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POUR LA PROTECTION DES PLANTES

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# EPPO Reporting Service

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**2017/145    New data on quarantine pests and pests of the EPPO Alert List**

By searching through the literature, the EPPO Secretariat has extracted the following new data concerning quarantine pests and pests included (or formerly included) on the EPPO Alert List, and indicated in bold the situation of the pest concerned using the terms of ISPM no. 8.

- **New records**

In the Russian Far East, a male specimen of *Anoplophora glabripennis* (Coleoptera: Cerambycidae - EPPO A1 List) was discovered in August 2014 on the territory of Primorsky Krai, close to the Chinese border (approximately 0.5-1 km). **Present, a single specimen found in Primorsky Krai (close to China) (Shamaev, 2016).**

In Iraq, *Bactrocera zonata* (Diptera: Tephritidae - EPPO A2 List) was first found in spring 2016 in Wasit province. Later surveys using pheromone traps detected the pest in other provinces (Almuthana, Baghdad, Karbela, Najaf, Salahaldeen, Wasit) (Abdulrazak *et al.*, 2016). **Present, only in some areas (Almuthana, Baghdad, Karbela, Najaf, Salahaldeen, Wasit provinces).**

In Croatia, during surveys on grapevine viruses conducted on 9 autochthonous cultivars grown along the coast, *Grapevine Pinot gris virus (Trichovirus)* and *Grapevine red globe virus (Maculavirus)* were detected for the first time (Vončina *et al.*, 2017). **Present, no details.**

*Grapevine Pinot gris virus (Trichovirus, GPGV)* has recently been found in Australia. During 2015-2017, a total of 575 samples of grapevine (*Vitis vinifera*) were collected from commercial vineyards and tested. GPGV was detected in 6 samples from New South Wales and 3 from South Australia. All varieties (8 in total) had been imported from Europe during the last 4 to 19 years (Wu and Habili, 2017). **Present: only in some areas (New South Wales, South Australia).**

In China, during surveys on nematodes conducted in October 2015 and May 2016, *Heterodera zae* (formerly EPPO Alert List) was found in soil samples collected from a maize (*Zea mays*) field near Laibin (Guangxi). In this field (0.2 ha), maize plants showed leaf yellowing and stunting. As *H. zae* is a potential risk to maize crops, the authors noted that control measures were needed to prevent its further spread (Wu *et al.*, 2017). **Present, first specimens detected in 1 maize field (Guangxi).**

In Sudan, during surveys of citrus trees conducted in commercial orchards, nurseries and gardens from 2013 to 2014, symptoms of citrus canker were observed on lime trees (*Citrus aurantifolia*) in the state of Al Qadarif (Gadaref). High disease incidence was observed near the city of Al Qadarif. Studies have revealed the presence of a new strain of *Xanthomonas citri* subsp. *citri* (EPPO A1 List). It is concluded that further research is needed to characterize strains of *X. citri* subsp. *citri* which are present in Eastern Sudan (Abubaker *et al.*, 2016). **Present, first found in 2013 in Eastern Sudan.**

*Hypocryphalus scabricollis* and *Xyleborus bispinatus* (Coleoptera: Curculionidae) have been reported the first time in Southeastern Sicily, Italy. During the summers of 2014 and 2015, large infestations of both species were recorded in 8 locations on common fig (*Ficus carica*). These infestations caused rapid death and desiccation of many fig trees of various ages, growing individually, in small groups, or in large plantations for fruit production. In some areas, wild varieties of figs were also infested. All infested trees were cut down and burnt (Faccoli *et al.*, 2016).

The presence of the Asian hornet, *Vespa velutina* (Hymenoptera: Vespidae), is confirmed in Belgium. In November 2016, a nest was found in Guignies (south of Tournai). This first nest was destroyed but Asian hornet specimens were found in nearby localities in 2017 (Internet, 2017).

- **Host plants**

In Algeria, during studies carried out in the oasis of Ziban (Biskra region) from August 2009 to July 2011, *Tuta absoluta* (Lepidoptera: Gelechiidae - EPPO A2 List) was found for the first time on beet (*Beta vulgaris*) and spinach (*Spinacia oleracea*), as well as on the weed species *Chenopodium bonus-henricus* and *C. rubrum* (Drouai *et al.*, 2016).

- **Epidemiology**

Studies conducted in Italy during 2013-2014 suggested that *Colomerus vitis* (Acari: Eriophyidae) is a potential vector of *Grapevine Pinot gris virus* (*Trichovirus*) (Malagnini *et al.*, 2016).

