Erwinia amylovora</i>  |
| 7  | <i>Pseudocercospora pini-densiflorae</i><br>(= <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>Paraburkholderia caryophylli</i>   |
| 10 | <i>Apiosporina morbosus</i>  | 56 | formerly <i>Pseudomonas syringae</i> pv. <i>glycinea</i>                          |
| 11 | <i>Cronartium harknessii</i>   | 57 | formerly <i>Pseudomonas syringae</i> pv. <i>pisi</i>                              |
| 12 | <i>Botryosphaeria loricata</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 phaseoli</i> pv. <i>phaseoli</i>                                   |
| 15 | <i>Melampsora farlowii</i>   | 61 | formerly <i>Xanthomonas phaseoli</i> var. <i>fuscans</i>                          |
| 16 | <i>Mycodiella</i> (= <i>Mycosphaerella</i> ) <i>laricis-leptolepidis</i>                 | 62 | <i>Xanthomonas arboricola</i> pv. <i>pruni</i>                                    |
| 17 | <i>Sphaerulina musiva</i> ( <i>Davidiella populorum</i> )                                | 63 | formerly <i>Ophiostoma ulmi</i>   |
| 18 | <i>Cronartium kamtschaticum</i>  | 64 | formerly <i>Cochliobolus carbonum</i>   |
| 19 | <i>Coniferiporia</i> ( <i>Phellinus</i> ) <i>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</i> Phytoplasma ulmi' (Elm phloem necrosis)                              | 72 | formerly <i>Hypoxyylon mammatum</i>   |
| 27 | Peach American mosaic virus*   | 73 | formerly <i>Phaeoisariopsis griseola</i>  |
| 28 | <i>American plum line pattern virus</i> ( <i>Ilarvirus</i> )                             | 74 | <i>Melampsora medusae</i>   |
| 29 | <i>Potato yellow dwarf virus nucleorhabdovirus</i>                                       | 75 | formerly <i>Mycosphaerella linicola</i>   |
| 30 | <i>Potato yellow vein virus</i> ( <i>Crinivirus</i> )                                    | 76 | formerly <i>Ophiostoma roboris</i>  |
| 31 | <i>Raspberry leaf curl virus</i> ( <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>Grapholita</i> ( <i>Cydia</i> ) <i>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 nonalfalfae</i> & <i>V. dahliae</i> (hop-infecting strains)       |
| 40 | <i>Popillia japonica</i>   | 86 | formerly Apple chat fruit   |
| 41 | <i>Rhagoletis pomonella</i> , <i>Euphranta canadensis</i> ,<br><i>Euphranta japonica</i> | 87 | ' <i>Candidatus</i> Phytoplasma mali' (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 erytreae</i>   | 92 | <i>Chrysanthemum stunt viroid</i> ( <i>Pospiviroid</i> )                          |
|    |  | 93 | <i>Citrus tristeza virus</i> ( <i>Closterovirus</i> )                             |
|    |  | 94 | Grapevine flavescence dorée phytoplasma   |
|    |  | 95 | ' <i>Candidatus</i> Phytoplasma pyri' (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 'Candidatus *Phytoplasma solani*' (Stolbur)  
101 *Strawberry vein banding virus (Caulimovirus)*  
102 *Tomato ringspot virus (Nepovirus)*  
103 *Aleurocanthus woglumi*  
104 *Cacoecimorpha pronubana*  
105 *Ceratitidis capitata*  
106 *Daktulosphaira 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 *Comstockaspis perniciosus (=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 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 africanus*' & 'Ca. L. asiaticus'  
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 wageneri*  
180 formerly *Xanthomonas axonopodis* pv. *dieffenbachiae* (deleted and replaced by *X. phaseoli* pv. *dieffenbachiae*)  
181 *Cacyreus marshalli*  
182 *Tomato yellow leaf curl virus (Begomovirus)* and related viruses  
183 *Xanthomonas translucens* pv. *translucens*  
184 *Acrobasis pirivorella (=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 *Grapholita (Cydia) inopinata*  
194 *Phyllosticta citricarpa*  
195 *Helicoverpa zea*  
196 *Spodoptera eridania*



