

ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION

# **EPPO** Reporting Service

### No. 6 PARIS, 2017-06

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#### 2017/112 PQR - the EPPO database on guarantine pests: a new update is available!

PQR - the EPPO database on quarantine pests (geographical distributions, host plants, regulatory status, pathways, and pictures) was updated on 2017-06-08. This new update can be downloaded by clicking on the following link (if you have already installed PQR on your computer, it will simply replace the earlier version): <u>http://newpqr.eppo.int/download.php</u>

Much data has been added since the previous update (2016-05-25), the list below is not exhaustive but provides some examples of newly added items:

- World distributions: e.g. Aleurolobus marlatti, Euwallacea fornicatus sensu lato, Fusarium euwallaceae, Gymnandrosoma aurantianum, Igutettix oculatus, Neodiprion abietis, Penthimiola bella, Rose rosette virus, Xylosandrus compactus, Zaprionus indianus, Zaprionus tuberculatus.
- Pest and plant pictures: e.g. Anthomonus eugenii, Aporia crataegi, Cameraria ohridella, Castor fiber, Citrus exocortis viroid, Coccinella septempunctata, Cyperus rotundus, Daucus carota subsp. sativus, Halyomorpha halys, Helicoverpa sp., Hemileia vastatrix, Leptinotarsa decemlineata, Liriomyza sativae, Lycorma delicatula, Pistia stratiotes, Potato virus Y and PVY<sup>NTN</sup>, Prosopis juliflora, Quercusia quercus, Salvinia molesta, Setosphaeria turcica, Solanum tuberosum, Synanthedon vespiformis, Taxodium distichum, Ternstroemia gymnanthera, Ustilago maydis, Vanessa atalanta, Viteus vitifoliae, Xanthomonas axonopodis pv. allii, Xanthomonas perforans, Xylosandrus compactus.

The EPPO Secretariat takes this opportunity to thank all photographers who have kindly provided their photos. More would be most welcome and can easily be uploaded via the EPPO Global Database!

• All recent data from the EPPO Reporting Service (April 2016 to May 2017) and updated pest statuses sent by several NPPOs of EPPO member countries.

PQR and EPPO Global Database (GD) share the same data on geographical distributions, host plants, regulatory status, pathways, and pictures (data is entered only once by the EPPO Secretariat). The main differences are that PQR and GD use different technologies to access and display the information, and that GD contains more pest-specific documents (e.g. EPPO Standards, Datasheets, PRAs). PQR is a software which has to be installed on PCs, and as a consequence, it can only be updated at regular intervals when new versions are prepared and released by the EPPO Secretariat. EPPO Global Database is a web-based database which is updated in real-time but an Internet connexion is always needed.

Source: EPPO Secretariat (2017-06).

More explanations about PQR can also be found on the EPPO website: <u>http://www.eppo.int/DATABASES/pqr/pqr.htm</u>

Practical guide to upload photos via the EPPO Global Database. <u>https://gd.eppo.int/media/files/photos\_user-guide.pdf</u>

Additional key words: database, EPPO

#### 2017/113 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

*Cowpea mild mottle virus* (*Carlavirus*, CPMMV - EU Annexes) has recently been reported from Australia. The virus has been detected in Queensland in 2 locations (Fassifern and Lockyer Valley, Queensland) on common bean (*Phaseolus vulgaris* cv. Wyatt), soybean (*Glycine max*) and chia (*Salvia hispanica*). In Fassifern, the disease incidence in common bean crops was high (50 to 90% symptomatic plants).

The pest status of *Cowpea mild mottle virus* (*Carlavirus*) in Australia is officially declared as: **Present: only in some areas** (IPPC, 2017).

*Meloidogyne enterolobii* (EPPO A2 List) is reported for the first time from Nigeria. During a nematode survey, tubers of *Dioscorea rotundata* (yam) showing galls were collected from markets and farmer's fields from November 2012 to February 2013. Laboratory analysis (isozyme patterns, PCR, pathogenicity tests) confirmed the identity of the nematode in samples collected from the Nigerian states of Anambra, Niger and Abuja (Federal Capital Territory). This is also the first time that *M. enterolobii* is found causing galls on *D. rotundata* (Kolombia *et al.*, 2016).

The situation of *Meloidogyne enterolobii* in Nigeria can be described as follows: **Present:** only in some areas.

#### • Detailed records

In Australia, *Liriomyza sativae* (Diptera: Agromyzidae - EPPO A2 List) has been found on Cape York Peninsula in Queensland. Eradication is not considered feasible but measures are being taken to prevent any further spread (IPPC, 2017).

The pest status of *Liriomyza sativae* in Australia is officially declared as: **Present: subject** to official control (IPPC, 2017).

In Australia, *Xylosandrus crassiusculus* (Coleoptera: Scolyticae - EPPO Alert List) has been detected 5 times in Queensland. Due to the distance between the detection sites and the broad host range of *X. crassiusculus*, its eradication is not considered to be feasible. The pest status of *Xylosandrus crassiusculus* in Australia is officially declared as: **Present:** only in some areas (IPPC, 2017).

#### Host plants

In Pakistan, *Tomato leaf curl New Delhi virus (Begomovirus*, EPPO Alert List) has been detected in a soybean (*Glycine max*) field in Faisalabad. Affected plants showed severe leaf curling, vein thickening and leaf yellowing (Jamil *et al.*, 2017).

In the Czech Republic, *Little cherry virus 1* (*Velarivirus*, LChV-1 - EU Annexes) has been found in apricot (*Prunus armeniaca*). During a survey carried out in a germplasm collection located in Lednice in summer 2016, the virus was detected in 5 cultivars. These trees were

not showing any obvious symptoms, such as leaf discoloration or fruit quality reduction. (Šafářová et al., 2017).

#### • New pests and taxonomy

Blueberry fruit drop disease was first detected in blueberry (*Vaccinium* spp.) plants in British Columbia (Canada) in the late 1990s, and in a single field in Northern Washington state (USA) in 2012. On infected plants, young leaves show a transient red coloration of the veins during the blooming period, and flowers display red stripes on their corollas. After bloom, plants appear normal but abort nearly 100% of their fruit, approximately 3 weeks before harvest when the berries are 3-5 mm in diameter. Recent studies have shown that the causal agent of blueberry fruit drop disease is a new virus species, belonging to the Caulimoviridae family and probably representing a new genus, which has been called *Blueberry fruit drop-associated virus*. Studies are being done to determine whether this virus also occurs in native vegetation adjacent to infected blueberry fields. In addition, efforts are being made in collaboration with growers to eradicate this virus (Diaz-Lara and Martin, 2016).

A new species of *Liberibacter*, tentatively called '*Candidatus* Liberibacter brunswickensis' has been identified in *Acizzia solanicola* (Hemiptera: Psyllidae - Australian eggplant psyllid). This is the first time that a *Liberibacter* species is found in Australia, as well as in the psyllid genus *Acizzia*. For the moment, '*Ca.* L. brunswickensis' has not been associated with any plant disease. *A. solanicola* is a psyllid species, first described in 2010, native to Australia which has also been found in New Zealand. It is noted that it has broadened its host range from *Solanum pterophilum* (its native host) to other introduced solanaceous plants, such as *Solanum melongena* (aubergine), *Brugmansia* sp., *Physalis peruviana*, and *S. mauritianum*. Further studies about the biology, host range and distribution of '*Ca.* L. brunswickensis' will be carried out (Morris *et al.*, 2017).

Sources: Diaz-Lara A, Martin RR (2016) Blueberry fruit drop-associated virus: a new member of the family Caulimoviridae isolated from blueberry exhibiting fruit-drop symptoms. *Plant Disease* 100(11), 2211-2214.

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- IPPC website. Official Pest Reports Australia (2017-04-24) Detection of *Liriomyza sativae* in Far North Queensland. https://www.ippc.int/en/countries/australia/pestreports/2017/04/detection-of-liriomyza-sativae-in-far-north-queensland/
- IPPC website. Official Pest Reports Australia (2017-04-24) Detection of *Xylosandrus crassiusculus* (Granulate ambrosia beetle) in Queensland. <u>https://www.ippc.int/en/countries/australia/pestreports/2017/04/detection-of-</u> <u>xylosandrus-crassiculus-granulate-ambrosia-beetle-in-gueensland/</u>

IPPC website. Official Pest Reports - Australia (AUS-83/1 of 2017-05-17) Detection of *Cowpea mild mottle virus* (*Carlavirus*) in Queensland. <u>https://www.ippc.int/en/countries/australia/pestreports/2017/05/detection-of-</u> cowpea-mild-mottle-virus-carlavirus-in-gueensland/

- Jamil N, Rehman A, Hamza M, Hafeez A, Ismail H, Zubair M, Mansoor S, Amin I (2017) First report of *Tomato leaf curl New Delhi virus*, a bipartite begomovirus, infecting soybean (*Glycine max*). *Plant Disease* **101**(5), p 845.
- Kolombia YA, Lava Kumar P, Claudius-Cole AO, Karssen G, Viaene N, Coyne D, Bert W (2016) First report of *Meloidogyne enterolobii* causing tuber galling damage on white yam (*Dioscorea rotundata*) in Nigeria. *Plant Disease* **100**(10), 2171-2174.
- Morris J, Shiller J, Mann R, Smith G, Yen A, Rodoni B (2017) Novel 'Candidatus Liberibacter' species identified in the Australian eggplant psyllid, Acizzia solanicola. Microbial Biotechnology. doi:10.1111/1751-7915.12707

Šafářová D, Faure C, Candresse T, Navrátil M, Nečas T, Marais A (2017) First report of *Little cherry virus 1* infecting apricot in the Czech Republic. *Plant Disease* 101(5), p 845.