- **New pests**

In Northeastern Brazil (São Francisco Valley), larvae of *Lasiothyris luminosa* (Lepidoptera: Tortricidae) were observed in 2015 causing extensive feeding damage to flowers and fruits of grapevine (*Vitis* spp.). Very little is known about the biology of *L. luminosa*. The first specimens (males) were collected in Santa Catarina (BR) and described in 1969 without any reports of feeding on grapes or any other plant. This is the first time that *L. luminosa* is reported to cause damage to a cultivated plant (and that females are observed). As its feeding behaviour is similar to that of *Lobesia botrana* (European grapevine moth) it is suggested to call it the American grapevine moth (Costa-Lima *et al.*, 2016).

Pictures of the pest and its damage to grapes can be viewed on the Internet.

<http://sic.sinavef.gob.mx/inicio/pages/single.php?noticia=2443>

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**INTERNET**

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Additional key words: new record, host plants, epidemiology, new pest

Computer codes: ANOLGL, CRYHSC, GNORAB, GPGV00, GPGV00, GRGV00, HETDZE, LASTLU, VESPVE, XANTCI, XYLBBI, AU, BE, BR, CN, DZ, HR, IT, RU, SD

## 2017/146 Quarantine list of the Eurasian Economic Union (EAEU)

The quarantine list of the Eurasian Economic Union (EAEU) which is composed of Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia was published in 2016-11-30. This list is shown below and has also been included into the EPPO Global Database.

### • List of quarantine pests which are absent from the EAEU territory (A1)

#### Insects and mites

*Acleris gloverana*  
*Acleris variana*  
*Agrilus anxius*  
*Anoplophora chinensis*  
*Anoplophora glabripennis*  
*Blissus leucopterus*  
*Callosobruchus* spp.  
*Caulophilus latinasus*  
*Ceroplastes rusci*  
*Choristoneura fumiferana*  
*Choristoneura occidentalis*  
*Chrysodeixis eriosoma*  
*Conotrachelus nenuphar*  
*Corythucha arcuata*  
*Dendroctonus brevicomis*  
*Dendroctonus ponderosae*  
*Dendroctonus rufipennis*  
*Dendroctonus valens*  
*Diabrotica barberi*  
*Diabrotica virgifera virgifera*  
*Drosophila suzukii*  
*Echinothrips americanus*  
*Epitrix cucumeris*  
*Epitrix tuberis*  
*Frankliniella fusca*  
*Frankliniella insularis*

*Frankliniella schultzei*  
*Frankliniella tritici*  
*Frankliniella williamsi*  
*Halyomorpha halys*  
*Helicoverpa zea*  
*Ips calligraphus*  
*Ips grandicollis*  
*Ips pini*  
*Ips plastographus*  
*Leptoglossus occidentalis*  
*Liriomyza huidobrensis*  
*Liriomyza langei*  
*Liriomyza nietzkei*  
*Liriomyza sativae*  
*Liriomyza trifolii*  
*Margarodes vitis*  
*Megaselia scalaris*  
*Monochamus alternatus*  
*Monochamus carolinensis*  
*Monochamus clamator*  
*Monochamus marmorator*  
*Monochamus mutator*  
*Monochamus notatus*  
*Monochamus obtusus*  
*Monochamus scutellatus*  
*Monochamus titillator*  
*Nemorimyza maculosa*  
*Pantomorus leucoloma*  
*Pectinophora gossypiella*  
*Premnotrypes* spp.  
*Pseudaulacaspis pentagona*  
*Pseudococcus citriculus*  
*Rhagoletis mendax*  
*Rhagoletis pomonella*  
*Rhizoecus hibisci*  
*Saperda candida*  
*Scirtothrips citri*  
*Scirtothrips dorsalis*  
*Spodoptera eridania*  
*Spodoptera frugiperda*  
*Spodoptera littoralis*  
*Spodoptera litura*  
*Tecia solanivora*  
*Tetranychus evansi*  
*Thrips hawaiiensis*  
*Thrips palmi*  
*Trogoderma granarium*  
*Tuta absoluta*  
*Zeugodacus cucurbitae* (*Bactrocera cucurbitae*)  
*Zygogramma exclamationis*

**Nematodes**

*Bursaphelenchus xylophilus*  
*Globodera pallida*  
*Meloidogyne chitwoodi*  
*Meloidogyne fallax*

**Fungi**

*Atropellis pinicola*  
*Atropellis piniphila*  
*Ceratocystis fagacearum*  
*Ciborinia camelliae*  
*Cochliobolus carbonum*  
*Diaporthe vaccinii*  
*Glomerella gossypii*  
*Hymenoscyphus fraxineus (Chalara fraxinea)*  
*Lecanosticta acicola (Mycosphaerella dearnessii)*  
*Monilinia fructicola*  
*Phymatotrichopsis omnivora*  
*Phytophthora alni*  
*Phytophthora kernoviae*  
*Phytophthora ramorum*  
*Puccinia pelargonii-zonalis*  
*Sirococcus clavigignenti-juglandacearum*  
*Stenocarpella macrospora*  
*Stenocarpella maydis*  
*Thecaphora solani*  
*Tilletia indica*

