

# ◆ **EPPO Standards** ◆

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

**PM 1/2(16) 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 2004. In the terms of Article II of the IPPC, it is a Regional Standard for EPPO Member Governments.

## REVIEW

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

## AMENDMENT RECORD

Amendments will be issued as necessary, numbered and dated.

## DISTRIBUTION

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

## SCOPE

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

## REFERENCES

- IPPC (1997) New revised text of the International Plant Protection Convention. IPPC Secretariat, FAO, Rome (IT).  
IPPC (2005) *Glossary of phytosanitary terms*. ISPM No. 5 in *International Standards for Phytosanitary Measures*, pp. 41-63. IPPC Secretariat, FAO, Rome (IT).  
OEPP/EPPO (1992) *EPPO Standard PM 5/1(1)*. Check-list of information required for pest risk analysis (PRA). *Bulletin OEPP/EPPO Bulletin* **23**, 191-198.  
OEPP/EPPO (2006) *EPPO Standard PM 5/3(2)*. *Decision-support scheme for quarantine pests* from <http://www.eppo.org/QUARANTINE/quarantine.htm>.  
OEPP/EPPO (2006) *EPPO Alert List* from <http://www.eppo.org/QUARANTINE/quarantine.htm>.

## DEFINITIONS

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

## OUTLINE OF REQUIREMENTS

The EPPO A1 and A2 Lists include the pests which EPPO recommends to be regulated as quarantine pests, in the national phytosanitary regulations of EPPO Member Governments. These recommendations are based on pest risk analysis and on appropriate documentation. This document presents the Lists and gives details on their background, development and use.

## REQUIREMENTS

The EPPO Convention lays down that one of the aims of EPPO is "to pursue and develop, by cooperation between the Member Governments, the protection of

plants and plant products against pests and the prevention of their international spread and especially their introduction into endangered areas". EPPO Council has consequently decided to draw up lists of

pests whose regulation is relevant for the whole of, or large parts of, the EPPO region. The first List is of A1 pests, not present in the EPPO region. The second List is of A2 pests, present in the EPPO region but not widely distributed (i.e. absent from or not widely distributed in endangered areas in certain countries, where they are therefore subject to official control).

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

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

#### *Addition of pests to the A1 or A2 Lists*

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

Since 2006, a new system has been established and special expert groups have been created to conduct PRA, called Expert Working Groups (EWG) for PRA. These groups have an *ad hoc* membership in order for experts on specific pests to be called upon to participate when needed, as well as core members to provide consistency in conducting PRA. Core members are mainly drawn from existing EPPO Panels, and have experience of performing or reviewing risk assessment and determining risk management options. Two core members are selected for each Expert Working Group, but all core members are involved in reviewing the documents produced by a Expert Working Group (see below). Pest Risk Analyses are carried out on pests either proposed by an EPPO Member Government or by the Panel on Phytosanitary Measures (in this case, pests are mainly selected from the EPPO Alert List). For invasive plants the Panel on Invasive Alien Species can also make proposals. The Working Party on Phytosanitary Regulations decides on priorities for PRA, but there will be enough flexibility to ensure that a PRA can be conducted on a new emerging pest even

if it is not on the priority list. Pest Risk Analyses on pests are performed during the meetings of the Expert Working Group for PRA, following ISPM no. 11 and EPPO PM 5/3 *Decision-support scheme for quarantine pests*. The report of the PRA is prepared by the Secretariat, together with a record of the EPPO decision-support scheme. These are both sent by email to all core members for review. After this consultation, the reports of the PRA is presented to the Panel on Phytosanitary Measures which makes appropriate recommendations to the EPPO Working Party on Phytosanitary Regulations. The Working Party on Phytosanitary Regulations decides, after due consideration, whether to recommend to EPPO Council the addition of a given pest to the List.

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

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

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

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

#### *A1 and A2 Lists*

These Lists are presented in Appendix 1.

### **PREVIOUS VERSIONS OF THIS STANDARD**

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

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

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

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

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

Versions PM 1/2(5-16), corresponding to the modifications decided by EPPO Council since 1991, have been published electronically.