Additional key words: new record, detailed record, diagnostic, new host plant, new pest, taxonomy

Computer codes: ACIZSO, BFDAV0, CPMMV0, LCHV10, LIBENE, LIRISA, MELGMY, TOLCND, XYLBCR, AU, CA, CZ, NG, PK, US

#### 2017/114 EPPO report on notifications of non-compliance

The EPPO Secretariat has gathered below the notifications of non-compliance for 2017 received since the previous report (EPPO RS 2017/054). Notifications have been sent via Europhyt for the EU countries and Switzerland. The EPPO Secretariat has selected notifications of non-compliance made because of the detection of pests. Other notifications of non-compliance due to prohibited commodities, missing or invalid certificates are not indicated. It must be pointed out that the report is only partial, as many EPPO countries have not yet sent their notifications. When a consignment has been re-exported and the country of origin is unknown, the re-exporting country is indicated in brackets. When the occurrence of a pest in a given country is not known to the EPPO Secretariat, this is indicated by an asterisk (\*).

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Agromyzidae	Verbena hybrids	Cuttings	Brazil	Spain	1
Aleurocanthus spiniferus	Camellia japonica	Plants for planting	China	Netherlands	1
Aleyrodidae	Sutera	Cuttings	Uganda	Spain	1
Andean potato latent virus, Arracacha virus B, Potato virus A, Potato virus V, Potato virus X, Potato virus Y, Potato yellowing virus	Solanum tuberosum	Ware potatoes	Peru	Italy	1
Anthonomus eugenii	Capsicum Capsicum annuum Capsicum annuum Solanum melongena	Vegetables Vegetables Vegetables Vegetables	Mexico Mexico Mexico Dominican Rep.	United Kingdom Netherlands United Kingdom Netherlands	1 1 1 2
Atherigona orientalis, Helicoverpa armigera	Capsicum annuum	Vegetables	Mauritius	France	1
Bactericera cockerelli	Solanum	Vegetables	Mexico	United Kingdom	1
Bemisia	Capsicum annuum Solanum melongena Solanum melongena var. serpentinum Monarda	Vegetables Vegetables Vegetables Cuttings	Egypt Mexico Mexico Costa Rica	United Kingdom United Kingdom United Kingdom United Kingdom	1 1 1
Bemisia afer	Manihot esculenta	Vegetables (leaves)	Congo, Dem. Rep. of	France	1
Bemisia tabaci	Ajuga reptans Amaranthus	Cuttings Vegetables (leaves)	Kenya Nigeria	Netherlands United Kingdom	2 1

Pest	
<i>B. tabaci</i> (cont.)	)

Consid	nment
Consig	minerit

Amaranthus, Telfairia, Vernonia amygdalina Apium graveolens Capsicum Capsicum annuum Capsicum frutescens . Cardamine Cestrum Chlorophytum Corchorus Corchorus Corchorus olitorius Corchorus olitorius, Hibiscus Corchorus olitorius, Vernonia amygdalina Corchorus, Ocimum, Telfairia occidentalis Corchorus, Solanum, Telfairia occidentalis Corchorus, Telfairia Corchorus, Telfairia occidentalis Crossandra infundibuliformis Echinacea Echinodorus Eryngium Eryngium Eryngium foetidum Euphorbia milii Euphorbia pulcherrima Euphorbia pulcherrima Eustoma Eustoma, Trachelium Heliopsis Hibiscus Hibiscus Hibiscus rosa-sinensis Hibiscus sabdariffa Houttuynia cordata Hygrophila corymbosa Hyptis, Polygonum Ipomoea aquatica Lantana camara Lavandula angustifolia Limnophila aromatica Lisianthus alatus Mandevilla Mandevilla Mandevilla splendens

Type of commodity	Country of origin	Destination	nb
Vegetables (leaves)	Nigeria	United Kingdom	1
Vegetables	Thailand	Sweden	1
Vegetables	Egypt	United Kingdom	3
Vegetables	Turkey	United Kingdom	1
Vegetables	Turkey	United Kingdom	3
Cuttings	Malavsia	United Kingdom	1
Vegetables	Suriname	Netherlands	5
Cuttings	Sri Lanka	Netherlands	1
Venetables	Malavsia	United Kingdom	1
Venetables	Nigeria	United Kingdom	8
Vegetables	India	United Kingdom	1
Vegetables	lordan	Sweden	1
Vegetables	Jordan	United Kingdom	1
Vogotablos	Malaysia	United Kingdom	2
Vogotablos	Nigoria	United Kingdom	5
Vegetables	Viotnam	United Kingdom	1
Vegetables (leaves)			1
Vegetables (leaves)	10y0 Nigorio	Delylulli Upitod Kingdom	1
vegetables	Nigena	United Kingdom	I
Vegetables (leaves)	Nigeria	United Kingdom	1
Vegetables (leaves)	Nigeria	United Kingdom	1
Vegetables (leaves)	Nigeria	United Kingdom	1
Vegetables (leaves)	Nigeria	United Kinadom	1
Vegetables (leaves)	Nigeria	United Kingdom	1
Plants for planting	Netherlands	United Kingdom	2
		June 1	
Cuttings	India	Netherlands	1
Plants for planting	Malaysia	United Kingdom	1
Vegetables (leaves)	Cambodia	United Kingdom	1
Vegetables (leaves)	Laos	France	1
Vegetables (leaves)	Laos	France	1
Cuttings	Sri Lanka	Denmark	1
Plants for planting	Greece	Bulgaria	1
Plants for planting	Netherlands	United Kingdom	1
Cut flowers	Israel	Netherlands	1
Cut flowers	Israel	Netherlands	1
Cuttings	Costa Rica	United Kingdom	1
Plants for planting	Netherlands	United Kingdom	4
Vegetables	Nigeria	United Kingdom	2
Plants for planting	Netherlands	United Kingdom	2
Vegetables	Nigeria	United Kingdom	3
Cuttings	Malaysia	United Kingdom	1
Plants for planting	Malaysia	United Kingdom	1
Vegetables (leaves)	Laos	Germany	1
Vegetables	Thailand	United Kingdom	1
Cuttings	Kenya	Germany	1
Cuttings	Tanzania	Netherlands	1
Vegetables (leaves)	Ihailand	Switzerland	1
Cut flowers	Netherlands	United Kingdom	1
Plants for planting	Netherlands	United Kingdom	2
Cuttings	Israel	Netherlands	1
Plants for planting	Italy	United Kingdom	3