**Bacteria and phytoplasmas**

*Acidovorax citrulli*  
*Grapevine flavescence dorée phytoplasma ('Candidatus Phytoplasma vitis')*  
*Pantoea stewartii* subsp. *stewartii*  
*Ralstonia solanacearum*  
*Rathayibacter tritici*  
*Xanthomonas axonopodis* pv. *allii*  
*Xanthomonas oryzae* pv. *oryzae*  
*Xanthomonas oryzae* pv. *oryzicola*  
*Xylophilus ampelinus*

**Viruses and viroids**

*Andean potato latent virus (Andean potato latent tymovirus)*  
*Andean potato mottle virus (Andean potato mottle comovirus)*  
*Cherry rasp leaf virus (Cherry rasp leaf cheravirus)*  
*Peach latent mosaic viroid*  
*Peach rosette mosaic virus (Peach rosette mosaic nepovirus)*  
*Potato virus T (Potato T tepovirus)*  
*Potato yellowing virus (Potato yellowing alfamovirus)*  
*Tomato yellow leaf curl virus (Tomato yellow leaf curl begomovirus)*

**Weeds**

*Bidens pilosa*  
*Euphorbia dentata*  
*Helianthus californicus*

*Helianthus ciliaris*  
*Ipomoea hederacea*  
*Ipomoea lacunosa*  
*Iva axillaris*  
*Solanum carolinense*  
*Solanum elaeagnifolium*  
*Striga* spp.

• List of quarantine pests which are of limited distribution in the EAEU territory (A2)

Insects

*Agrilus mali*  
*Agrilus planipennis*  
*Bemisia tabaci*  
*Carposina niponensis*  
*Ceratitis capitata*  
*Ceroplastes japonicus*  
*Chrysodeixis chalcites*  
*Corythucha ciliata*  
*Dendroctonus micans*  
*Dendrolimus sibiricus*  
*Epilachna vigintioctomaculata*  
*Frankliniella occidentalis*  
*Grapholita molesta*  
*Hyphantria cunea*  
*Lopholeucaspis japonica*  
*Lymantria dispar asiatica*  
*Monochamus galloprovincialis*  
*Monochamus impluviatus*  
*Monochamus nitens*  
*Monochamus saltuarius*  
*Monochamus sutor*  
*Monochamus urusovi*  
*Myiopardalis pardalina*  
*Numonia pyrivorella*  
*Phthorimaea operculella*  
*Polygraphus proximus*  
*Popillia japonica*  
*Pseudococcus comstocki*  
*Quadraspidiotus perniciosus*  
*Viteus vitifoliae*

Nematodes

*Globodera rostochiensis*

Fungi

*Cercospora kikuchii*  
*Colletotrichum acutatum*  
*Diaporthe helianthi*  
*Phytophthora fragariae*  
*Puccinia horiana*  
*Stagonosporopsis chrysanthemi (Didymella ligulicola)*  
*Synchytrium endobioticum*

**Bacteria and phytoplasmas***'Candidatus Phytoplasma mali'**'Candidatus Phytoplasma pyri'**Erwinia amylovora***Viruses and viroids***Beet necrotic yellow vein virus (Beet necrotic yellow vein benyvirus)**Impatiens necrotic spot virus (Impatiens necrotic spot tospovirus)**Plum pox virus (Plum pox potyvirus)**Potato spindle tuber viroid**Tobacco ringspot virus (Tobacco ringspot nepovirus)**Tomato ringspot virus (Tomato ringspot nepovirus)***Weeds***Acroptilon repens**Ambrosia artemisiifolia**Ambrosia psilostachya**Ambrosia trifida**Cenchrus longispinus**Cuscuta spp.**Solanum rostratum**Solanum triflorum*

Source: EPPO Secretariat (2017-08).  
Eurasian Economic Union. Decision no. 158 (30<sup>th</sup> of November 2016) of the Council of the Eurasian Economic Commission. [https://docs.eaeunion.org/docs/en-us/01413200/cncd\\_06032017\\_158](https://docs.eaeunion.org/docs/en-us/01413200/cncd_06032017_158)

Additional key words: quarantine list

## **2017/147 EPPO communication kits: new templates for pest-specific posters and leaflets**

As a result of the work of the EPPO Panel on Plant Protection Information, new EPPO communication material has been published on the EPPO website. Templates for pest-specific posters and leaflets have been prepared. The objective of this work was to provide NPPOs with templates that could be easily adapted to different types of pest-specific information campaigns (e.g. early warning, pest reporting, containment and eradication programmes). For posters, several possible titles and types of contents have been proposed using three examples: *Agrilus planipennis*, *Popillia japonica* and huanglongbing. The example of *Popillia japonica* has been used to prepare a template leaflet, largely based on a leaflet prepared by Italy. NPPOs are expected to personalize and translate these documents to adapt them to their own needs and branding.

