#### ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES

EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION

# **EPPO** Reporting Service

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CONTENTS	Pests & Diseases
2012/232	- First report of <i>Tuta absoluta</i> in a tomato crop in Guernsey
2012/233	- Aceria kuko found again in Germany
2012/234	- Update on the situation of <i>Thaumastocoris peregrinus</i> in Lazio region (IT)
2012/235	- Updated situation of Meloidogyne chitwoodi and Meloidogyne fallax in France
2012/236	- Eradication of citrus huanglongbing in Argentina
2012/237	- First report of <i>Chalara fraxinea</i> in Guernsey
2012/238	- Puccinia horiana found in Lithuania
2012/239	- Mycosphaerella pini detected again in Lithuania
<u>2012/240</u>	- Mycosphaerella dearnessii detected again in Lithuania
<u>2012/241</u>	- Mycosphaerella dearnessii found on Pinus nigra var. nigra in Austria
<u>2012/242</u>	- Outbreak of <i>Pepino mosaic virus</i> in Ticino (CH)
<u>2012/243</u>	- New findings of <i>Plum pox virus</i> in Lithuania
<u>2012/244</u>	- Plum pox virus found for the first time in the regions of Nord-Pas de Calais and Corse (FR)
<u>2012/245</u>	- EPPO report on notifications of non-compliance
<u>2012/246</u>	- New section on 'validation data' added to the EPPO database on diagnostic expertise
<u>2012/247</u>	- 3 <sup>rd</sup> European Bois Noir Workshop (Barcelona, ES, 2013-03-20/21)
	Invasive Plants
2012/248	- The alien and invasive flora of Greece
2012/249	- First report of Thladiantha dubia in Croatia
2012/250	- Eichhornia crassipes and Pistia stratiotes in Campania and Sardinia (Italy)
2012/251	- Environmental factors promoting the spread of <i>Pennisetum setaceum</i>
2012/252	- A review of research on biological invasions
2012/253	<ul> <li>Conclusions from the Seminar on International Trade and Invasive Alien Species of the Standards and Trade Development Facility</li> </ul>
2012/254	- Freshwater invasive species conference (Galway, IE, 2013-04-8/11)
2012/255	- 4th EWRS International Symposium on Weeds & Invasive Plants 'Intractable Weeds and Plant invaders' (Montpellier, FR, 2014-05-18/23)

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#### 2012/232 First report of *Tuta absoluta* in a tomato crop in Guernsey

In Guernsey, *Tuta absoluta* (Lepidoptera: Gelechiidae - EPPO A2 list) was first found at a packing unit in June 2010 (EPPO RS 2010/138), but until recently no further specimens were found on the island. In October 2012, 2 adult males of *T. absoluta* were caught in a pheromone trap placed in one commercial glasshouse of tomatoes (*Solanum lycopersicum*). This finding was made during a routine survey. No symptoms or damage were seen in the infested tomato crop. Investigations are being made to trace back the possible origin of this introduction. Phytosanitary measures were taken to eradicate *T. absoluta* and included: intensive trapping plus chemical treatments; disposal of the crop, growing medium and floor covering after the final harvest.

The pest status of *Tuta absoluta* in Guernsey is officially declared as: **Present**, **detected in one commercial glasshouse**, **under eradication**.

Source: NPPO of Guernsey (2012-11).

Additional key words: detailed record Computer codes: GNORAB, GG

#### 2012/233 Aceria kuko found again in Germany

In Germany, the presence of *Aceria kuko* (Acari: Eriophyidae) was noticed for the first time in 2011 in Baden-Württemberg (EPPO RS 2011/218). This gall mite originating from South-East Asia was found on 'Goji berry' plants (*Lycium* spp.) grown in an orchard for fruit production. Eradication measures were taken by the NPPO in Baden-Württemberg. After this initial finding, a survey (including official inspections of nurseries) was conducted in most German länder in 2012. As a result, *A. kuko* was found in Berlin, Bayern, Nordrhein-Westfalen, Rheinland-Pfalz, Sachsen, and Schleswig-Holstein. The mite was identified on the basis of its morphological characteristics. In all cases, official control measures were taken and included: destruction of infested plants (in Bayern, Schleswig-Holstein, Rheinland-Pfalz), acaricide treatments, quarantine, official inspections in nurseries. The origin of these infestations is unknown but it is suspected that *A. kuko* has been introduced with infested plant material.