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
<i>B. tabaci</i> (cont.)	Mandevilla splendens	Plants for planting	Netherlands	United Kingdom	3
	Manihot	Vegetables	Indonesia	Netherlands	1
	Manihot esculenta	Fruits	Cameroon	Belgium	1
	Manihot esculenta	Fruits	Sierra Leone	United Kingdom	1
	Manihot esculenta,	Vegetables	Nigeria	United Kingdom	1
	Corchorus olitorius,	-	-	-	
	Ipomoea batatas, Ocimum				
	gratissimum				
	Mentha	Vegetables (leaves)	Israel	Netherlands	1
	Mentha	Vegetables (leaves)	Laos	Netherlands	2
	Mentha arvensis	Vegetables (leaves)	Vietnam	Switzerland	4
	Momordica	Vegetables	Mexico	United Kingdom	1
	Monarda	Cuttings	Costa Rica	United Kingdom	2
	Morinda citrifolia	Fruits	Thailand	Ireland	1
	Nerium oleander	Plants for planting	Italy	United Kingdom	1
	Nerium oleander	Plants for planting	Netherlands	United Kingdom	1
	Nerium oleander	Plants for planting	Spain	United Kingdom	6
	Ocimum	Vegetables (leaves)	Israel	United Kingdom	1
	Ocimum	Vegetables (leaves)	Nigeria	United Kingdom	2
	Ocimum	Vegetables (leaves)	Spain (Canary Isl.)	United Kingdom	1
	Ocimum	Vegetables (leaves)	Thailand	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	Israel	United Kingdom	2
	Ocimum basilicum	Vegetables (leaves)	Mexico	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	Spain (Canary Isl.)	United Kingdom	2
	Ocimum basilicum	Vegetables (leaves)	Thailand	Austria	1
	Ocimum gratissimum	Vegetables (leaves)	Nigeria	United Kingdom	3
	Ocimum gratissimum,	Vegetables (leaves)	Nigeria	United Kingdom	2
	Corchorus, Solanum				
	Ocimum tenuiflorum	Vegetables (leaves)	Laos	Sweden	1
	Ocimum tenuiflorum	Vegetables (leaves)	Malaysia	Netherlands	6
	Ocimum tenuiflorum	Vegetables (leaves)	Vietnam	Switzerland	1
	Origanum vulgare	Vegetables (leaves)	Israel	Netherlands	3
	Oxypetalum	Cut flowers	Israel	Netherlands	2
	Pachystachys	Cuttings	Brazil	Netherlands	1
	Pandanus	Vegetables (leaves)	I hailand	Belgium	1
	Persicaria odorata	Vegetables (leaves)	China (Hong Kong)	Netherlands	1
	Persicaria odorata	Vegetables (leaves)	Laos	Netherlands	2
	Piper sarmentosum		Malaysia	Netherlands	2
	Polygonum	Vegetables (leaves)	Laos	United Kingdom	1
	Rumex acelosa	Vegetables (leaves)	Nigeria	United Kingdom	1
	Rumex rugosus	Vegetables (leaves)	Nigeria	United Kingdom	2
	Rumex, Solanum	vegetables (leaves)	Nigeria	United Kingdom	I
	maciocarpon, vernoma				
	annyguanna Salvia	Cuttings	Costa Disa	Donmark	1
	Salvia	Vagatablas (laguas)	CUSIA RILA	Deninark	1
	Salvia	Vegetables (leaves)	Morocco	Switzorland	1
	Salvia Salvia officinalis	Vegetables (leaves)	Israol	Nothorlands	1
	Scutollaria	Diants for planting	Nothorlands	United Kingdom	2
	Solanum	Vonotablos	Togo	Bolgium	3 2
	Solanum macrocarnon	Vegetables	Nigoria	United Kingdom	2 10
	Solanum melongena	Venetahles	Mexico	United Kingdom	10 2
	Solanum Vernonia	Plants for planting	Nigeria	United Kingdom	∠ 1
	amvadalina		nigona		I
	Solidago	Cut flowers	Kenva	Netherlands	1
	Telfairia	Venetables	Nigeria	United Kingdom	، ۲
	Telfairia occidentalis	Vegetables	Nigeria	United Kingdom	12
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Pest	Consignment	Type of commodity	Country of origin	Destination	nb
B. tabaci (cont.)	Telfairia occidentalis,	Vegetables	Nigeria	United Kingdom	1
	Telfairia occidentalis, Vernonia amvadalina	Vegetables	Nigeria	United Kingdom	2
	Telfairia, Vernonia	Vegetables	Nigeria	United Kingdom	1
	Verbena bonariensis Vernonia amygdalina Vernonia amygdalina, Amaranthus, Corchorus olitorius, Solanum macrocarpon	Cuttings Vegetables (leaves) Vegetables (leaves)	Brazil Nigeria Nigeria	Spain United Kingdom United Kingdom	1 3 1
Bemisia tabaci, Spodoptera litura	Ocimum	Vegetables (leaves)	Laos	Germany	1
Clavibacter michiganensis subsp. michiganensis	Solanum lycopersicum Solanum lycopersicum	Seeds Seeds	China Taiwan*	Italy France	1 1
Clavibacter michiganensis subsp. sepedonicus	Solanum tuberosum Solanum tuberosum subsp. andigenum	Ware potatoes Ware potatoes	Turkey Poland	Bulgaria United Kingdom	1 1
Ditylenchus dipsaci	Allium cepa	Seeds	Australia	Netherlands	1
Ephestia kuehniella	Cyperus esculentus	Vegetables	Burkina Faso	Spain	1
Fungi	Citrus latifolia	Fruits	Vietnam	Spain	1
Fusarium circinatum	Pinus taeda	Seeds	USA	France	1
Globodera pallida	Solanum tuberosum Unspecified	Ware potatoes Soil and growing medium	Cyprus Algeria	Germany Spain	1 1
Globodera rostochiensis	Solanum tuberosum Solanum tuberosum	Ware potatoes Ware potatoes	Cyprus Egypt	Germany Croatia	1 1
Helicoverpa	Capsicum	Vegetables	Mauritius	France	1
Helicoverpa zea	Solanum melongena	Vegetables	Mexico	Netherlands	1
Hemiptera	Origanum vulgare	Vegetables (leaves)	Israel	Ireland	1
<i>Leptoglossus clypealis,</i> Heteroptera	Yucca rostrata	Plants for planting	Mexico	Italy	1
Leucinodes orbonalis	Solanum melongena	Vegetables	Sri Lanka	Switzerland	1
Liriomyza	Apium graveolens Aster, Bupleurum, Gypsophila	Vegetables Cut flowers	Algeria Ecuador	France Ireland	1 1
	Bupleurum	Cut flowers	Ecuador	Ireland	1
	Bupleurum, Moluccella	Cut flowers	Ecuador	Ireland	1
	Chrysanthemum	Cut flowers	Ecuador	United Kingdom	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
<i>Liriomyza</i> (cont.)	Corchorus Coriandrum Moluccella Ocimum Ocimum basilicum Sauropus androgynus Solidago	Vegetables Vegetables (leaves) Cut flowers Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Cut flowers	Malaysia Egypt Ecuador Kenya Mexico Vietnam Zimbabwe	United Kingdom United Kingdom Ireland United Kingdom United Kingdom United Kingdom	1 2 1 1 1 1
Liriomyza huidobrensis	Dianthus Dianthus barbatus Dianthus barbatus Dianthus, Eryngium Eryngium Gypsophila Gypsophila	Cut flowers Cut flowers Cut flowers Cut flowers Cut flowers Cut flowers Cut flowers	Colombia Colombia Ecuador Ecuador Ecuador Ecuador Ecuador	United Kingdom Netherlands Netherlands Switzerland Netherlands Italy Netherlands	1 1 1 1 2 6
Liriomyza sativae	Amaranthus viridis Coriandrum sativum, Ocimum tenuiflorum Ocimum americanum Ocimum basilicum Ocimum basilicum Ocimum basilicum Ocimum basilicum Ocimum basilicum Ocimum basilicum	Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves)	Sri Lanka Laos* Cambodia* Israel Israel Jordan Kenya Malaysia Pakistan*	United Kingdom Sweden Denmark France France Netherlands United Kingdom Netherlands Netherlands Sweden Sweden	1 1 1 1 1 2 2 1 1
Liriomyza trifolii	Apium graveolens Gypsophila Gypsophila Gypsophila Gypsophila Gypsophila paniculata Ocimum Solidago Solidago	Vegetables Cut flowers Cut flowers Cut flowers Cut flowers Vegetables (leaves) Cut flowers Cut flowers Cut flowers	Laos* Israel Israel Israel Zimbabwe Israel Israel Israel Zimbabwe	Sweden Belgium Germany Netherlands Netherlands United Kingdom Netherlands United Kingdom	1 4 2 1 1 1 1 2
Pantoea stewartii	Zea mays Zea mays	Seeds Seeds	Mexico Mexico	France Germany	2 1
Phyllosticta citricarpa	Citrus maxima	Fruits	China	Italy	1
Phytophthora ramorum	<i>Rhododendron Rhododendron</i> Repens hybrids	Plants for planting Plants for planting	Netherlands Germany	Estonia United Kingdom	1 1
<i>'Ca.</i> Phytoplasma pyri'	Pyrus pyrifolia	Plants for planting	Netherlands	Austria	1
Plodia interpunctella	Cyperus esculentus	Vegetables	Burkina Faso	Spain	1
Pomacea canaliculata	Limnophila aromatica	Vegetables (leaves)	Thailand	Switzerland	1
Potato spindle tuber viroid	Capsicum Capsicum Capsicum frutescens	Seeds Seeds Seeds	China USA* China	United Kingdom United Kingdom United Kingdom	1 1 1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Potato spindle tuber viroid	Solanum lycopersicum	Seeds	China	Italy	1
Potato virus Y	Solanum tuberosum	Ware potatoes	Russia	Netherlands	1
Pseudococcidae	Hylocereus undatus	Vegetables	Vietnam	Spain	1
Radopholus similis	Anubias	Aquatic plants	Malaysia	Germany	1
Ralstonia solanacearum	Rosa	Cut flowers	Netherlands	Poland	1
Ripersiella hibisci	Syzygium buxifolium	Plants for planting	China*	Netherlands	1
Scyphophorus acupunctatus	Beaucarnea	Plants for planting	Guatemala	Italy	1
Spodoptera	Dendranthema	Cut flowers	Colombia	United Kingdom	1
Spodoptera eridania	Phaseolus, Solanum	Vegetables	Suriname	Netherlands	1
	Solanum macrocarpon	Vegetables	Suriname	Netherlands	4
Spodoptera frugiperda	Capsicum Capsicum chinense Capsicum frutescens Capsicum frutescens Solanum macrocarpon Solanum melongena	Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables	Suriname Mexico Suriname Suriname Suriname Suriname	Netherlands Netherlands Netherlands Netherlands Netherlands Netherlands	1 1 1 1 1
Spodoptera littoralis	Chrysanthemum Eryngium Lactuca sativa Lactuca sativa var. crispa Ocimum basilicum Rosa Rosa Rosa Rosa Rosa Telfairia occidentalis	Plants for planting Cut flowers Vegetables Vegetables Vegetables (leaves) Cut flowers Cut flowers Cut flowers Cut flowers Vegetables	Uganda Zimbabwe Egypt Egypt Kenya Kenya Rwanda Tanzania Zimbabwe Nigeria	Netherlands Netherlands Netherlands Netherlands Netherlands Netherlands Netherlands Netherlands United Kingdom	1 5 1 1 3 1 2 1
Spodoptera litura	Amaranthus tricolor Brassica Mentha aquatica Ocimum basilicum Perilla frutescens Rosa	Vegetables (leaves) Vegetables Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Cut flowers	Bangladesh Thailand Vietnam India Laos India	United Kingdom Netherlands Switzerland Netherlands Netherlands United Kingdom	1 1 1 1 1
Sternochetus	Mangifera indica Mangifera indica	Fruits Fruits	Sri Lanka Uganda	Italy Italy	1 1
Synchytrium endobioticum	Solanum tuberosum	Ware potatoes	Peru	Italy	1
Tetranychidae	Asteriscus, Brachyscome, Begonia semperflorens hybrids, Euryops, Fuchsia, Lavandula angustifolia, Pelargonium fragrans, Pelargonium, Portulaca umbraticola, Sutera cordata	Cuttings	Tanzania	Spain	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Thaumatotibia leucotreta	Annona	Fruits	Ghana	United Kingdom	1
	Capsicum	Vegetables	Kenya	Netherlands	1
	Capsicum	Vegetables	Kenya	United Kingdom	3
	Capsicum	Vegetables	Mozambique	United Kingdom	1
	Capsicum	Vegetables	Uganda	United Kingdom	3
	Capsicum	Vegetables	Uganda	United Kingdom	1
	Capsicum	Vegetables	Zimbabwe	United Kingdom	3
	Capsicum	Vegetables	Kenva	United Kingdom	6
	Cansicum	Vegetables	Mozambique	United Kingdom	5
	Cansicum	Vegetables	South Africa	Netherlands	1
	Cansicum	Vogotablos		Rolaium	1
	Capsicum	Vogotablos	Ilganda	Unitod Kinadom	י ה
	Capsicum	Vegetables	Uganda	United Kingdom	່ ວ
	Capsicum	Vegetables	Uyaliua Zambia	United Kingdom	2 1
	Capsicum	Vegetables		United Kingdom	1
	Capsicum	vegetables		Netherlands	1
	Capsicum	Vegetables	Zimbabwe	United Kingdom	1
	Capsicum annuum	Vegetables	Kenya	United Kingdom	1
	Capsicum annuum	Vegetables	Nigeria	United Kingdom	1
	Capsicum annuum	Vegetables	Uganda	Belgium	1
	Capsicum annuum	Vegetables	Uganda	Netherlands	2
	Capsicum annuum	Vegetables	Uganda	United Kingdom	6
	Capsicum annuum	Vegetables	Zambia	United Kingdom	2
	Capsicum annuum	Vegetables	Zimbabwe	United Kingdom	3
	Capsicum chinense	Vegetables	Uganda	United Kingdom	3
	Capsicum chinense	Vegetables	Uganda	United Kingdom	2
	Capsicum frutescens	Vegetables	Kenva	United Kingdom	1
	Capsicum frutescens	Vegetables	South Africa	Netherlands	1
	Cansicum frutescens	Vegetables	Uganda	Netherlands	3
	Citrus reticulata	Fruits	Israel	France	1
	Citrus tangerina	Fruits	Israel	Finland	1
	Unspecified	Fruits	Israel	France	1
Thripidae	Abelmoschus esculentus,	Vegetables	Pakistan	Spain	1
	Capsicum annuum, Lagenaria siceraria				
	Amaranthus viridis	Vegetables (leaves)	India	United Kingdom	1
	Momordica	Vegetables	Dominican Rep.	United Kingdom	3
	Momordica	Vegetables	Pakistan	United Kingdom	1
	Momordica	Vegetables	Thailand	United Kingdom	1
	Momordica balsamina	Vegetables	Dominican Rep.	United Kinadom	1
	Momordica charantia	Vegetables	Dominican Rep.	United Kinadom	5
	Momordica charantia	Vegetables	Pakistan	United Kingdom	3
	Momordica charantia	Vegetables	Dominican Rep	United Kingdom	2
	Solanum melongena var	Vogotabios	Bonningan Rop.	onitou ranguoni	-
	sornontinum				
	Solanum molongona	Voqotablos	Banaladosh	United Kingdom	2
	Solanum molongona	Vegetables	Danyiauesii Dominican Don	United Kingdom	ງ ງ
	Solanum malangana	Vegetables	Dummidan Rep.	United Kingdom	2 1
	Sulanum meiongena		Nigeria	United Kingdom	1
	Sutera	Cuttings	Uganda	Spain	I
Thrips	Solanum melongena	Vegetables	Mauritius	France	1
	Solanum melongena var. serpentinum	Vegetables	Dominican Rep.	United Kingdom	1
Thring nalmi		Vegetables	China (Harry Karry)	Nothorlog	1
i nrips paimi	Brassica rapa	vegetables	China (Hong Kong)	Netherlands	
	Capsicum	vegetables	- SQUU Malausia	iverneriands	I
	Denarobium	Cut nowers	ivialaysia	italy	2