All templates can be downloaded from the EPPO website, and the EPPO Secretariat would very much appreciate to receive feed-back from NPPOs on their use in national information campaigns.

[https://www.eppo.int/PUBLICATIONS/poster\\_templates/poster\\_templates.htm](https://www.eppo.int/PUBLICATIONS/poster_templates/poster_templates.htm)

Source: EPPO Secretariat (2017-08).

Additional key words: communication

**2017/148 Rhynchophorus ferrugineus does not occur in Australia**

In Australia, *Rhynchophorus ferrugineus* (Coleoptera: Curculionoidea - EPPO A2 List) was recorded as present, as one specimen had been collected from Queensland. This specimen which was stored in the Australian National Insect Collection (Commonwealth Scientific and Industrial Research Organisation) has been reassessed and has been found to be a closely related species, *Rhynchophorus bilineatus*\* (formerly EPPO Alert List). In all other parts of Australia (Australian Capital Territory, New South Wales, Northern Territory, South Australia, Tasmania, Victoria, Western Australia), *R. ferrugineus* has never been recorded. The pest status for *Rhynchophorus ferrugineus* in Australia is officially declared as: **Absent: pest records invalid.**

\* According to a recent review (Pullen *et al.*, 2014), *R. bilineatus* is currently not present in Australia.

Source: NPPO of Australia (2017-07).

INTERNET

Atlas of Living Australia. <http://biocache.ala.org.au/occurrences/230cca74-ca88-4d39-9a93-b9990abd1874>

Pullen KR, Jennings D, Oberprieler RG (2014) Annotated catalogue of Australian weevils (Coleoptera: Curculionoidea). *Zootaxa* 3896, 481 pp.

Pictures: *Rhynchophorus ferrugineus*. <https://gd.eppo.int/taxon/RHYCFE/photos>

Additional key words: absence, denied record

Computer codes: RHYCFE, AU

**2017/149 Platynota stultana (Lepidoptera: Tortricidae): added again to the EPPO Alert List**

**Why:** *Platynota stultana* (Lepidoptera: Tortricidae - omnivorous leafroller) is a highly polyphagous leafroller native to Mexico and the Southwestern USA. As its potential host range includes economically important agricultural crops, ornamental plants, and even some tree species, it was included on the EPPO Alert List from 1998 to 2002 but at that time this did not trigger international phytosanitary action. However, the situation changed in Europe when its presence was first detected in 2009 in Spain. The EPPO Panel on Phytosanitary Measures and the Working Party on Phytosanitary Regulations have recommended that this pest should be added to the EPPO A2 List (the final decision will be taken by the EPPO Council in September 2017). In the meantime, it was felt useful to add again *P. stultana* to the EPPO Alert List to attract the attention of the NPPOs.

**Where:** *P. stultana* is thought to originate from semiarid regions of Northwestern Mexico (e.g. Sonora) and the adjacent Southwestern USA (e.g. Arizona). During the 20<sup>th</sup> century, it has been recorded as introduced and established in California (1920s), Hawaii (1990s) and Florida (1960s). In other Eastern and Northern US states, it is mainly recorded as a glasshouse pest and its establishment in those states on outdoor crops seems unlikely, as climatic conditions (e.g. winter temperatures) would be a limiting factor. In Europe, *P. stultana* was first found in February 2009 in Southern Spain on greenhouse capsicum crops in the province of Almería (Andalucía). It was then found in the provinces of Alicante, Granada (Andalucía) and in Murcia on glasshouse and field crops. Examination of tortricid specimens which had been caught before, suggest that *P. stultana* was probably present in Southern Spain as early

as 2005. In 2004, an incursion of a single larva (not followed by establishment) was noted in the United Kingdom on glasshouse plants of *Lantana* sp. which had been imported from the USA. Control measures were advised to the grower and the pest has not been found again.

**EPPO region:** Spain (Andalucía, Murcia).

**North America:** Mexico, USA (Arizona, Arkansas, California, Colorado, Florida, Hawaii, Illinois, Maryland, Massachusetts, Michigan, New Mexico, New York, North Carolina, Oklahoma, Oregon, Pennsylvania, Texas, Virginia).