## APPENDIX 1 (2007-09)

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

#### PROKARYOTES

Elm phloem necrosis phytoplasma A1/26  
*Liberobacter africanum* & *L. asiaticum* A1/151  
Palm lethal yellowing phytoplasma A1/159  
Peach rosette phytoplasma A1/138  
Peach X-disease phytoplasma A1/140  
Peach yellows phytoplasma A1/139  
Potato purple-top wilt phytoplasma A1/128  
*Xanthomonas axonopodis* pv. *citri* A1/1  
*Xanthomonas oryzae* pv. *oryzae* A1/2  
*Xanthomonas oryzae* pv. *oryzicola* A1/3  
*Xylella fastidiosa* A1/166

#### FUNGI

*Alternaria mali* A1/277  
*Anisogramma anomala* A1/201  
*Apiosporina morbosa* A1/10  
*Atropellis pinicola* A1/5  
*Atropellis piniphila* A1/280  
*Ceratocystis fagacearum* and its vectors A1/6  
    *Pseudopityophthorus minutissimus*  
    *Pseudopityophthorus pruinus*  
*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  
*Diaporthe vaccinii* A1/211  
*Endocronartium harknessii* A1/11  
*Gibberella circinata* A1/306  
*Guignardia citricarpa* A1/194  
*Gymnosporangium clavipes* A1/253  
*Gymnosporangium globosum* A1/254  
*Gymnosporangium juniperi-virginianae* A1/255  
*Gymnosporangium yamadae* A1/257  
*Melampsora farlowii* A1/15  
*Mycosphaerella gibsonii* A1/7  
*Mycosphaerella laricis-leptolepidis* A1/16  
*Mycosphaerella populorum* A1/17  
*Ophiostoma wageneri* A1/179  
*Phaeoramularia angolensis* A1/298  
*Phellinus weirii* A1/19  
*Phoma andigena* A1/141  
*Phyllosticta solitaria* A1/20  
*Phymatotrichopsis omnivora* A1/21  
*Phytophthora lateralis* A1/337  
*Puccinia hemerocallidis* A1/346

*Puccinia pittieriana* A1/155  
*Septoria lycopersici* var. *malagutii* A1/142  
*Sirococcus clavigignenti-juglandacearum* A1/329  
*Stegophora ulmea* A1/315  
*Thecaphora solani* A1/4  
*Tilletia indica* A1/23

#### PARASITIC PLANTS

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

#### VIRUSES

*Andean potato latent virus* (*Tymovirus*) A1/244  
*Andean potato mottle virus* (*Comovirus*) A1/245  
*American plum line pattern virus* (*Ilarvirus*) A1/28  
*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 tatter leaf virus (*Capillovirus*) A1/191  
Citrus leprosis virus A1/284  
*Citrus 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  
Strawberry latent C virus A1/129  
*Tomato mottle virus* (*Begomovirus* - and other American Geminiviridae of capsicum and tomato) A1/225  
*Watermelon silver mottle virus* (*Tospovirus*) A1/294

## NEMATODES

*Bursaphelenchus xylophilus* and its vectors in the genus *Monochamus* A1/158  
*Nacobbus aberrans* A1/144  
*Radopholus similis* (attacking citrus, formerly *R. citrophilus*) A1/161  
*Xiphinema americanum sensu stricto* A1/150  
*Xiphinema bricolense* A1/260  
*Xiphinema californicum* A1/261

## INSECTS

*Acleris gloverana* A1/281  
*Acleris variana* A1/32  
*Agrilus planipennis* A1/322  
*Aleurocanthus spiniferus* A1/186  
*Aleurocanthus woglumi* A1/103  
*Amauromyza maculosa* A1/152  
*Anastrepha fraterculus* A1/229  
*Anastrepha ludens* A1/230  
*Anastrepha obliqua* A1/231  
*Anastrepha suspensa* A1/200  
*Anoplophora glabripennis* A1/296  
*Anthonomus bisignifer* A1/189  
*Anthonomus eugenii* A1/202  
*Anthonomus grandis* A1/34  
*Anthonomus signatus* A1/164  
*Bactrocera cucumis* A1/203  
*Bactrocera cucurbitae* A1/232  
*Bactrocera dorsalis* A1/233  
*Bactrocera minax* A1/234  
*Bactrocera tryoni* A1/235  
*Bactrocera tsuneonis* A1/236  
*Bactrocera zonata* A1/302  
*Blitopertha orientalis* A1/33  
*Ceratitidis rosa* A1/237  
*Choristoneura conflictana* A1/205  
*Choristoneura fumiferana* A1/206  
*Choristoneura occidentalis* A1/207  
*Choristoneura rosaceana* A1/208  
*Conotrachelus nenuphar* A1/35  
*Cydia packardi* A1/209  
*Cydia prunivora* A1/36  
*Dendroctonus adjunctus* A1/43  
*Dendroctonus brevicornis* A1/263  
*Dendroctonus frontalis* A1/264  
*Dendroctonus ponderosae* A1/265  
*Dendroctonus pseudotsugae* A1/266  
*Dendroctonus rufipennis* A1/267  
*Diabrotica barberi* A1/210  
*Diabrotica speciosa* A1/303  
*Diabrotica undecimpunctata* A1/292