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
<i>T. palmi</i> (cont.)	Dendrobium Dendrobium Dendrobium Mokara Momordica Momordica charantia Momordica charantia Momordica charantia Momordica charantia Momordica charantia Ocimum tenuiflorum Rosa Solanum melongena Solanum melongena Solanum melongena	Cut flowers Cut flowers Cut flowers Cut flowers Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables (leaves) Cut flowers Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables	Thailand Thailand Thailand Malaysia Dominican Rep. Cambodia Dominican Rep. Sri Lanka Thailand Vietnam Vietnam India Dominican Rep. Dominican Rep. Suriname	Belgium Italy Netherlands Italy France France United Kingdom France Switzerland Switzerland Switzerland Netherlands France United Kingdom Netherlands	1 2 1 2 1 1 1 1 2 1 1 1 1 1 1
Thysanoptera	Momordica charantia Momordica charantia Solanum melongena	Vegetables Vegetables Vegetables	Cambodia Dominican Rep. Dominican Rep.	France France France	1 1 1
Tortricidae	Capsicum annuum	Vegetables	Kenya	United Kingdom	1
Xanthomonas	Citrus maxima	Fruits	China	Germany	1
Xanthomonas citri subsp. citri	Citroncirus Citrus hystrix Citrus limon	Fruits Fruits Fruits	Pakistan Vietnam Bolivia	United Kingdom Switzerland Italy	1 1 4
Xanthomonas euvesicatoria	Capsicum annuum Capsicum annuum	Seeds Seeds	China China	Czech Republic Italy	1 1
Xylella fastidiosa	Juglans	Plants for planting	USA	Spain	1

#### • Fruit flies

Pest	Consignment	Country of origin	Destination	nb
Anastrepha	Mangifera indica	Peru	France	1
	Mangifera indica	Peru	Germany	1
	Mangifera indica	Peru	Netherlands	1
Anastrepha fraterculus	Mangifera	Brazil	Portugal	1
	Mangifera indica	Brazil	Portugal	2
Bactrocera	Averrhoa Capsicum frutescens Citrus maxima Psidium guajava Capsicum Capsicum annuum Capsicum frutescens Capsicum frutescens Mangifera indica Mangifera indica Syzygium jambos	Malaysia Uganda China Suriname Suriname Malaysia Laos Laos Côte d'Ivoire Sri Lanka India	Netherlands Germany Netherlands Netherlands Netherlands Germany Netherlands Netherlands Switzerland United Kingdom	1 1 1 1 1 1 1 1 1

Pest	Consignment	Country of origin	Destination	nb
Bactrocera (cont.)	Trichosanthes cucumerina Trichosanthes cucumerina	Sri Lanka Sri Lanka	United Kingdom United Kingdom	1 1
Bactrocera dorsalis	Annona Mangifera indica Mangifera indica Mangifera indica Manilkara zapota Psidium guajava Psidium guajava Ziziphus	Vietnam Burkina Faso Mali Mali Pakistan Malaysia Vietnam India	Germany France France Switzerland United Kingdom Germany France France	1 2 1 1 1 1 1
Bactrocera invadens	Mangifera indica	Côte d'Ivoire	Netherlands	1
Bactrocera latifrons	Capsicum frutescens Capsicum frutescens	Laos Laos	France Germany	1 1
Bactrocera zonata	Psidium guajava	India	France	1
Ceratitis	Capsicum Mangifera indica	Kenya Côte d'Ivoire	France Netherlands	1 1
Ceratitis capitata	Capsicum Capsicum frutescens Capsicum frutescens Mangifera indica Psidium guajava	Senegal Cameroon Congo Burkina Faso Egypt	France Switzerland France France United Kingdom	1 2 1 2 1
Ceratitis cosyra	Mangifera indica Mangifera indica Mangifera indica Mangifera indica	Burkina Faso Côte d'Ivoire Malawi Mali	France Netherlands United Kingdom France	2 1 1 4
Dacus	Cucumis sativus	Jordan	Sweden	1
Dacus bivittatus	Luffa acutangula	Kenya	United Kingdom	1
Dacus ciliatus	Momordica charantia	Uganda	Sweden	1
Tephritidae (non-European)	Averrhoa carambola Baccaurea ramiflora Capsicum Capsicum Capsicum annuum, Capsicum frutescens	Malaysia Thailand Senegal Cambodia Uganda	Netherlands Ireland United Kingdom United Kingdom Spain	1 1 3 2
	Capsicum chinense Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Chrysophyllum cainito Citrus maxima Citrus sinensis Feijoa sellowiana Luffa acutangula Mangifera Mangifera	Uganda Bangladesh Cameroon Congo, Dem. Rep. of Laos Vietnam China Egypt Colombia Kenya Côte d'Ivoire Côte d'Ivoire	Belgium Italy Belgium Sweden Netherlands United Kingdom Germany Spain Netherlands United Kingdom Germany Netherlands	1 1 1 1 1 2 1 1 1