**On which plants:** *P. stultana* is a highly polyphagous tortricid (hence its common name of 'omnivorous leafroller') which has been recorded on more than 25 plant families. Among the economically important host plants, the following species are mentioned in the literature: *Actinidia*, *Apium graveolens*, *Aster*, *Capsicum*, *Citrus limon*, *Citrus sinensis*, *Cyclamen*, *Dianthus*, *Juglans*, *Juniperus*, *Malus domestica*, *Medicago sativa*, *Phaseolus*, *Pinus*, *Prunus domestica*, *Prunus persica*, *Punica granatum*, *Pyrus*, *Rosa*, *Rubus*, *Salix*, *Solanum lycopersicum*, *Taxus*, *Trifolium*, *Vitis vinifera*, *Zea mays*. Many wild plants are listed as hosts and some of them may also be grown as ornamentals. In Spain, *P. stultana* has been recorded on *Capsicum annuum* (sweet pepper), *Solanum melongena* (aubergine), *Ocimum* spp. (basil).

**Damage:** larvae of *P. stultana* feed on leaves. Leaves are rolled and tied by silk, as they construct their nests. In the literature, there is little information about the current severity of damage and economic losses caused by *P. stultana* in Mexico and the USA. In the 1970s, it was recorded as an important pest of grapevine in the San Joaquin Valley, California. On grapevine, larvae feed on leaves, flowers, and fruit. Feeding activities on berries favoured bunch rot which caused substantial reduction in yield (e.g. 25-80% loss). In Spain, for the moment there are no records of economic damage. The pest has mostly been observed on *C. annuum*. Larvae feed on the underside on the leaves, consuming the epidermis and mesophyll. Some damage has been described when larvae penetrate into capsicum fruit via the peduncle and bore galleries inside the fruit.

In North America where populations are established, *P. stultana* completes 4-6 generations per year, and adults may be present almost all year round. Eggs are laid in masses containing an average of 97 eggs per mass. Each female can lay from 100 to 600 eggs during its lifetime. Newly hatched larvae move towards the top of the plant and feed within a bud or between two leaves. Young larvae may also disperse to other hosts by ballooning in the wind on a silk thread. Later instars feed within a shelter constructed of rolled or folded leaves. Larvae complete 5 to 6 instars within a period of 20-30 days (in greenhouse conditions). Late instar larvae are approximately 12-15 mm long with a cream-colored, translucent abdomen. Larvae of the last generation overwinter in webbed nests. Pupation takes place in a rolled leaf. Adults are brownish moths with a wingspan of 2 to 2.5 cm.

Pictures can be viewed on the Internet:

<https://www.ipmimages.org/browse/subthumb.cfm?sub=62856>

[http://idtools.org/id/leps/tortai/Platynota\\_stultana.htm](http://idtools.org/id/leps/tortai/Platynota_stultana.htm)

**Dissemination:** the flight capacity of *P. stultana* is not known but in general tortricids fly relatively short distances (e.g. 50-100 m). In international trade, *P. stultana* has often been intercepted on capsicum fruit from Mexico. Although the pathway of introduction of the pest into Spain remains unknown, it clearly shows that the pest has been able to move from one continent to another, most probably via movements of plants.

**Pathway:** plants for planting, cut flowers and branches, fruit of host plants from countries where the pest occurs.

**Possible risks:** considering the wide host range of *P. stultana*, this pest has the potential to damage many cultivated and wild plants in the EPPO region. However, there is still some

uncertainties about the level of damage and economic losses it can cause. Its introduction into Spain clearly demonstrates that it has the potential to enter and establish in the Southern and Mediterranean parts of the EPPO region. In other parts of the EPPO region, the pest is unlikely to establish outdoors but could be a threat to many glasshouse productions.

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Additional key words: Alert List

Computer codes: PLAAST

**2017/150 First report of *Puccinia hemerocallidis* in Portugal**

*Puccinia hemerocallidis* (EPPO A2 List) is reported for the first time in Portugal. In November 2015, rust symptoms were observed on daylily plants (*Hemerocallis* sp.) in gardens in the areas of Lisbon and Tavira (mainland Portugal), and in Funchal (Madeira island). A study was conducted and the disease was found on *H. lilioasphodelus* in 6 out of the 9 gardens surveyed, with an incidence reaching 85 to 90%. Bright orange pustules, often covering a large part of the leaves (25 to 75% of leaf surface), were observed. Laboratory analysis (morphology, pathogenicity tests) confirmed the identity of the fungus. The authors noted that this first report in Portugal is also a first record for Europe. The possible dissemination of *P. hemerocallidis* into the European daylily industry, with over 2 000 European-bred cultivars, raises concerns.