*Diaphorina citri* A1/37  
*Dryocoetes confusus* A1/268  
*Epitrix cucumeris* A1/299  
*Epitrix tuberis* A1/165  
*Gnathotrichus sulcatus* A1/269  
*Gonipterus gibberus* A1/301  
*Helicoverpa zea* A1/195  
*Heteronychus arator* A1/297  
*Homalodisca coagulata* A1/336  
*Ips calligraphus* A1/270  
*Ips confusus* A1/271  
*Ips grandicollis* A1/272  
*Ips lecontei* A1/273  
*Ips pini* A1/274  
*Ips plastographus* A1/275  
*Limonium californicum* A1/304  
*Listronotus bonariensis* A1/168  
*Maconellicoccus hirsutus* A1/314  
*Malacosoma americanum* A1/276  
*Malacosoma disstria* A1/213  
*Margarodes prieskaensis* A1/214  
*Margarodes vitis* A1/215  
*Margarodes vredendalensis* A1/216  
*Melanotus communis* A1/305  
*Naupactus leucoloma* A1/293  
*Oligonychus perditus* A1/217  
*Orgyia pseudotsugata* A1/218  
*Pissodes nemorensis* A1/44  
*Pissodes strobi* A1/258  
*Pissodes terminalis* A1/259  
*Premnotrypes latithorax*, *P. suturicallus* & *P. vorax* A1/143  
*Rhagoletis fausta* A1/241  
*Rhagoletis indifferens* A1/242  
*Rhagoletis mendax* A1/243  
*Rhagoletis pomonella* A1/41  
*Rhizoecus hibisci* A1/300  
*Rhynchophorus palmarum* A1/332  
*Scirtothrips aurantii* A1/221  
*Scirtothrips citri* A1/222  
*Spodoptera eridania* A1/196  
*Spodoptera frugiperda* A1/197  
*Spodoptera litura* A1/42  
*Sternochetus mangiferae* A1/286  
*Thrips palmi* A1/175  
*Trioza erytraeae* A1/46  
*Tuta absoluta* A1/321  
*Unaspis citri* A1/226

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

### PROKARYOTES

Apple proliferation phytoplasma A2/87  
*Burkholderia caryophylli* A2/55  
*Clavibacter michiganensis* subsp. *insidiosus* A2/49  
*Clavibacter michiganensis* subsp. *michiganensis* A2/50  
*Clavibacter michiganensis* subsp. *sepedonicus* A2/51  
*Curtobacterium flaccumfaciens* pv. *flaccumfaciens* A2/48  
*Erwinia amylovora* A2/52  
*Erwinia chrysanthemi* A2/53  
Grapevine flavescence dorée phytoplasma A2/94  
*Pantoea stewartii* pv. *stewartii* A2/54  
Pear decline phytoplasma A2/95  
*Pseudomonas syringae* pv. *persicae* A2/145  
*Ralstonia solanacearum* A2/58  
Stolbur phytoplasma A2/100  
*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 fragariae* A2/135  
*Xanthomonas translucens* pv. *translucens* A2/183  
*Xanthomonas axonopodis* pv. *vesicatoria* and  
*Xanthomonas vesicatoria* A2/157  
*Xylophilus ampelinus* A2/133