Pest	Consignment	Country of origin	Destination	nb
Tephritidae (non-European)	Mangifera	Guinea	Netherlands	1
	Mangifera indica	Burkina Faso	France	2
	Mangifera indica	Burkina Faso	Germany	1
	Mangifera indica	Burkina Faso	Netherlands	2
	Mangifera indica	Cameroon	Belgium	1
	Mangifera indica	Cameroon	France	9
	Mangifera indica	Cameroon	Italy	1
	Mangifera indica	Côte d'Ivoire	Belgium	1
	Mangifera indica	Côte d'Ivoire	France	7
	Mangifera indica	Côte d'Ivoire	Netherlands	1
	Mangifera indica	Guinea	Belgium	2
	Mangifera indica	Guinea	United Kingdom	1
	Mangifera indica	Mali	France	4
	Mangifera indica	Peru	France	1
	Mangifera indica	Peru	Germany	2
	Mangifera indica	Peru	Netherlands	2
	Mangifera indica	Uganda	United Kingdom	2
	Manilkara zapota	Pakistan	United Kingdom	2
	Momordica charantia	Uganda	United Kingdom	2
	Psidium	Zimbabwe	United Kingdom	1
	Psidium guajava	Dominican Rep.	United Kingdom	1
	Psidium guajava	India	France	1
	Psidium guajava	Malaysia	United Kingdom	1
	Trichosanthes	India	United Kingdom	1
	Trichosanthes	Mauritius	France	1
	Trichosanthes cucumerina	Bangladesh	United Kingdom	1
	Trichosanthes cucumerina	Sri Lanka	United Kingdom	1
	Trichosanthes cucumerina var. anguina	Sri Lanka	United Kingdom	1
	Ziziphus jujuba var. spinosa	Thailand	United Kingdom	1
	Žiziphus mauritiana	Pakistan	Spain	1

#### • Wood

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Alphitobius leavigatus, Stenolophus mixtus	Unspecified	Wood packing material (pallet)	Israel	Bulgaria	1
Anoplophora glabripennis	Unspecified	Dunnage	China	United	1
	Unspecified	Wood packing material (pallet)	China	Austria	4
Aphelenchoides, Bursaphelenchus mucronatus	Unspecified	Wood packing material (pallet)	Belarus	Germany	1
Aphelenchoides, Bursaphelenchus mucronatus, Rhabditis	Unspecified	Wood packing material (crate)	Russia	Belgium	1
Aphelenchoides, Rhabditidae	Unspecified	Wood packing material	China	Portugal	1

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Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Aphelenchoides, Rhabditis	Unspecified	Wood packing material	Belarus	Lithuania	1
Aphelenchoididae, Rhabditidae, Cerambycidae	Unspecified	Wood packing material	Ukraine	Slovakia	1
Apriona germari	Unspecified	Dunnage	China	Estonia	1
Bethylidae	Unspecified	Wood packing material (pallet)	China	Lithuania	1
Blepephaeus succinctor	Unspecified	Wood packing material	China	Finland	1
Bostrichidae	Unspecified Unspecified Unspecified	Wood packing material Wood packing material (pallet) Wood packing material (pallet)	China (China) Vietnam	Germany Germany Switzerland	1 1 1
Buprestidae, Cerambycidae, Curculionidae, Isoptera	Eperua	Wood and bark	Suriname	Italy	1
Bursaphelenchus mucronatus	Unspecified	Dunnage	China	Poland	1
	Unspecified	Wood packing material (pallet)	Belarus	Germany	1
	Unspecified	Wood packing material (pallet) Wood packing material (pallet)	Israel Elkraine	France Latvia	2
	Unspecificu	wood packing matchai (paliet)	Undine	Lutitu	
Bursaphelenchus	Unspecified	Dunnage and wooden crate	Belarus	Lithuania	1
macionatas, madunis	Unspecified	Wood packing material (pallet)	Russia	Poland	1
Bursaphelenchus	Unspecified	Wood packing material (crate)	Belarus	Netherlands	1
macronatus, semura	Unspecified	Wood packing material (pallet)	Belarus	Netherlands	1
Bursaphelenchus mucronatus, Tylenchus	Unspecified	Wood packing material (pallet)	Belarus	Germany	1
Bursaphelenchus xylophilus	Unspecified	Dunnage	USA	Czech	1
	Unspecified Unspecified	Wood packing material Wood packing material (pallet)	USA Taiwan	Finland Bulgaria	1 1
Cerambycidae	Unspecified	Wood packing material	Turkey	United Kingdom	1
	Unspecified	Wood packing material (pallet)	China	Austria	1
Cerambycidae, Xyleborus	Unspecified	Wood packing material (pallet)	China	Austria	1
Diptera	Quercus alba	Wood and bark	USA	Spain	1
Grub holes	Unspecified Unspecified Unspecified Unspecified	Dunnage Wood packing material Wood packing material Wood packing material (pallet)	Canada China Ukraine Indonesia	France France Slovakia Bulgaria	1 1 3 1
Heterobostrychus aequalis	Unspecified	Wood packing material (pallet)	China	Germany	1
Insecta	Unspecified	Dunnage	China	France	1

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Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Insecta (cont.)	Unspecified Unspecified Unspecified	Wood packing material Wood packing material (pallet) Wood packing material (pallet)	China China Singapore	France Switzerland Switzerland	1 2 1
Monochamus alternatus	Unspecified	Wood packing material	China	Estonia	1
Pentatomidae	Unspecified	Wood packing material (pallet)	China	Austria	1
Rhabditida	Unspecified	Wood packing material	China	Portugal	1
Rhabditis	Unspecified Unspecified Unspecified	Wood packing material Wood packing material Wood packing material (pallet)	Belarus China Belarus	Austria Portugal Germany	1 1 1
Rhabditis, Seinura	Unspecified	Wood packing material (pallet)	Ukraine	Estonia	1
Rhabditis, Sirex noctilio	Unspecified	Wood packing material (pallet)	Belarus	Germany	1
Saperda tridentata	Ulmus rubra	Wood and bark	USA	Italy	2
Sinoxylon	Unspecified Unspecified Unspecified Unspecified	Wood packing material Wood packing material Wood packing material (crate) Wood packing material (pallet)	India Indonesia China Indonesia	Germany Belgium Germany Germany	1 1 1 1
Sinoxylon anale	Unspecified	Wood packing material (pallet)	India	Germany	1
Sinoxylon ceratoniae	Unspecified	Wood packing material (pallet)	China	Germany	1
Tetropium	Unspecified	Wood packing material	China	Germany	1
Xyleborinus	Pinales Unspecified	Dunnage Wood packing material (pallet)	China China	France Austria	2 4
Xyleborinus artestriatus	Unspecified	Wood packing material (pallet)	China	Austria	3
Xyleborinus saxeseni	Unspecified	Wood packing material (pallet)	China	Austria	1
Xyleborus	Unspecified Unspecified	Wood packing material (pallet) Wood packing material (pallet)	China China	Austria Austria	1 10
Xyleborus, Xylosandrus	Unspecified	Wood packing material (pallet)	China	Austria	1
Xylosandrus	Unspecified	Wood packing material (pallet)	China	Austria	1
Xylotrechus	Unspecified	Wood packing material	China	Germany	1

• Bonsais

Pest		Consignment	Country of origin	Destination	nb 1
Aleurocantinus spiritie	eius	Camenia sasanyua	Japan	Italy	I
Pratylenchus		Acer, Carpinus coreana; Ligustrum obtusifolium, Rosa multiflora, Weigelia, Wisteria floribunda	Korea, Rep. of	Switzerland	1
Source:	EPPO Se INTERN EUROPH importe http://	Secretariat (2017-06). RNET IPHYT. Annual and monthly reports of interceptions of harmful organisms in rted plants and other objects. //ec.europa.eu/food/plant/plant_health_biosecurity/europhyt/interceptio			

ns/index\_en.htm

#### 2017/115 First report of *Rhagoletis cingulata* in Italy

In Italy, during a monitoring survey targetting *Rhagoletis pomonella*, another fruit fly *Rhagoletis cingulata* (Diptera: Tephritidae - EPPO A2 List) was found in May 2016 in Lombardia region. A single specimen was caught in a trap which was placed in an apple (*Malus domestica*) orchard in the municipality of San Martino di Bianzone (province of Sondrio). The identity of the pest was confirmed by morphological and molecular methods. No damage was observed in nearby plants.