The situation of *Puccinia hemerocallidis* in Portugal can be described: **Present, first found in 2014 in several gardens in mainland Portugal and Madeira.**

Source: Silva E, Carvalho R, Nunes N, Ramos AP, Talhinhos P (2016) First report of *Puccinia hemerocallidis* causing daylily rust in Europe. *Plant Disease* 100(10), p 2163.  
<http://apsjournals.apsnet.org/doi/full/10.1094/PDIS-02-16-0242-PDN>

Additional key words: new record

Computer codes: PUCCHM, PT

**2017/151 First report of *Pantoea stewartii* in Malaysia**

In Malaysia, a new bacterial disease of jackfruit (*Artocarpus heterophyllus*) called 'jackfruit bronzing' has increasingly been observed. Symptoms are characterized by a yellowish-orange to reddish discoloration of the pulp and axis inside the fruit. In April 2016, diseased jackfruit samples showing bronzing symptoms were collected in a plantation in Muadzam Shah (Pahang state, peninsular Malaysia). Laboratory studies (isolation, PCR, pathogenicity tests) confirmed the presence of *Pantoea stewartii* (EPPO A2 List) in symptomatic samples.

The situation of *Pantoea stewartii* in Malaysia can be described as follows: **Present, occurrence confirmed in 2016 in one jackfruit plantation (Pahang state, peninsular Malaysia).**

Source: Zulperi D, Manaf N, Ismail SI, Karam DS, Yusof MT (2017) First report of *Pantoea stewartii* subsp. *stewartii* causing fruit bronzing of jackfruit (*Artocarpus heterophyllus*), a new emerging disease in Peninsular Malaysia. *Plant Disease* 101(5), p 831.

Pictures: *Erwinia stewartii*. <https://gd.eppo.int/taxon/ERWIST/photos>

Additional key words: new record

Computer codes: ERWIST, MY

**2017/152 Citrus leprosis disease is associated with several viruses**

Citrus leprosis (EPPO A1 List) is a viral disease of citrus crops causing severe defoliation, girdled limbs, premature fruit drops, twig dieback, reduction in both fruit quality and yield, as well as tree death. It is an emerging disease which is currently spreading in the Americas. Citrus leprosis is a complex disease, transmitted by mites in the genus *Brevipalpus*. Disease symptoms are associated with two taxonomically distinct classes of viruses:

- positive-sense RNA and cytoplasmic viruses: *Citrus leprosis virus C* (*Cilevirus*, CiLV-C), *Citrus leprosis virus C2* (*Cilevirus*, CiLV-C2) and *Hibiscus green spot virus 2* (*Higrevirus*, HGSV-2);
- negative-sense RNA and nuclear viruses: *Citrus leprosis virus N* (*Dichoravirus*, CiLV-N), *Citrus necrotic spot virus* (*Dichoravirus*, CiNSV).

According to the literature, the geographical distribution of these viruses is as follows (the cytoplasmic type viruses being the most prevalent and widely distributed):

CiLV-C: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Uruguay, Venezuela.

CiLV-C2: Colombia.

CiLV-N: Brazil, Colombia, Mexico, Panama.

CiNSV: Colombia, Mexico.

HGSV-2: USA (Hawaii).

These five viruses have been recorded on the following host plants:

CiLV-C: *Citrus sinensis*, *C. paradisi*, *C. reticulata*. Also found in *Swinglea glutinosa* and *Commelina benghalensis*.

CiLV-C2: *C. sinensis*. Also found in *Dieffenbachia* sp., *Hibiscus rosa-sinensis* and *Swinglea glutinosa*.

CiLV-N: *C. aurantiifolia*, *C. aurantium*, *C. latifolia*, *C. limetta*, *C. limon*, *C. paradisi*, *C. reticulata*, *C. sinensis*.

CiNSV: *C. aurantium*, *C. paradisi*, *C. sinensis*, *C. tangerina*.

HGSV-2: *C. reticulata*, *C. sinensis*, *C. volkameriana*. Also found in *Hibiscus arnottianus* and *H. tiliaceus*.

**Source:** Cruz-Jaramillo JL, Ruiz-Medrano R, Rojas-Morales L, Lopez-Buenfil JA, Morales-Galvan O, Chavarin-Palacio C, Ramirez-Pool JA, Xoconostle-Cazares B (2014) Characterization of a proposed Dichoravirus associated with the Citrus leprosis disease and analysis of the host response. *Viruses* 6, 2602-2622.

Roy A, Hartung JS, Schneider WL, Shao J, Leon G, Melzer MJ, Beard JJ, Otero-Colina G, Bauchan GR, Ochoa R, Bransky RH (2015) Role bending: complex relationships between viruses, hosts, and vectors related to citrus leprosis, an emerging disease. *Phytopathology* 105(7), 1013-25.