### FUNGI

*Botryosphaeria laricina* A2/12  
*Ceratocystis fimbriata* f.sp. *platani* A2/136  
*Ciborinia camelliae* A2/190  
*Cronartium kamtschaticum* A2/18  
*Cryphonectria parasitica* A2/69  
*Deuterophoma tracheiphila* A2/287  
*Didymella ligulicola* A2/66  
*Fusarium foetens* A2/345  
*Fusarium oxysporum* f.sp. *albedinis* A2/70  
*Glomerella gossypii* A2/71  
*Gymnosporangium asiaticum* A2/13  
*Melampsora medusae* A2/74  
*Monilinia fructicola* A2/153  
*Mycosphaerella dearnessii* A2/22  
*Phialophora cinerescens* A2/77  
*Phytophthora fragariae* A2/79  
*Puccinia horiana* A2/80  
*Stenocarpella macrospora* A2/67  
*Stenocarpella maydis* A2/68  
*Synchytrium endobioticum* A2/82  
*Verticillium albo-atrum* & *V. dahliae* (hop-infecting strains) A2/85

### VIRUSES

Beet leaf curl virus A2/90  
*Beet necrotic yellow vein virus (Benyvirus)* A2/160  
*Blueberry leaf mottle virus (Nepovirus)* A2/198  
*Blueberry scorch virus (Carlavirus)* A2/347  
*Chrysanthemum stunt viroid (Pospiviroid)* A2/92  
*Citrus tristeza virus (Closterovirus)* A2/93  
*Cucumber vein yellowing virus (Ipomovirus)* A2/316  
*Cucurbit yellow stunting disorder virus (Crinivirus)* A2/324  
*Impatiens necrotic spot virus (Tospovirus)* A2/291  
*Plum pox virus (Potyvirus)* A2/96  
*Potato spindle tuber viroid (Pospiviroid)* A2/97  
*Raspberry ringspot virus (Nepovirus)* A2/98  
*Satsuma dwarf virus (Sadwavirus)* A2/279  
*Squash leaf curl virus (Begomovirus)* A2/224  
*Strawberry veinbanding virus (Caulimovirus)* A2/101  
*Tobacco ringspot virus (Nepovirus)* A2/228  
*Tomato chlorosis virus (Crinivirus)* A2/323  
*Tomato infectious chlorosis virus (Crinivirus)* A2/348  
*Tomato ringspot virus (Nepovirus)* A2/102  
*Tomato spotted wilt virus (Tospovirus)* A2/290  
*Tomato yellow leaf curl virus (Begomovirus)* and related viruses A2/182

### INSECTS

*Aculops fuchsiae* A2/185  
*Aeolesthes sarta* A2/307  
*Anoplophora chinensis* A2/187  
*Bemisia tabaci* A2/178  
*Cacoecimorpha pronubana* A2/104  
*Cacyreus marshalli* A2/181  
*Carposina sasakii* A2/163  
*Ceratitis capitata* A2/105  
*Cydia inopinata* A2/193  
*Dacus ciliatus* A2/238  
*Dendrolimus sibiricus* A2/308  
*Dendrolimus superans* A2/330  
*Diabrotica virgifera* A2/199  
*Dryocosmus kuriphilus* A2/317  
*Erschoviella musculana* A2/318  
*Eutetranychus orientalis* A2/288  
*Frankliniella occidentalis* A2/177  
*Gonipterus scutellatus* A2/38  
*Helicoverpa armigera* A2/110  
*Hesperophanes campestris* A2/343  
*Ips hauseri* A2/326  
*Ips subelongatus* A2/325

*Lepidosaphes ussuriensis* A2/319  
*Leptinotarsa decemlineata* A2/113  
*Liriomyza huidobrensis* A2/283  
*Liriomyza sativae* A2/282  
*Liriomyza trifolii* A2/131  
*Lopholeucaspis japonica* A2/289  
*Lymantria mathura* A2/331  
*Malacosoma parallela* A2/320  
*Megaplatypus mutatus* A2/344  
*Numonia pirivorella* A2/184  
*Opogona sacchari* A2/154  
*Paysandisia archon* A2/338  
*Popillia japonica* A2/40  
*Quadraspidiotus perniciosus* A2/117  
*Rhagoletis cingulata* A2/239  
*Rhynchophorus ferrugineus* A2/339  
*Scolytus morawitzi* A2/309  
*Sirex ermak* A2 327  
*Scirtothrips dorsalis* A2/223  
*Spodoptera littoralis* A2/120  
*Strobilomya viaria* A2/333  
*Tecia solanivora* A2/310  
*Tetropium gracilicorne* A2/311  
*Toxoptera citricida* A2/45  
*Trogoderma granarium* A2/121  
*Viteus vitifoliae* A2/106  
*Xylotrechus altaicus* A2/312  
*Xylotrechus namanganensis* A2/328