The pest status of *Rhagoletis cingulata* in Italy is officially declared as: **Present**, a single specimen has been caught in a trap.

Source: NPPO of Italy (2017-06).

Pictures: Rhagoletis cingulata. <u>https://gd.eppo.int/taxon/RHAGCI/photos</u>

Additional key words: new record

Computer codes: RHAGCI, IT

#### 2017/116 Spodoptera frugiperda continues to spread in Africa

In early 2016, outbreaks of *Spodoptera frugiperda* (Lepidoptera: Noctuidae - EPPO A1 List) were reported for the first time in Africa where high armyworm populations damaging maize (*Zea mays*) crops have been noticed (EPPO RS 2016/188, 2017/035). Since these initial reports, other African countries have reported confirmed or suspected outbreaks of *S. frugiperda*, thus showing that the pest is rapidly spreading. This phytosanitary crisis has prompted coordinated actions by FAO aiming to contain the pest.

- As of May 2017, the presence of *S. frugiperda* has been officially confirmed in the following African countries (recent records are indicated in bold): Benin, Botswana, Burundi, Cameroon, Congo (Democratic Republic of), Ethiopia, Ghana, Kenya, Malawi, Mozambique, Namibia, Nigeria, Rwanda, Sao Tomé e Principe, South Africa, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.
- In addition, *S. frugiperda* has been detected in **Burkina Faso**, **Equatorial Guinea**, **Niger**, and **Sierra Leone**, but its presence remains to be officially confirmed in these countries.

Source:FAO (2017-05-15) Briefing note on fall armyworm (FAW) in Africa.<br/>http://www.fao.org/3/a-bs183e.pdfIPPC website. Official Pest Reports - Cameroon (CMR-04/6 of 2017-06-02) First<br/>report of the fall army worm Spodoptera frugiperda in Cameroon.<br/>https://www.ippc.int/en/countries/cameroon/pestreports/2017/06/first-report-of-<br/>the-fall-army-worm-spodoptera-frugiperda-in-cameroon/Pictures:Spodoptera frugiperda.<br/>https://gd.eppo.int/taxon/LAPHFR/photos

Additional key words: new record

Computer codes: LAPHFR, BF, BI, BW, CM, ET, GQ, KE, NE, RW, SL, TZ, UG

#### 2017/117 First report of 'Candidatus Liberibacter asiaticus' in Panama

In February 2016, '*Candidatus* Liberibacter asiaticus' (associated with huanglongbing – EPPO A1 List) was detected for the first time in Panama. The disease was found on citrus the areas of Guabito and Las Tablas (district of Changuinoa, province of Bocas del Toro). The Ministry of Agriculture has declared a state of phytosanitary emergency and a national contingency plan has been elaborated to contain the disease and its vector, *Diaphorina citri* (Hemiptera: Liviidae – EPPO A1 List). In July 2016, 101 citrus plants at the sites where the disease was found were destroyed (burnt). In addition to plant destruction and surveys, the development of a national certification scheme for the production of healthy planting material of citrus has been undertaken.

The situation of '*Candidatus* Liberibacter asiaticus' in Panama can be described as follows: Present, only in some areas (province of Bocas del Toro), under official control.

Source: INTERNET

Gobierno de la República de Panamá

- Noticias (2017-06-05) Más de B/. 1 millón invertirán Panamá y Taiwán en proyecto para control de la enfermedad de los cítricos HLB. <u>http://mida.gob.pa/noticias\_id\_4875.html</u>
- Noticias (2017-06-02) Sector public y privado analizan normativa de viveros cítricos. http://mida.gob.pa/noticias\_id\_4495.html
- Noticias (2016-08-16) MIDA y Embajada de China (Taiwan) coordinan proyectos técnicos. <u>http://www.mida.gob.pa/noticias\_id\_3977.html</u>
- Noticias (2016-07-25) Decomisan plantones de cítricos en puesto de control de cuarentena en Hornitos. <u>http://mida.gob.pa/noticias\_id\_3898.html</u>
- Noticias (2016-06-01) MIDA impulsa plan de emergencia para control de enfermedad en los cítricos. <u>http://www.mida.gob.pa/noticias\_id\_3739.html</u>

República de Panamá. Ministerio de Desarrollo Agropecuario. Resolucion no. OAL-039-ADM-2016 of 2016-02-03. Gaceta Oficial Digital, jueves 17 de marzo de 2016 no. 27991. <u>http://extwprlegs1.fao.org/docs/pdf/pan163996.pdf</u>

Pictures: 'Candidatus Liberibacter asiaticus'. <u>https://gd.eppo.int/taxon/LIBEAS</u>

Additional key words: new record

Computer codes: LIBEAS, DIAACI, PA

#### 2017/118 First report of 'Candidatus Liberibacter asiaticus' in Trinidad and Tobago

In May 2017, the presence of 'Candidatus Liberibacter asiaticus' (associated with huanglongbing - EPPO A1 List) was confirmed in leaf samples which had been collected from a lime (*Citrus* sp.) tree located in Curepe (county Saint George West) in the Northern part of the island of Trinidad (Trinidad and Tobago). These samples were tested at the University of Florida (USA). The NPPO of Trinidad and Tobago has initiated the following actions: delimiting survey, public awareness campaign and development of an integrated pest management programme against huanglongbing.

The pest status of '*Candidatus* Liberibacter asiaticus' in Trinidad and Tobago is officially declared as: **Present: subject to official control**.

- Source: IPPC website. Official Pest Reports Trinidad and Tobago (TTO-10/1 of 2017-06-18) Detection of huanglongbing or citrus greening ('*Candidatus* Liberibacter asiaticus') in Trinidad. <u>https://www.ippc.int/en/countries/trinidad-and-</u> <u>tobago/pestreports/2017/06/detection-of-huanglongbing-or-citrus-greening-</u> <u>candidatus-liberibacter-asiaticus-in-trinidad/</u>
- Pictures: 'Candidatus Liberibacter asiaticus'. <u>https://gd.eppo.int/taxon/LIBEAS/photos</u>

Additional key words: new record

Computer codes: LIBEAS, TT

#### 2017/119 'Candidatus Liberibacter asiaticus' detected in Alabama (US)

In June 2017, the presence of '*Candidatus* Liberibacter asiaticus' (associated with huanglongbing - EPPO A1 List) is reported for the first time from Alabama (US). The bacterium was detected in citrus leaf samples and psyllid vectors (*Diaphorina citri*, Hemiptera: Liviidae - EPPO A1 List) which had been collected from a residential property on Dauphin Island in Mobile county. A delimiting survey will be initiated shortly, as well as an information campaign for nurserymen, plant dealers, and citrus hobbyists. If the delimiting survey concludes that the disease is limited to only a few trees, an eradication programme will be implemented.

Source: INTERNET Alabama Department of Agriculture & Industries. Press release of 2017-06-20. Citrus greening plant disease detected in Alabama. <u>http://agi.alabama.gov/s/press-</u> release's/citrus-greening-plant-disease-detected-in-alabama

Pictures: 'Candidatus Liberibacter asiasticus'. <u>https://gd.eppo.int/taxon/LIBEAS/photos</u>

Additional key words: detailed record

Computer codes: LIBEAS, US

#### 2017/120 Neonectria neomacrospora an emerging disease of fir trees in Northern Europe: addition to the EPPO Alert List

**Why:** since 2008, a new and severe canker disease caused by *Neonectria neomacrospora* (anamorph *Cylindrocarpon cylindroides*) has been observed on firs (*Abies* spp.) in Norway. In 2011, the same disease was also found in Denmark causing damage on fir trees. In 2015, the fungus was detected in Southern Sweden. The Panel on Quarantine Pests for Forestry recommended that *N. neomacrospora* is added to the EPPO Alert List.

Where: the geographical distribution of *N. neomacrospora* remains to be clarified and it is not entirely clear whether this is a recently emerging fungus in Europe or a re-emerging one. According to the literature, cankers caused by this fungus have probably been observed in North America on *A. balsamea* as early as the 1930s. However, there is very little information about the current situation of this fungus in North America. In Europe, there are some old records of its presence. In Norway, when the herbarium specimen of the fungus recorded in 1951 under the name *Nectria cucurbitula* on *Abies alba, A. balsamea, A. concolor* and *A. nordmanniana* was re-examined in 1962, it was found to be identical to *Nectria cucurbitula* var. *macrospora* (= *N. neomacrospora*). The anamorph *Cylindrocarpon cylindroides* was first described from grafted *A. concolor* in a German nursery more than 100 years ago, but there is no indication that a canker disease caused by *N. neomacrospora* currently occurs in Germany. In Asia, *N. neomacrospora* was first found in 2014 in the province of Hubei in China.