**Pictures:** Citrus leprosis virus. <https://gd.eppo.int/taxon/CILV00/photos>

**Additional key words:** aetiology

**Computer codes:** CILV00, CILVC0, CILVC2, CILVN0, CINSV0, HGSV20

### 2017/153 *Brevipalpus phoenicis*, vector of citrus leprosis, is a species complex

Citrus leprosis (EPPO A1 List) is an economically important virus disease currently spreading in the Americas, associated with several virus species, and which is transmitted by mite species in the genus *Brevipalpus*, and more specifically by *Brevipalpus phoenicis* (Acari: Tenuipalpidae). Several studies (morphological and molecular) have indicated that *B. phoenicis* does not correspond to a single taxon but most probably to a species complex. In addition, the situation has been confused over the years by the lack of precise descriptions leading to numerous misidentifications, in particular to many confusions between *B. phoenicis* and *B. obovatus*. All these taxonomic and diagnostic difficulties have rendered data on geographical distribution, host range and epidemiology very uncertain. The taxonomy of *B. phoenicis* has been revised by conducting careful re-examination of numerous

voucher specimens with electron microscopy (LT-SEM,). Several groups previously placed within *B. phoenicis* sensu lato have been elevated to species rank, new synonymies have been established, and other previously described species are now considered to be part of this species complex. It is proposed that the *Brevipalpus phoenicis* sensu lato is composed of the following species:

- *Brevipalpus azores* sp. nov.
- *Brevipalpus feresi* sp. nov.
- *Brevipalpus ferraguti* sp. nov.
- *Brevipalpus hondurani*
- *Brevipalpus papayensis*
- *Brevipalpus phoenicis* sensu stricto
- *Brevipalpus tucuman* sp. nov.
- *Brevipalpus yothersi*

In these studies, geographical distributions and host plants are provided for these 8 species and can be retrieved in the EPPO Global Database. Among these species, it is noted that *B. yothersi* has a strong association with citrus leprosis disease. The complexities of the virus-vector-host interactions for this species complex illustrate the importance of taxonomy and diagnostic in understanding an economically important disease of citrus.

**Source:** Beard JJ, Ochoa R, Braswell WE, Bauchan GR (2015) *Brevipalpus phoenicis* (Geijskes) species complex (Acari: Tenuipalpidae) - a closer look. *Zootaxa* 3944(1), 67 pp. DOI: 10.11646/zootaxa.3944.1.1

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**Additional key words:** taxonomy

**Computer codes:** BRVPAZ, BRVPFE, BRVPFR, BRVPHO, BRVPPH, BRVPTU, BRVPYO, PRVPST

**2017/154 The suppressive potential of some grass species on the growth and development of *Ambrosia artemisiifolia***

*Ambrosia artemisiifolia* (Asteraceae: EPPO List of Invasive Alien Plants) is a North American native species and an alien species in Europe. It competes strongly with crop plants for water and nutrients. It rapidly impoverishes the soil. It can reduce yields of cereals and other field crops (e.g. sunflower), and causes problems in harvesting. Its presence greatly reduces the fodder quality of meadows and pastures (it is not palatable to livestock), and taints dairy products if cattle feed on it. In addition, the pollen of *A. artemisiifolia* is strongly allergenic in man, causing serious 'hay fever' in infested areas. The aim of the current study was to test the suppressive potential of some perennial grasses on the growth and seed production of *A. artemisiifolia*. Both greenhouse and outdoor pot trials were conducted with different combinations of the grass species- *Lolium perenne*, *Dactylis glomerata* and *Phleum pratense*. Fresh weight of biomass per plot, height of plants and the number of *A. artemisiifolia* plants were recorded three times in 2010–2011 in the greenhouse experiments and four times in 2011–2012 in the outdoor trials. At the end of each vegetation season, the seeds of *A. artemisiifolia* in each pot were collected and counted. The results showed that all three grass species can effectively suppress the growth and seed formation in *A. artemisiifolia*, but *L. perenne* developed more rapidly from the first year, and thus expressed its suppressive capacity earlier than the other two species. The study offers an effective means for control of *A. artemisiifolia* in waste lands and disturbed areas by combining the use of competitive perennial tuft-forming grasses and discontinued soil disturbance.

Source: Vladimirov V, Valkova M, Maneva S, Milanova S (2017) The suppressive potential of some grass species on the growth and development of *Ambrosia artemisiifolia*. *Bulgarian Journal of Agricultural Science* 23(2), 274-279.