#### **NEMATODES**

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

#### **INVASIVE PLANTS**

*Hydrocotyle ranunculoides* A2/334  
*Lysichiton americanus* A2/335  
*Crassula helmsii* A2/340  
*Pueraria lobata* A2/341  
*Solanum elaeagnifolium* A2/342



## EPPO A1 AND A2 PESTS IN ALPHABETICAL ORDER

- Acleris gloverana* A1/281  
*Acleris variana* A1/32  
*Aculops fuchsiae* A2/185  
*Andean Potato latent virus (Tymovirus)* A1/244  
*Andean Potato mottle virus (Comovirus)* A1/245  
*Aeolesthes sarta* A2/307  
*Agrilus planipennis* A1/322  
*Aleurocanthus spiniferus* A1/186  
*Aleurocanthus woglumi* A1/103  
*Alternaria mali* A1/277  
*Amauromyza maculosa* A1/152  
*American plum line pattern virus (Ilarvirus)* A1/28  
*Anastrepha fraterculus* A1/229  
*Anastrepha ludens* A1/230  
*Anastrepha obliqua* A1/231  
*Anastrepha suspensa* A1/200  
*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  
*Apple proliferation phytoplasma* A2/87  
*Arceuthobium* spp. (non-European) A1/24  
*Atropellis pinicola* A1/5  
*Atropellis piniphila* A1/280  
*Bactrocera cucumis* A1/203  
*Bactrocera cucurbitae* A1/232  
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*Puccinia pittieriana* A1/155  
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*Stolbur phytoplasma* A2/100  
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*Strawberry veinbanding virus (Caulimovirus)* A2/101  
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*Tecia solanivora* A2/310  
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*Xanthomonas axonopodis* pv. *citri* A1/1  
*Xanthomonas axonopodis* pv. *dieffenbachiae* A2/180  
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*Xanthomonas axonopodis* pv. *vesicatoria* and *Xanthomonas vesicatoria* A2/157  
*Xanthomonas fragariae* A2/135  
*Xanthomonas oryzae* pv. *oryzae* A1/2  
*Xanthomonas oryzae* pv. *oryzicola* A1/3  
*Xanthomonas translucens* pv. *translucens* A2/183  
*Xiphinema americanum sensu stricto* A1/150  
*Xiphinema bricolense* A1/260  
*Xiphinema californicum* A1/261  
*Xiphinema rivesi* A2/262  
*Xylella fastidiosa* A1/166  
*Xylophilus ampelinus* A2/133  
*Xylotrechus altaicus* A2/312  
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## EPPO A1 AND A2 PESTS IN NUMERICAL ORDER