**EPPO region**: Denmark, Norway, Sweden, United Kingdom (an Internet source mentions recent identifications).

North America: Canada (British Columbia), USA (Oregon, Washington). Asia: China (Hubei). On which plants: *N. neomacrospora* has been reported on many *Abies* species, such as: *A. alba* (European silver fir), *A. amabilis* (Pacific silver fir), *A. balsamea* (balsam fir), *A. balsamea* var. *phanerolepis* (Canaan fir), *A. cephalonica* (Greek fir), *A. concolor* (white fir), *A. durangensis*, *A. fargesi* (Farges's fir), *A. fraseri* (*Fraser fir*), *A. grandis* (grand fir), *A. kawakamii* (Taiwan fir), *A. koreana* (Korean fir), *A. lasiocarpa* (subalpine fir), *A. magnifica* (Californian red fir), *A. nebrodensis* (Sicilian fir), *A. nordmanniana* (Nordmann fir), *A. nordmanniana* subsp. *equitrojani* (Turkish fir), *A. numidica* (Algerian fir), *A. pinsapo* (Spanish fir), *A. procera* (noble fir), *A. sibirica* (Siberian fir), *A. vejarii*. It has also occasionally been found on *Picea abies* (Norway spruce), *Pseudotsuga menziesii* (Douglas fir), and *Tsuga heterophila* (Western hemlock).

**Damage:** symptoms are characterized by dead shoots and branches, cankers, branch dieback and heavy resin flow. Under humid conditions, characteristic red perithecia with ascospores (sexual stage) develop on plant material that has been dead for some time (usually more than 1 year). These red fruiting bodies are usually observed in the lower part of the crown and close to the trunk. Conidia from the asexual state (*C. cylindroides*) can also form on infected bark in humid conditions. In Denmark and Norway, tree mortality has been observed on *Abies* spp. in landscape plantings, Christmas tree production fields, and forest stands. Studies conducted in Denmark from 2011 to 2014 on 3 trial sites planted with different provenances of *A. lasiocarpa* have shown that damage has increased significantly. In surveyed sites, the proportion of damaged trees increased from 40% in 2011 to 80% in 2014, and approximately 60% of the trees were seriously damaged. In these studies, it is noted that damage caused by *N. neomacrospora* was so serious that all *A. lasiocarpa* provenances from Southern USA included in the trial were rated as unsuitable for Christmas tree production in Denmark.

**Dissemination:** ascospores are airborne and can spread over long distances. Conidia from the asexual state (*Cylindrocarpon cylindroides*) can be spread from tree to tree by rain splashes and physical contact between trees. *N. neomacrospora* is considered to be seed borne, and it has been hypothesized that the fungus has been introduced into Europe via infected seeds.

**Pathway:** plants for plantings, seeds, Christmas trees, cut branches? of *Abies* species and other conifer hosts from countries where the fungus occurs.

**Possible risks:** *Abies* species are widely grown in the EPPO region for forestry and ornamental purposes, including the production of Christmas trees (e.g. *A. nordmanniana* and *A. lasiocarpa*). *N. neomacrospora* has recently caused severe outbreaks in Denmark and Norway on *Abies* spp. trees, leading to reduced tree quality and in some cases to tree mortality. *N. neomacrospora* can attack a very large number of *Abies* species and subspecies. In nurseries of Christmas tree plantations, some control measures have been recommended (destruction of diseased plants, chemical treatments) but these cannot be applied in forest stands. Studies have been initiated in Denmark to identify resistant or tolerant *Abies* species and subspecies, but the moment no positive results have been obtained. The epidemic levels which have been observed in Denmark and Norway, as well as the high number of *Abies* species susceptible to this fungus, indicate that attention should be paid to *N. neomacrospora* in the cultivation of *Abies* species.

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EPPO RS 2013/234, 2017/120

Panel review date -

Additional key words: Alert List

Entry date 2017-06

Computer codes: NECTMA

#### 2017/121 First report of Synchytrium endobioticum in Greece

During official surveys conducted in 2011, *Synchytrium endobioticum* (EPPO A2 List) was detected for the first time in Greece. The fungus was found in 2 potato (*Solanum tuberosum*) fields in the municipality of Kato Nevrokopi (Regional unit of Drama). Typical wart symptoms on stolons and tubers were observed. The identification of *S. endobioticum* was based on the EPPO diagnostic protocol PM 7/28. Additional studies were conducted and confirmed the presence of pathotype 18(T1) in both potato fields. Phytosanitary measures were implemented in accordance with the EU Council Directive 69/464/EEC. Potato crops on the 2 infested fields were destroyed. In the buffer zone, only potato cultivars resistant to pathotype 18(T1) will be allowed to be planted.

The situation of *Synchytrium endobioticum* in Greece can be described as follows: **Present**, first found in 2011 in 2 potato fields, under official control.

Source: Vloutoglou I, van Leeuwen GCM, Eleftheriadis H, Sarigkoli I, Simoglou KB, Tsirogiannis D, Gilpathi D (2015) First report of potato wart disease caused by *Synchytrium endobioticum* (Schilb.) Perc. in Greece: detection, impacts and pathotype identification. Abstract of a paper presented at the 16<sup>th</sup> Hellenic Phytopathological Congress (Thessaloniki, GR, 2012-10-16/18). *Hellenic Plant Protection Journal* (special issue), p 9.

Pictures: Synchytrium endobioticum. https://gd.eppo.int/taxon/SYNCEN/photos

Additional key words: new record

Computer codes: SYNCEN, GR

#### 2017/122 First report of *Thekopsora minima* in China

In 2015, symptoms of leaf rust were observed in several blueberry (*Vaccinium corymbosum*) fields in 4 localities (Wenjiang, Shuangliu, Dujiangyan, Yaan) in Sichuan province, China. Blueberry leaf rust symptoms were first observed in April, causing extensive defoliation in the following months. Random field surveys were performed in early October to determine the incidence of the disease in Wenjiang by assessing 20 leaves from 100 plants of each cultivar. The disease incidence was estimated to be 87.2, 5.1, 3.5, and 0.0% on cvs Sharpblue, Misty, Bluegold, and O'Neill, respectively. Laboratory analysis (morphology, PCR

and sequencing, pathogenicity test) confirmed the presence of *Thekopsora minima* (EPPO Alert List) in symptomatic leaf samples.

The situation of *Thekopsora minima* in China can be described as follows: **Present**, first found in 2015 in several blueberry fields (4 localities) in Sichuan province.

Source: Zheng X, Tang G, Tian Y, Huang X, Chang X, Chen H, Yang H, Zhang Z, Gong G (2017) First report of leaf rust of blueberry caused by *Thekopsora minima* in China. *Plant Disease* 101(5), p 835.

Pictures: Thekopsora minima. <u>https://gd.eppo.int/taxon/ERWIST/photos</u>

Additional key words: new record

Computer codes: THEKMI, CN

#### 2017/123 Grapevine fabavirus a new virus of grapevine

A new virus tentatively named Grapevine fabavirus (*Fabavirus*, GFabV) has recently been reported in California (USA). This virus was detected (NGS) during the testing of 2 selections of Japanese table grapes (*Vitis vinifera* cvs. Black Beet and Nagano Purple) which had been introduced from the Republic of Korea in 2013 in a grapevine collection (Foundation Plant Services, Davis). Studies conducted in California have shown that GFabV could be graft-transmitted to *V. vinifera* cv. Cabernet Franc. In addition, GFabV was then also detected in 2 additional grapevine selections, one from India and the other from the Republic of Korea. In California, field surveys and biological studies will be conducted to determine the prevalence of GFabV, evaluate its potential natural spread, and assess its impact on grapevine. In later studies conducted in China, the presence of GFabV was detected in grapevine material (*Vitis vinifera* cv. Ruby seedless grafted on *Vitis riparia* × *V. labrusca*) showing chlorotic mottling and leaf deformation. It was also concluded that more studies were needed to determine the effects of GFabV on grapevine.

Source: Al Rwahnih M, Alabi OJ, Westrick NM, Golino D, Rowhani A (2016) Near-complete genome sequence of grapevine fabavirus, a novel putative member of the genus Fabavirus. *Genome Announcements* 4(4), e00703-16. doi:10.1128/genomeA.00703-16

Fan XD, Zhang ZP, Ren F, Hu GJ, Li ZN, Dong YF (2017) First report of Grapevine fabavirus in grapevines in China. *Plant Disease* **101**(5), p 847.

Additional key words: taxonomy

Computer codes: GFABV0, CN, US

# 2017/124 Invasive plants affect arbuscular mycorrhizal fungi abundance which results in reduced species richness and performance of native plants

Over 80 % of all terrestrial plants have roots colonised by arbuscular mycorrhizal fungi (AMF) which aid nutrient acquisition and growth, as well as protecting plants against abiotic stresses. Following invasion by invasive plants which are not associated, or weakly associated with AMF, microbiota levels beneath invaded stands can become reduced. Three invasive plants species with varying levels of AMF colonisation were evaluated for their impact on native plants. Fallopia japonica (Polygonaceae; EPPO List of Invasive Alien Plants) is a non-mycorrhizal associated species whereas both Rudbeckia laciniata (Asteraceae) and Solidago gigantea (Asteraceae; EPPO List of Invasive Alien Plants) are known to form AMF associations. In the present study, soil and root samples were collected from beneath stands of each invasive species and adjacent native vegetation in Poland. For each site, AMF colonisation and species richness was determined. In addition, the performance (shoot biomass, chlorophyll fluorescence and element concentration in shoots) of two native AMF dependent species (Trifolium repens (Fabaeae) and Plantago lanceolata (Plantaginaceae)) grown in soil taken from beneath each invasive species and from beneath native species was assessed. F. japonica had the strongest negative effect on AMF abundance and species richness. Even though R. laciniata and S. gigantea are AMF dependent, a reduced species abundance was observed indicating that these species may associate with a low number of AMF species in the introduced range. P. lanceolata showed a reduced shoot and photosynthetic performance on soil taken from beneath F. japonica and S. gigantea. Generally, T. repens did not show any significant difference in performance between invaded and uninvaded soils, indicating the species might also be utilising microbiota not measured during the experiment.