Pictures: *Ambrosia artemisiifolia*. <https://gd.eppo.int/taxon/AMBEL/photos>

Additional key words: invasive alien plants

Computer codes: DACGL, AMBEL LOLPE, PHLPR, RS

**2017/155 *Bidens subalternans* in the EPPO region: addition to the EPPO Alert List****Why**

*Bidens subalternans* (Asteraceae) is native to South America and was first recorded in Europe from Belgium in 1903. Although recorded from a number of EPPO countries, the species can often be confused with closely related congeners (for example *B. bipinnata*) and is often recorded as a rare ephemeral species. A better understanding of the occurrence of the species throughout the EPPO region along with reports of impacts is desirable.

**Geographical distribution**

EPPO region: Belgium, Croatia, France, Italy, Russia, Serbia, Spain, Switzerland.

South America: Argentina (native), Bolivia (native), Brazil (native), Chile, Colombia (native), Paraguay (native), Uruguay.

Asia: Republic of Korea.

Oceania: Australia.

**Morphology**

*B. subalternans* is an annual, herbaceous plant with an erect and branched stem. The stem is 40-100 cm, 4-angled, glabrous or sparsely hairy. Leaves are petiolate, 6-21 cm long, 2-pinnatisect or simply incised; lobes with short, dense or sparse hairs, more or less dentate,

or coarsely serrate, oblong-lanceolate or oblong-linear, acuminate. Capitula terminal, solitary, at the time of flowering 8-10 × 5-6 mm, at the time of fructification up to 17 × 16 mm; peduncles 1-4 cm long. Achenes numerous, 30-50, linear, 4-angled, furrowed, blackish, glabrous or sparsely hairy at apex. Flowering in August to October, fruiting in September and October.

### Biology and ecology

Throughout its native and introduced range, seed production is very high and dispersal can occur up to 50 m from the parent plant facilitated by wind.

### Habitats

In many countries, *B. subalternans* can invade a variety of habitats including stream and river banks, ruderal habitats, coastlines, roadsides, vineyards, olive groves and gardens and parks. The population of *B. subalternans* in Serbia was recorded from the town of Niš in the central railway station in ruderal habitats around the abandoned tracks and platforms. The population, which covers an area of several hundred square metres, is thought to have been established for several years now even though management measures (manual and chemical control) have been applied to the site every year to facilitate the functionality of the railway infrastructure.

### Pathways for movement

*B. subalternans* has been historically recorded as a wool contaminant but more recent reports associated the species with grain importation.

### Impacts

*B. subalternans* is reported to invade agricultural habitats in Serbia but to-date yet there are no data to show impacts on crop yields or biodiversity.

### Control

There are few reports on the management of *B. subalternans* using chemical or manual control methods. It is reported that the species can become resistant to some herbicides especially those that include acetolactate synthase inhibitors.

Source: Bogosavljević SS, Zlatković BK (2015) Two alien species of *Bidens* (Compositae), new to the flora of Serbia. *Phytologia Balcanica* 21(2), 129-138.

Manual of the alien plants of Belgium (2017) *Bidens subalternans*.  
<http://alienplantsbelgium.be/content/bidens-subalternans>

Additional key words: invasive alien plants, alert list

Computer codes: BIDSU, BE, RS

**2017/156 Abiotic constraints and biotic resistance control the establishment success of *Humulus scandens***

*Humulus scandens* (Cannabaceae: EPPO List of Invasive Alien Plants) is an annual climber vine originating from East Asia. Within the EPPO region, it is only recorded in France, Hungary and Italy where it showed invasive behavior. *H. scandens* reproduces by wind and water dispersed seeds. Preferring moist soils, it can form dense stands in floodplains and along stream banks and lake shores, but can also thrive in disturbed areas such as roadsides and urban lots. It can be found in full sun or shade. In the current study, the authors set out to determine what is the influence of increasing resource availability on the performance and plasticity of *H. scandens* compared to a functionally similar co-occurring native species? A survey was conducted along the River Gardon (Southern France) where detailed measurements of the population along with soil characteristics, light availability, and vegetation cover was taken. A greenhouse experiment was conducted to compare the performance of *H. scandens* to *Galium aparine* along a gradient of increasing water and nitrogen availability. *H. scandens* performed better and showed higher plasticity in plant height than *G. aparine* under increased resource availability while the biomass did not differ in the lower part of the resource gradient. The study shows that by combining field and experimental studies at different life stages, a more complete understanding of how ecological filters shape successful invasions in the course of the plant life cycle can be gained.

**Source:** Fried G, Mahaut L, Pinston A, Carboni M (2017) Abiotic constraints and biotic resistance control the establishment success and abundance of invasive *Humulus japonicus* in riparian habitats. *Biological Invasions*. DOI: 10.1007/s10530-017-1533-y.

**Pictures:** *Humulus scandens*. <https://gd.eppo.int/taxon/HUMJA/photos>

**Additional key words:** new record, invasive alien plants

**Computer codes:** HUMJA, FR