**Berlin:** A. kuko was found in 7 locations. There is no commercial production of Lycium plants in Berlin and most findings were made in private gardens. In one site, the infested plants had been delivered by a trader from Niedersachsen.

**Bayern:** in 2012-05-09, symptoms caused by *A. kuko* were observed on *Lycium barbarum* plants in 1 nursery. Approximately 600 plants showed leaf galls. During summer, *A. kuko* was also found in 4 other nurseries and 1 private garden.

**Nordrhein-Westfalen:** 10 *Lycium* plants showing symptoms of *A. kuko* were found in a garden centre. These plants originated from Niedersachsen.

**Niedersachsen:** meticulous tracing-back studies were carried out in Niedersachsen but no infested plants could be found in 2012. However in one nursery, the staff had seen symptoms in 2011. The nurseries concerned are now officially and regularly inspected.

**Rheinland-Pfalz:** in September 2012, *A. kuko* was found in 2 nurseries where the plants had also been delivered from Niedersachsen.

**Sachsen:** in 2012-06-26, symptoms caused by *A. kuko* were found on *Lycium* plants in 1 nursery. Approximately 110 plants showed leaf deformations, light-coloured patches and galls on the leaves.

**Schleswig-Holstein:** in 2012-07-25, symptoms caused by *A. kuko* were observed on *Lycium* plants in 1 nursery. Approximately 5% of a lot of 1275 potted plants, as well as some mother plants, were infested.

The pest status of *Aceria kuko* in Germany is officially declared as: **Transient in some** areas (Berlin, Baden-Württemberg, Bayern, Nordrhein-Westfalen, Rheinland-Pfalz, Sachsen, Schleswig-Holstein), under eradication.

Source: NPPO of Germany (2012-12).

Additional key words: detailed record Computer codes: ACEISP, DE

#### 2012/234 Update on the situation of *Thaumastocoris peregrinus* in Lazio region (IT)

As reported in EPPO RS 2012/147, Thaumastocoris peregrinus (Hemiptera: Thaumastocoridae - EPPO Alert List) was first found in 2011 in Lazio region, Italy. During monitoring activities concerning another eucalyptus pest (Glycaspis brimblecombei), the presence of T. peregrinus was first noticed in August 2011 in Rome and its surroundings on several eucalyptus species (Eucalyptus camaldulensis, E. gomphocephala, E. bridgesiana, and the hybrids E. camaldulensis x E. bicostata, E. camaldulensis x E. grandis). It is estimated that in Lazio region, 8 ha of eucalyptus plantation and the urban park 'Santa Maria di Galeria' are infested. The origin of this introduction is unknown. No specific measures have been taken in Lazio region, as no effective control measures are currently available against this pest.

The pest status of *Thaumastocoris peregrinus* in Italy is officially declared as: **Present**, restricted area near Rome.

Source: NPPO of Italy (2012-10).

Additional key words: detailed record Computer codes: THMCPE, IT

### 2012/235 Updated situation of Meloidogyne chitwoodi and Meloidogyne fallax in France

The NPPO of France recently sent to the EPPO Secretariat several updates about the situation of *Meloidogyne chitwoodi* and *Meloidogyne fallax* (both EPPO A2 List) on its territory. In 2012, new outbreaks have been found in France as a result of the national surveillance programme on potato root-knot nematodes. Although the origin of these outbreaks could not be determined, it is suspected that they are linked to imports of infested plants for planting. Phytosanitary measures were taken to prevent any further spread of these root-knot nematodes and included: delimitation of infested areas, prohibition to move plant material and soil from infested areas, access to infested areas restricted to authorized persons, disinfection of all machinery which may have been in contact with infested material.

#### • Meloidogyne chitwoodi

In 2008, *M. chitwoodi* was found for the first time in Picardie region on black salsify (*Scorzonera hispanica*) and ware potatoes (*Solanum tuberosum*), together with *M. fallax*. In 2009, an outbreak of *M. chitwoodi* (together with *M. fallax*) was detected in Bretagne in greenhouse crops (tomato, lettuce, etc.). In 2010, an outbreak of *M. chitwoodi* (alone) was found in Aquitaine in outdoor vegetable crops. In September 2012, the nematode was found in Ile-de-France in a 400 m² glasshouse of tomatoes (*Solanum lycopersicum*). *M. chitwoodi* was detected in a soil sample, but tomato plants were not showing any root galls. Finally in October 2012, it was also found in Basse-Normandie. It was detected in a soil sample which had been collected from a field of red beet (*Beta vulgaris* var. *esculenta* cv. 'Braco'). No root galls were observed in red beet plants.