- |    |   |  |    |  |
|----|---|--|----|--|
| 1  | <i>Xanthomonas axonopodis</i> pv. <i>citri</i>                |  | 48 | <i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i>             |
| 2  | <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>                   |  | 49 | <i>Clavibacter michiganensis</i> subsp. <i>insidiosus</i>                  |
| 3  | <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>                |  | 50 | <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>               |
| 4  | <i>Thecaphora solani</i>                                      |  | 51 | <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>                 |
| 5  | <i>Atropellis pinicola</i>                                    |  | 52 | <i>Erwinia amylovora</i>   |
| 6  | <i>Ceratocystis fagacearum</i> and its vectors                |  | 53 | <i>Erwinia chrysanthemi</i>  |
| 7  | <i>Mycosphaerella gibsonii</i>                                |  | 54 | <i>Pantoea stewartii</i> pv. <i>stewartii</i>                              |
| 8  | <i>Chrysomyxa arctostaphyli</i>                               |  | 55 | <i>Burkholderia caryophylli</i>  |
| 9  | <i>Cronartium fusiforme</i>                                   |  | 56 | formerly <i>Pseudomonas syringae</i> pv. <i>glycinea</i>                   |
| 10 | <i>Apiosporina morbosa</i>                                    |  | 57 | formerly <i>Pseudomonas syringae</i> pv. <i>pisi</i>                       |
| 11 | <i>Endocronartium harknessii</i>                              |  | 58 | <i>Ralstonia solanacearum</i>  |
| 12 | <i>Botryosphaeria laricina</i>                                |  | 59 | formerly <i>Xanthomonas campestris</i> pv. <i>hyacinthi</i>                |
| 13 | <i>Gymnosporangium asiaticum</i>                              |  | 60 | <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i>                          |
| 14 | formerly <i>Hamaspora longissima</i>                          |  | 61 | formerly <i>Xanthomonas phaseoli</i> var. <i>fuscans</i>                   |
| 15 | <i>Melampsora farlowii</i>                                    |  | 62 | <i>Xanthomonas arboricola</i> pv. <i>pruni</i>                             |
| 16 | <i>Mycosphaerella laricis-leptolepidis</i>                    |  | 63 | formerly <i>Ophiostoma ulmi</i>  |
| 17 | <i>Mycosphaerella populorum</i>                               |  | 64 | formerly <i>Cochliobolus carbonum</i>                                      |
| 18 | <i>Cronartium kamschaticum</i>                                |  | 65 | formerly <i>Cochliobolus heterostrophus</i>                                |
| 19 | <i>Phellinus weirii</i>                                       |  | 66 | <i>Didymella ligulicola</i>  |
| 20 | <i>Phyllosticta solitaria</i>                                 |  | 67 | <i>Stenocarpella macrospora</i>  |
| 21 | <i>Phymatotrichopsis omnivora</i>                             |  | 68 | <i>Stenocarpella maydis</i>  |
| 22 | <i>Mycosphaerella dearnessii</i>                              |  | 69 | <i>Cryphonectria parasitica</i>  |
| 23 | <i>Tilletia indica</i>  |  | 70 | <i>Fusarium oxysporum</i> f.sp. <i>albedinis</i>                           |
| 24 | <i>Arceuthobium</i> spp. (non-European)                       |  | 71 | <i>Glomerella gossypii</i>   |
| 25 | formerly Blackberry dwarf                                     |  | 72 | formerly <i>Hypoxyylon mammatum</i>  |
| 26 | Elm phloem necrosis phytoplasma                               |  | 73 | formerly <i>Phaeoisariopsis griseola</i>                                   |
| 27 | Peach American mosaic virus*                                  |  | 74 | <i>Melampsora medusae</i>  |
| 28 | <i>American plum line pattern virus</i> ( <i>Ilarvirus</i> )  |  | 75 | formerly <i>Mycosphaerella linicola</i>                                    |
| 29 | <i>Potato yellow dwarf virus</i> ( <i>Nucleorhabdovirus</i> ) |  | 76 | formerly <i>Ophiostoma roboris</i>   |
| 30 | <i>Potato yellow vein virus</i> ( <i>Crinivirus</i> )         |  | 77 | <i>Phialophora cinerescens</i>   |
| 31 | <i>Raspberry leaf curl virus</i> ( <i>Nepovirus</i> )         |  | 78 | formerly <i>Phoma exigua</i> var. <i>foveata</i>                           |
| 32 | <i>Acleris variana</i>  |  | 79 | <i>Phytophthora fragariae</i>  |
| 33 | <i>Blitopertha orientalis</i>                                 |  | 80 | <i>Puccinia horiana</i>  |
| 34 | <i>Anthonomus grandis</i>                                     |  | 81 | formerly <i>Puccinia pelargonii-zonalis</i>                                |
| 35 | <i>Conotrachelus nenuphar</i>                                 |  | 82 | <i>Synchytrium endobioticum</i>  |
| 36 | <i>Cydia prunivora</i>  |  | 83 | formerly <i>Tilletia controversa</i>                                       |
| 37 | <i>Diaphorina citri</i>                                       |  | 84 | formerly <i>Uromyces transversalis</i>                                     |
| 38 | <i>Gonipterus scutellatus</i>                                 |  | 85 | <i>Verticillium albo-atrum</i> & <i>V. dahliae</i> (hop-infecting strains) |