Source: Zubek S, Majewska M, Blaszkowski J, Stefanowicz AM, Nobis M, Kapusta P (2016) Invasive plants affect arbuscular mycorrhizal fungi abundance and species richness as well as the performance of native plants grown in invaded soils. *Biology and Fertility* of Soils 52, 841-852.

Additional key words: invasive alien plants

Computer codes: POLCU, RUDLA, SOOGI, PL

#### 2017/125 Baccharis spicata in the EPPO region: addition to the EPPO Alert List

#### Why

*Baccharis spicata* (Asteraceae) is a medium sized shrub native to South America. In 2015 two naturalised populations were recorded for the first time in the vicinity of Porto (Matosinhos and Vila do Conde) in Portugal (EPPO RS 2017/070). Since these observations, four additional populations have been recorded with the most northern and southern populations some 30 km apart. *B. spicata* has a wide climatic tolerance and can colonise a variety of habitats. Coupled with high seed production which are wind-dispersed, *B. spicata* has the potential of becoming an emerging invasive species in the EPPO region.

#### Geographical distribution

EPPO Region: Portugal

South America: Argentina, Brazil, Paraguay, Uruguay.

#### Morphology

*B. spicata* is a dioecious medium sized shrub usually 40-150 cm in height (maximum 300 cm). Stems are unwinged and branch from the base. The lower leaves are opposite with the upper leaves sub-opposite to alternate. The species is capable of reproducing after 12 months.

Inflorescences are terminal and composed of cylindrical spikes. Flower heads are sessile and solitary or grouped in small glomerules. The achenes bear a pappus which aids wind-dispersal.

#### Biology and ecology

Both male and female plants are present in Portugal. Seed production and dispersal rates are similar to that of the congener *B. halimifolia* (EPPO A2 List - EU List of Union concern), indicating that *B. spicata* also has the potential for long distance dispersal.

#### Habitats

In its native range, *B. spicata* is reported to exhibit a high level of plasticity for suitable habitats. It can grow in steppe and grasslands, disturbed coastal areas, river margins, arable land, abandoned paddies and urban areas. In the EPPO region, in Portugal, the species is found on disturbed habitats colonised by other invasive non-native plant species.

#### Pathways for movement

Three *Baccharis* species are grown in European gardens - *B. magellanica*, *B. patagonica* and *B. halimifolia*. However, there is no evidence that *B. spicata* is or has been grown as an ornamental species in the region. The two originally identified populations in Portugal are located in the vicinity of an international airport and seaport, and thus accidental introduction is the most likely pathway of entry for these populations.

#### Impacts

In Portugal, *B. spicata* grows on disturbed ground with other highly invasive species such as *Acacia longifolia*, *A. melanoxylon*, *Cortaderia selloana* and *Paspalum dilatatum*. In these habitats, *B. spicata* shows strong competition with other species becoming an abundant species in the community.

#### Control

The populations in Portugal represent the first naturalised record of the species outside its native range and thus there is little information on control options for the species. An EPPO National Regulatory Control Standard is available for *B. halimifolia* (PM 9/23 (1) *Baccaris halimifolia*), and some management methodologies detailed may be suitable for *B. spicata*.

Source:EPPO (2016) First report of Baccharis spicata in Portugal. EPPO Reporting Service 2017<br/>no. 3. Available at: https://gd.eppo.int/reporting/article-6038.<br/>Verloove F, Dana ED, Alves P (2017) Baccharis spicata (Asteraceae), a new potentially<br/>invasive species to Europe. Plant Biosystems<br/>http://dx.doi.org/10.1080/11263504.2017.1303001

Additional key words: invasive alien plants, alert list

Computer codes: ACALO, ACAME, BACHA, BACPA, BACSP, BACTR, CDTSE, PASDI, PT

#### 2017/126 Updated checklist of alien flora of Turkey

An updated checklist on the alien flora of Turkey has been published which details the naturalized and casual alien taxa in Turkey. The list builds on the previous checklist of alien taxa in Turkey from the DAISIE project (Delivering Alien Invasive Species Inventories for Europe, 2008-2008). Additional species were included from various sources including GBIF (Global Biodiversity Information facility), online floras, field surveys and publications. The results show tha the alien flora of Turkey comprises 340 taxa, among which there are 321 angiosperms, 17 gymnosperms and two ferns. Of the total number of taxa, 228 (68%) are naturalized and 112 (32%) are casual. There are 275 neophytes (172 naturalized and 103 casual) and 61 archaeophytes (52 naturalized and 9 casual); four species could not be classified with respect to the residence time. In addition, 47 frequently planted taxa with a potential to escape are also listed.

Source: Uludag A, Aksoy N, Yazlk A, Arslan FA, Yazmiş, Üremiş I, Antonella T, Groom Q, Pergl J, Pyšek P, Brundu G (2017) Alien flora of Turkey: checklist, taxonomic composition and ecological attributes. *Neobiota* 35, 61-85. <u>https://neobiota.pensoft.net/article/12460/</u>

Additional key words: Publication, invasive alien plants

Computer codes: TR

#### 2017/127 First report of Wolffia columbiana in Italy

*Wolffia columbiana* (Araceae) was discovered in a pond in the Lombardia region of Italy in March 2016. The species was identified to be distinct from the only native species of *Wolffia*, *W. arrhiza*, which occurs throughout Europe. *W. columbiana* is an aquatic floating perennial herb without any roots. The fronds are single or joined, and spherical to widely ellipsoid in shape: 0.77 - 0.9 mm long, 0.67 - 0.73 mm wide. The native range of *Wolffia columbiana* extends through the temperate and tropical regions of North and South America, from Canada southwards to Argentina. Outside the Americas, it is known only from Central and Western Europe, in over 80 localities in Germany and the Netherlands. The waterbody where *W. columbiana* was recorded in Italy consists of a small pond along the bank of the river Po. The likely pathway for the entry of *W. columbiana* into the EPPO region is as a contaminant of aquatic ornamental plants.

Source: Ardenghi NMG, Armstrong WP, Paganelli D (2017) *Wolffia columbiana* (Araceae, Lemnoideae): first record of the smallest alien flowering plant in southern Europe and Italy. *Botany Letters* 164, 121-127.

Additional key words: new record, invasive alien plants,

Computer codes: WOLCO, IT

# 2017/128 EU funded LIFE project: Mitigating the threat of invasive alien plants in the EU through pest risk analysis to support the EU Regulation 1143/2014

The full report (scientific paper) detailing the prioritization of invasive alien plants for pest risk analysis (PRA) within the DG Environment LIFE funded project 'Mitigating the threat of invasive alien plants in the EU through pest risk analysis to support the EU Regulation 1143/2014' is available for download via the project website or via the NeoBiota website. The paper details the prioritization of 37 alien plant species for PRA using a modified version of the EPPO Prioritisation Process designed to be compliant with the EU Regulation 1143/2014. In Stage 1, species were categorised into one of four lists - a Residual List, EU List of Minor Concern, EU Observation List and the EU List of Invasive Alien Plants. Due to medium or high spread potential coupled with high impacts twenty-two species were included in the EU List of Invasive Alien Plants and proceeded to Stage 2, the risk management stage. In stage 2, species which have been present in the EU for several decades without showing invasive tendencies, and those species which are widespread were not considered a priority for a PRA. In addition, species where phytosanitary measures are likely to be ineffective were not considered a priority for a risk analysis. Nineteen species were identified as having a high priority for a PRA (Acacia dealbata, Ambrosia confertiflora, Andropogon virginicus, Cardiospermum grandiflorum, Celastrus orbiculatus, Cinnamomum camphora, Cortaderia jubata, Ehrharta calycina, Gymnocoronis spilanthoides, Hakea sericea, Humulus scandens, Hygrophila polysperma, Lespedeza cuneata, Lygodium japonicum, Pennisetum setaceum, Prosopis juliflora, Sapium sebiferum, Pistia stratiotes and Salvinia molesta).

Source: Tanner R, Branquart E, Brundu G, Buholzer S, Chapman D, Ehret P, Fried G, Starfinger U, van Valkenburg J (2017) The prioritisation of a short list of alien plants for risk analysis within the framework of the Regulation (EU) No. 1143/2014. *NeoBiota* 35, 87-118. <u>https://doi.org/10.3897/neobiota.35.12366</u>

Life IAP-RISK. <u>www.iap-risk.eu</u>

Additional key words: invasive alien plants, PRA

Computer codes: ACADA, ANOVI, CELOR, CDTJU, CINCA, CRIGR, EHRCA, FRSCO, GYNSP, HKASE, HYGPO, HUMJA, LESCU, LYFJA, PIIST, PRCJU, SAQSE, SAVMO, EU