The pest status of *Meloidogyne chitwoodi* in France is officially declared as: **Present**, restricted distribution.

#### Meloidogyne fallax

As explained above, *M. fallax* was first detected together with *M. chitwoodi* in Picardie in 2008, and then in Bretagne in 2009. In October 2012, *M. fallax* was found in region Nord-Pas de Calais. It was detected in a soil sample associated with a crop of dandelion (*Taraxacum officinale*).

The pest status of *Meloidogyne fallax* in France is officially declared as: **Present**, restricted distribution.

**Source:** NPPO of France (2012-10, 2012-11).

Additional key words: detailed record Computer codes: MELGCH, MELGFA, FR

#### 2012/236 Eradication of citrus huanglongbing in Argentina

In June 2012, citrus huanglongbing (associated with 'Candidatus Liberibacter asiaticus' - EPPO A1 List) was detected for the first time in Argentina (EPPO RS 2012/183). The NPPO of Argentina (SENASA) recently provided the EPPO Secretariat with more details about this finding and its eradication.

Within the framework of the 'National HLB Prevention Program' carried out by the Ministry of Agriculture, Livestock and Fisheries of Argentina, inspectors from SENASA detected and destroyed a tangerine plant (*Citrus reticulata*) which was infected by citrus huanglongbing. This plant was found in a private residence in the locality of Puerto Deseado (General Belgrano department - Misiones province), a few kilometres away from the border with Brazil. The area where the finding was made is composed of small family homes and gardens, most of which grow *Ilex paraguariensis* (yerba mate). In addition, it is surrounded by protected natural parks and is not an area of commercial citrus production.

As part of a contingency plan, eradication measures were immediately taken and included: 1) destruction of the infected tree; 2) intensification of monitoring activities within a radius of 10 km around the finding site on all potential host plants of the disease and its vector (*Diaphorina citri*), including those occurring in urban or semi-urban areas. As a result of these monitoring activities, 260 samples were collected and tested by real-time PCR and/or nested PCR. 15 plants were found to be infected and destroyed. By now, all potential hosts located around affected plants have been surveyed covering a total surface of 50,000 ha. Monitoring activities were also extended to other parts of Argentina covering more than 52,000 sites with potential host plants. It is underlined that all citrus fruit-

producing provinces were part of the monitoring programme. Tests were performed on 13,160 samples collected from host plant material and *D. citri*; all gave negative results. Therefore, the NPPO of Argentina concluded that its territory should now be considered as free from citrus huanglongbing.

Additional information can be viewed on the SENASA website (in Spanish): <a href="http://www.senasa.gov.ar/Archivos/File/File3511-Informe\_HLB\_2012.pdf">http://www.senasa.gov.ar/Archivos/File/File3511-Informe\_HLB\_2012.pdf</a> <a href="http://www.senasa.gov.ar/Archivos/File/File6229-contingencia2012.pdf">http://www.senasa.gov.ar/Archivos/File/File6221-Informe\_hlb.pdf</a>

Source: NPPO of Argentina (2012-11).

Additional key words: absence, eradication Computer codes: LIBEAS, AR

#### 2012/237 First report of *Chalara fraxinea* in Guernsey

The NPPO of Guernsey recently informed the EPPO Secretariat of the first detection of *Chalara fraxinea* (teleomorph *Hymenoscyphus pseudoalbidus* - EPPO Alert List) on its territory. In October 2012, ash dieback was observed on an outdoor plantation of young ash trees (*Fraxinus excelsior*). The disease was detected during a survey of recent ash plantations and the identity of the fungus was confirmed by real-time PCR. Infected trees had been imported from a nursery in the United Kingdom which was subsequently found to have the disease. In the affected plantation, one standard tree was showing cankers on the stem and dieback was observed in 9 (out of 80) two year-old trees.

The pest status of *Chalara fraxinea* in Guernsey is officially declared as: **Transient**, actionable and under eradication.

Source: NPPO of Guernsey (2012-11).

Additional key words: new record Computer codes: CHAAFR, GG

#### 2012/238 Puccinia horiana found in Lithuania

In 2012-10-05, *Puccinia horiana* (EPPO A2 List) was detected in 2 glasshouses on the same farm in the district of Birzai, Lithuania. The fungus was found on 170 flowering chrysanthemum plants. It is recalled that the first outbreak of *Puccinia horiana* in Lithuania was detected in 1999 (EPPO RS 2000/060). Other outbreaks were then detected and always submitted to eradication measures. In the 2 affected glasshouses official control measures were taken to eradicate the disease. All infected and potentially infected chrysanthemum plants were uprooted and destroyed by burial. Strict phytosanitary inspections will be carried out in the infected glasshouses for at least 1 vegetative period following plant destruction.