| 39 | formerly <i>Hylurgopinus rufipes</i>                          |  | 86 | formerly Apple chat fruit  |
| 40 | <i>Popillia japonica</i>                                      |  | 87 | Apple proliferation phytoplasma  |
| 41 | <i>Rhagoletis pomonella</i>                                   |  | 88 | formerly Barley stripe mosaic hordeivirus                                  |
| 42 | <i>Spodoptera litura</i>                                      |  | 89 | formerly Beet curly top virus  |
| 43 | <i>Dendroctonus adjunctus</i>                                 |  | 90 | Beet leaf curl virus   |
| 44 | <i>Pissodes nemorensis</i>                                    |  | 91 | formerly Cherry necrotic rusty mottle disease                              |
| 45 | <i>Toxoptera citricida</i>                                    |  | 92 | <i>Chrysanthemum stunt viroid</i> ( <i>Pospiviroid</i> )                   |
| 46 | <i>Trioza erytrae</i>   |  | 93 | <i>Citrus tristeza virus</i> ( <i>Closterovirus</i> )                      |
| 47 | formerly <i>Xanthomonas populi</i>                            |  | 94 | Grapevine flavescence dorée phytoplasma                                    |
|    |   |  | 95 | Pear decline phytoplasma   |
|    |   |  | 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 Stolbur phytoplasma
- 101 *Strawberry veinbanding virus (Caulimovirus)*
- 102 *Tomato ringspot virus (Nepovirus)*
- 103 *Aleurocanthus woglumi*
- 104 *Cacoecimorpha pronubana*
- 105 *Ceratitis capitata*
- 106 *Viteus vitifoliae*
- 107 formerly *Rhopalomyia chrysanthemi*
- 108 formerly *Epichoristodes acerbella*
- 109 formerly *Eriosoma lanigerum*
- 110 *Helicoverpa armigera*
- 111 formerly *Hyphantria cunea*
- 112 formerly *Ips amitinus*
- 113 *Leptinotarsa decemlineata*
- 114 formerly *Phoracantha semipunctata*
- 115 formerly *Phthorimaea operculella*
- 116 formerly *Pseudococcus comstocki*
- 117 *Quadraspidiotus perniciosus*
- 118 formerly *Scolytus multistriatus*
- 119 formerly *Scolytus scolytus*
- 120 *Spodoptera littoralis*
- 121 *Trogoderma granarium*
- 122 *Aphelenchoides besseyi*
- 123 formerly *Ditylenchus destructor*
- 124 *Globodera pallida*
- 125 *Globodera rostochiensis*
- 126 *Radopholus similis* (not attacking citrus)
- 127 *Cherry rasp leaf virus (Cheravirus)*
- 128 Potato purple-top wilt phytoplasma
- 129 Strawberry latent C virus
- 130 formerly Strawberry witches' broom phytoplasma
- 131 *Liriomyza trifolii*
- 132 formerly *Agrobacterium rhizogenes*
- 133 *Xylophilus ampelinus*
- 134 *Xanthomonas arboricola* pv. *corylina*
- 135 *Xanthomonas fragariae*
- 136 *Ceratocystis fimbriata* f.sp. *platani*
- 137 formerly peach phony bacterium, now = no. 166
- 138 Peach rosette phytoplasma
- 139 Peach yellows phytoplasma
- 140 Peach X-disease phytoplasma
- 141 *Phoma andigena*
- 142 *Septoria lycopersici* var. *malagutii*
- 143 *Premnotrypes latithorax*, *P. suturicallus* & *P vorax*
- 144 *Nacobbus aberrans*
- 145 *Pseudomonas syringae* pv. *persicae*
- 146 formerly Apricot chlorotic leafroll phytoplasma
- 147 formerly *Black raspberry latent ilarvirus*
- 148 formerly *Cherry leaf roll nepovirus* (in *Rubus*)
- 149 formerly *Apple mosaic ilarvirus* (in *Rubus*)
- 150 *Xiphinema americanum sensu stricto*
- 151 *Liberobacter africanum* & *L. asiaticum*
- 152 *Amauromyza maculosa*
- 153 *Monilinia fructicola*
- 154 *Opogona sacchari*
- 155 *Puccinia pittieriana*
- 156 formerly *Phytophthora infestans* mating type A2
- 157 *Xanthomonas axonopodis* pv. *vesicatoria* and *Xanthomonas vesicatoria*
- 158 *Bursaphelenchus xylophilus* and its vectors in the genus *Monochamus*
- 159 Palm lethal yellowing phytoplasma
- 160 *Beet necrotic yellow vein virus (Benyvirus)*
- 161 *Radopholus similis* (attacking citrus, formerly *R. citrophilus*)
- 162 formerly *Parabemisia myricae*
- 163 *Carposina sasakii*
- 164 *Anthonomus signatus*
- 165 *Epitrix tuberis*
- 166 *Xylella fastidiosa*
- 167 *Heterodera glycines*
- 168 *Listronotus bonariensis*
- 169 formerly *Phialophora gregata*
- 170 formerly *Phytophthora megasperma* f.sp. *glycines*
- 171 formerly *Diaporthe phaseolorum*
- 172 formerly *Anarsia lineatella*
- 173 formerly *Grapholita molesta*
- 174 *Ditylenchus dipsaci*
- 175 *Thrips palmi*
- 176 formerly *Unaspis yanonensis*
- 177 *Frankliniella occidentalis*
- 178 *Bemisia tabaci*
- 179 *Ophiostoma wagneri*
- 180 *Xanthomonas axonopodis* pv. *dieffenbachiae*
- 181 *Cacyreus marshalli*
- 182 *Tomato yellow leaf curl virus (Begomovirus)* and related viruses
- 183 *Xanthomonas translucens* pv. *translucens*
- 184 *Numonia pirivorella*
- 185 *Aculops fuchsiae*
- 186 *Aleurocanthus spiniferus*
- 187 *Anoplophora chinensis*
- 188 *Anoplophora malasiaca* (now considered as a synonym of *A. chinensis*)
- 189 *Anthonomus bisignifer*
- 190 *Ciborinia camelliae*
- 191 Citrus tatter leaf virus (*Capillovirus*)
- 192 *Coconut cadang-cadang viroid (Cocadviroid)*
- 193 *Cydia inopinata*
- 194 *Guignardia citricarpa*
- 195 *Helicoverpa zea*
- 196 *Spodoptera eridania*
- 197 *Spodoptera frugiperda*