- 197 *Spodoptera frugiperda*  
198 *Blueberry leaf mottle virus (Nepovirus)*  
199 *Diabrotica virgifera virgifera* & *Diabrotica virgifera zeae*  
200 *Anastrepha suspensa*  
201 *Anisogramma anomala*  
202 *Anthonomus eugenii*  
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 *Grapholita (Cydia) packardi*  
210 *Diabrotica barberi*  
211 *Diaportha 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 *Ceratitis 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 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 yellow mosaic virus (Badnavirus)*  
286 *Sternochetus mangiferae*  
287 *Plenodomus tracheiphilus*  
288 *Eutetranychus orientalis*  
289 *Lopholeucaspis japonica*  
290 *Tomato spotted wilt virus (Orthospovirus)*  
291 *Impatiens necrotic spot virus (Orthospovirus)*  
292 *Diabrotica undecimpunctata*  
293 *Naupactus leucoloma*  
294 *Watermelon silver mottle virus (Orthospovirus)*  
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 (Limonium) californicus*

- 305 *Melanotus communis*  
306 *Fusarium circinatum*  
307 *Trirachys sartus* (= *Aeolesthes sarta*)  
308 *Dendrolimus sibiricus*  
309 *Scolytus morawitzi*  
310 *Tecia solanivora*  
311 *Tetropium gracilicorne*  
312 *Xylotrechus altaicus*  
313 *Chrysanthemum stem necrosis virus*  
(*Orthotospovirus*)  
314 *Maconellicoccus hirsutus*  
315 *Stegophora ulmea*  
316 *Cucumber vein yellowing virus* (*Ipomovirus*)  
317 *Dryocosmus kuriphilus*  
318 *Garella* (= *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 *Turanoclytus* (= *Xylotrechus*) *namanganensis*  
329 *Ophiognomonia clavignenti-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 *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. *poinsettiicola*  
351 *Pontederia* (= *Eichhornia*) *crassipes*  
352 *Polygonum perfoliatum*  
353 *Xanthomonas euvesicatoria* pv. *allii*  
354 *Heracleum persicum*  
355 *Heracleum sosnowskyi*  
356 *Metamasius hemipterus*  
357 *Bactrocera invadens* (deleted, now a synonym of  
*B. dorsalis*)  
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* pv. *euvesicatoria*  
391 *Xanthomonas cynarae* pv. *gardneri*  
392 *Xanthomonas euvesicatoria* pv. *perforans*  
393 *Alternanthera philoxeroides*  
394 *Microstegium vimineum*  
395 *Myriophyllum heterophyllum*  
396 *Lycorma delicatula*  
397 *Xanthomonas citri* subsp. *aurantifolii*  
398 *Euwallacea fornicatus sensu lato* & *Fusarium*  
*euwallaceae*  
399 'Candidatus *Phytoplasma phoenicium*'  
400 *Ralstonia syzygii*  
401 *Ralstonia pseudosolanacearum*  
402 *Thekopsora minima*  
403 *Citrus bark cracking viroid* (*Cocadviroid*)  
404 *Bactrocera latifrons*  
405 *Ceratothripoides brunneus*  
406 *Ceratothripoides claratris*  
407 *Prodiplosis longifila*  
408 *Platynota stultana*

- 409 *Meloidogyne mali*
- 410 *Cardiospermum grandiflorum*
- 411 *Gymnocoronis spilanthoides*
- 412 *Pistia stratiotes*
- 413 *Salvinia molesta*
- 414 *Massicus raddei*
- 415 *Rose rosette emaravirus*
- 416 *Phyllocoptes fructiphilus* (vector of *Rose rosette emaravirus*)
- 417 *Xanthomonas phaseoli* pv. *dieffenbachiae*
- 418 *Pomacea canaliculata*
- 419 *Pomacea maculata*
- 420 *Ambrosia confertiflora*
- 421 *Andropogon virginicus*
- 422 *Cortaderia jubata*
- 423 *Ehrharta calycina*
- 424 *Hakea sericea*
- 425 *Humulus scandens*
- 426 *Lespedeza cuneata*
- 427 *Lygodium japonicum*
- 428 *Prosopis juliflora*
- 429 *Triadica sebifera*
- 430 *Agrilus bilineatus*
- 431 *Agrilus fleischeri*
- 432 *Ambrosia trifida*
- 433 *Gymnandrosoma aurantianum*
- 434 *Naupactus xanthographus*
- 435 *Stagonosporopsis crystalliformis*
- 436 *Amaranthus palmeri*
- 437 *Amaranthus tuberculatus*
- 438 tomato brown rugose fruit virus