The pest status of *Puccinia horiana* in Lithuania is officially declared as: **Present**, **eradicated**, **under official control**.

Source: NPPO of Lithuania (2012-11).

Additional key words: detailed record Computer codes: PUCCHN, LT

#### 2012/239 Mycosphaerella pini detected again in Lithuania

In Lithuania, the presence of *Mycosphaerella pini* (anamorph *Dothistroma septosporum* -EU Annexes) was first confirmed in 2008 in different parts of the country (EPPO RS 2011/084). The NPPO of Lithuania recently reported new findings of *M. pini* on its territory. During the annual visual inspections, 37 symptomatic samples were collected from pine trees (*Pinus sylvestris*, *P. mugo*, *P. nigra*, *P. sibirica*, *P. cembra*) and the presence of *M. pini* was confirmed in 22 of them (in July and October 2012) by morphological and PCR-based methods. Infected samples had been collected from 4 forest nurseries (14 positive samples), 3 forest seed orchards (3 positive samples), and 1 private park (5 positive samples). All infected sites were located in the Kaunas region. Phytosanitary measures were taken. The movement of plants from the outbreak areas is prohibited and additional measures are currently under development. Further investigations to determine the distribution of *M. pini* in Lithuania will be carried out. The pest status of *Mycosphaerella pini* in Lithuania is officially declared as: **Present**, **subject to official control**.

Source: NPPO of Lithuania (2012-11).

Additional key words: detailed record Computer codes: SCIRPI, LT

#### 2012/240 Mycosphaerella dearnessii detected again in Lithuania

In Lithuania, Mycosphaerella dearnessii (anamorph Lecanosticta acicola - EPPO A2 List) was first found in 2010 in the Curonian Lagoon near the Baltic Sea in the Klaipeda region (Western Lithuania - EPPO RS 2010/214). During the annual survey carried out by the NPPO, the presence of M. dearnessii was confirmed by morphological and PCR-based methods in 3 symptomatic samples. These samples had been collected from pine trees (Pinus sylvestris and P. mugo) in a forest near the village of Juodkrantė (again in the Curonian Lagoon, Klaipeda region). Phytosanitary measures were taken. The movement of plants from the outbreak areas is prohibited and additional measures are currently under development. Further investigations to determine the distribution of M. dearnessii in Lithuania will be carried out.

The pest status of *Mycosphaerella dearnessii* in Lithuania is officially declared as: **Present**, subject to official control.

Source: NPPO of Lithuania (2012-11).

Additional key words: detailed record Computer codes: SCIRAC, LT

#### 2012/241 Mycosphaerella dearnessii found on Pinus nigra var. nigra in Austria

In Austria, the presence of *Mycosphaerella dearnessii* (anamorph *Lecanosticta acicola* - EPPO A2 List) was detected for the first time in 1996 (EPPO RS 99/135) on *Pinus mugo* subsp. *mugo* in 1 locality in Niederösterreich. Between 2009 and 2011, the disease was found in new localities in the länder of Niederösterreich, Oberösterreich, Steiemark, Vorarlberg, Tyrol and Salzburg on several hosts (*Pinus mugo* subsp. *mugo*, *Pinus mugo* subsp. *uncinata*, and *Pinus sylvestris*). As in other European countries, *M. dearnessii* has been mostly observed on ornamental pines and only occasionally in forest stands. In July 2011, *M. dearnessii* was detected on ornamental pines in the city of Gmunden

(Oberösterreich) along the north-eastern coast of Lake Traun. The disease was initially found on 2 *P. mugo* subsp. *mugo*, and then on 2 *Pinus nigra* var. *nigra* (10 to 15-years old) growing in a private garden. As previous reports of *M. dearnessii* on *P. nigra* in Europe were considered doubtful, the authors noted that this is the first documented record of *M. dearnessii* on *Pinus nigra* in Europe. This finding might be explained by the combination of a heavy inoculum on nearby *P. mugo* subsp. *mugo* and climatic conditions which were conducive for fungal infections. It is also noted that the possible occurrence of *M. dearnessii* on *Pinus nigra* should be taken into account during survey and diagnostic activities.