- 198 *Blueberry leaf mottle virus (Nepovirus)*  
199 *Diabrotica virgifera*  
200 *Anastrepha suspensa*  
201 *Anisogramma anomala*  
202 *Anthonomus eugenii*  
203 *Bactrocera cucumis*  
204 *Bean golden mosaic virus (Begomovirus)*  
205 *Choristoneura conflictana*  
206 *Choristoneura fumiferana*  
207 *Choristoneura occidentalis*  
208 *Choristoneura rosaceana*  
209 *Cydia packardii*  
210 *Diabrotica barberi*  
211 *Diaporthe vaccinii*  
212 *Lettuce infectious yellows virus (Crinivirus)*  
213 *Malacosoma disstria*  
214 *Margarodes prieskaensis*  
215 *Margarodes vitis*  
216 *Margarodes vredendalensis*  
217 *Oligonychus perditus*  
218 *Orgyia pseudotsugata*  
219 *Peach rosette mosaic virus (Nepovirus)*  
220 *Potato yellowing virus*  
221 *Scirtothrips aurantii*  
222 *Scirtothrips citri*  
223 *Scirtothrips dorsalis*  
224 *Squash leaf curl virus (Begomovirus)*  
225 *Tomato mottle virus (Begomovirus) (and other American Geminiviridae of capsicum and tomato)*  
226 *Unaspis citri*  
227 *Meloidogyne chitwoodii*  
228 *Tobacco ringspot virus (Nepovirus)*  
229 *Anastrepha fraterculus*  
230 *Anastrepha ludens*  
231 *Anastrepha obliqua*  
232 *Bactrocera cucurbitae*  
233 *Bactrocera dorsalis*  
234 *Bactrocera minax*  
235 *Bactrocera tryoni*  
236 *Bactrocera tsuneonis*  
237 *Ceratitidis rosa*  
238 *Dacus ciliatus*  
239 *Rhagoletis cingulata*  
240 formerly *Rhagoletis completa*  
241 *Rhagoletis fausta*  
242 *Rhagoletis indifferens*  
243 *Rhagoletis mendax*  
244 *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 mosaic virus (Badnavirus)*  
286 *Sternochetus mangiferae*  
287 *Deuterophoma tracheiphila*  
288 *Eutetranychus orientalis*  
289 *Lopholeucaspis japonica*  
290 *Tomato spotted wilt virus (Tospovirus)*  
291 *Impatiens necrotic spot virus (Tospovirus)*  
292 *Diabrotica undecimpunctata*  
293 *Naupactus leucoloma*  
294 *Watermelon silver mottle virus (Tospovirus)*  
295 *Meloidogyne fallax*  
296 *Anoplophora glabripennis*  
297 *Heteronychus arator*  
298 *Phaeoramularia angolensis*  
299 *Epitrix cucumeris*  
300 *Rhizoecus hibisci*  
301 *Gonipterus gibberus*  
302 *Bactrocera zonata*

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