Source: Hinsteiner M, Cech TL, Hamschlager E, Stauffer C, Kirisits T (2012) First report of

Mycosphaerella dearnessii on Pinus nigra var. nigra in Austria. Forest Pathology 42,

437-440.

Additional key words: host plant Computer codes: SCIRAC, AT

#### 2012/242 Outbreak of *Pepino mosaic virus* in Ticino (CH)

In Switzerland, *Pepino mosaic virus* (*Potexvirus*, PepMV - EPPO A2 List) was first found in the canton of Fribourg in 2004 A few other cases were subsequently reported in the cantons of Ticino and Zürich, but submitted to eradication measures. From March to May 2012, the presence of PepMV was detected in 3 tomato (*Solanum lycopersicum*) production facilities located in the canton of Ticino. Considering the economic losses caused by PepMV in commercial production facilities, the Cantonal plant health service recommended the destruction of tomato crops and disinfection of the facilities. It is suspected that PepMV has been introduced via infected plant material. All planting material originated from the Netherlands.

For each of the three facilities, the following additional details were given.

- Facility A: 0.9 ha of tomato production, PepMV was identified for the first time in March 2012. Significant yield reduction was observed on cvs. Growdena and Sunstream (both grafted on Maxifort). Total loss (yield loss + plant destruction) was estimated at 80 000 CHF (66 400 EUR).
- Facility B: 2.7 ha of tomato production, PepMV was identified for the first time in May 2012. Significant yield reduction was observed, especially on cv. Komeett (almost total yield loss) and to a lesser extent on cvs. Monalisa, Robinio, and Tastery (all grafted on Maxifort). Total loss was estimated at 297 000 CHF (250 000 EUR).
- Facility C: 14.5 ha of tomato production. PepMV was identified for the second time on this site in May 2012, affecting all tomato cultivars. In 2005/2006, a first outbreak had been notified but successfully eradicated and no symptoms were detected until 2012. Total loss was estimated at 232 000 CHF (193 000 EUR).

The pest status of *Pepino mosaic virus* in Switzerland is officially declared as: **Present**, under eradication, first finding in Switzerland 2004.

**Source:** NPPO of Switzerland (2012-10).

Additional key words: detailed record Computer codes: PEPMV0, CH

#### 2012/243 New findings of *Plum pox virus* in Lithuania

The NPPO of Lithuania recently reported new findings of *Plum pox virus* (*Potyvirus*, PPV - EPPO A2 List) on its territory. As a result of an official annual survey, PPV was detected in 2 fruit tree nurseries and 1 orchard in the Kaunas region in June 2012. During this 2012 survey, a total of 30 orchards (approximately 27 ha) and 80 nurseries (approximately 14 ha) were inspected and 16 samples were tested. The presence of PPV was confirmed in 6 symptomatic samples by ELISA. Official control measures were taken to eradicate the disease. All infected and possibly infected trees were uprooted and burnt. Buffer zones of 250 m radius around each outbreak site were delimited. Official control measures will be applied in the outbreak and buffer zones for the next 3 vegetative periods.

The pest status of *Plum pox virus* in Lithuania is officially declared as: **Present**, at low prevalence.

Source: NPPO of Lithuania (2012-11).

Additional key words: detailed record Computer codes: PPV000, LT

### 2012/244 Plum pox virus found for the first time in the regions of Nord-Pas de Calais and Corse (FR)

The NPPO of France recently informed the EPPO Secretariat of the first reports of *Plum pox virus* (*Potyvirus*, PPV - EPPO A2 List) in two new regions: Nord-Pas de Calais (Northern France) and Corse. In both cases, phytosanitary measures have been taken in accordance with the EU Directive 2000/29/EC (and French legislation) and include: destruction of the infected lot, suspension of the issuance of plant passports for all plots located within a radius of 200 m of the infected plot, tracing-back and tracing-forward studies to identify potentially infected plants, intensification of surveillance activities in the vicinity of the nursery (within a radius of 2.5 km).

#### Nord-Pas de Calais

During official phytosanitary inspections carried out in a nursery, the presence of PPV was confirmed in 8 plum trees (*Prunus domestica* cv. 'Prunes des Roy') by serological and molecular tests. These affected plum trees showed leaf symptoms (yellow ringspots and discouloration) and were grown on the same commercial nursery plot as plants ready to be sold. As similar symptoms were observed in 3 other production plots of this nursery, samples will be collected and tested. If appropriate, phytosanitary measures will be extended to these 3 other potentially infected plots.

#### Corse

During official phytosanitary inspections, symptoms of PPV were first observed in June 2012 in a plum (*Prunus domestica*) orchard. The presence of the virus was confirmed in July and a survey showed that 384 plum trees were infected.

The pest status of *Plum pox virus* in France is officially declared as: **Present, restricted** distribution.

**Source:** NPPO of France (2012-09, 2012-10).

Additional key words: detailed record Computer codes: PPV000, FR

#### 2012/245 EPPO report on notifications of non-compliance

The EPPO Secretariat has gathered below the notifications of non-compliance for 2012 received since the previous report (EPPO RS 2012/194). Notifications have been sent directly to EPPO by Azerbaijan and 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
Acari, Aphididae, Fungi	Ноуа	Cuttings	Thailand	Germany	1
Bemisia tabaci	Ammannia senegalensis	Plants for planting	Thailand	United Kingdom	1
	Asteriscus	Cuttings	Israel	Germany	1
	Васора	Aquarium plants	Sri Lanka	United Kingdom	1
	Caladium	Plants for planting	Singapore	United Kingdom	1
	Cardamine lyrata	Plants for planting	Singapore	United Kingdom	1
	Corchorus acutangulus	Vegetables (leaves)	Lebanon	United Kingdom	1
	Corchorus olitorius	Vegetables (leaves)	Jordan	France	1
	Corchorus olitorius	Vegetables (leaves)	Jordan	United Kingdom	1
	Corchorus olitorius, Ipomoea batatas	Vegetables	Ghana	United Kingdom	1
	Eryngium foetidum	Vegetables (leaves)	Malaysia	Switzerland	3
	Euphorbia pulcherrima	Cuttings	Guatemala	Denmark	1
	Gypsophila, Solidago	Cut flowers	Israel	Netherlands	1
	Hibiscus	Vegetables (leaves)	Togo	France	1
	Hygrophila	Aquarium plants	Singapore	United Kingdom	2
	Hygrophila	Aquarium plants	Thailand	United Kingdom	1
	Hygrophila corymbosa	Aquarium plants	Indonesia	United Kingdom	1
	Ipomoea	Vegetables	Ghana	United Kingdom	1
	Limnophila aromatica	Vegetables	Vietnam	France	1
	Lippia <sup>*</sup>	Cuttings	Israel	United Kingdom	1
	Lisianthus	Cut flowers	Israel	United Kingdom	1
	Manihot	Vegetables	Cameroon	France	1
	Manihot esculenta	Vegetables	Congo, Dem. Rep.	France	2
	Murraya koenigii	Vegetables (leaves)	India	Ireland	7
	Nomaphila	Plants for planting	Thailand	United Kingdom	1
	Ocimum	Vegetables (leaves)	Guatemala	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	Cambodia	United Kingdom	2
	Ocimum basilicum	Vegetables (leaves)	Ghana	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	India	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	Israel	Germany	4
	Ocimum basilicum	Vegetables (leaves)	Israel	Ireland	1
	Ocimum basilicum	Vegetables (leaves)	Israel	Switzerland	3
	Ocimum basilicum	Vegetables (leaves)	Israel	United Kingdom	2
	Ocimum basilicum	Vegetables (leaves)	Kenya	United Kingdom	1
	Ocimum basilicum	Vegetables (leaves)	Malaysia	United Kingdom	1
	Ocimum sanctum	Vegetables (leaves)	Cambodia	France	1
	Pelargonium	Plants for planting	Israel	Bulgaria	1
	Solidago	Cut flowers	Israel	Netherlands	2
	Solidago	Cut flowers	Israel	United Kingdom	1
	Unspecified	Aquarium plants	Singapore	United Kingdom	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Bemisia tabaci, Liriomyza	Ocimum Ocimum basilicum	Vegetables (leaves) Vegetables (leaves)	Spain (Canary isl.) Israel	United Kingdom Ireland	1 2
Bemisia tabaci, Thripidae	Ocimum basilicum	Vegetables (leaves)	Cambodia	United Kingdom	1
Clavibacter michiganensis subsp. michiganensis	Solanum lycopersicum	Seeds	Thailand*	France	2
Colletotrichum	Psidium guajava	Fruits	Brazil	Spain	1
Diptera	Momordica Momordica cochinchinensis Psidium Solanum melongena	Vegetables Vegetables Fruits Vegetables	India India Bangladesh India	United Kingdom United Kingdom Italy Italy	2 1 1 1
	•	-		•	
Dryocosmus kuriphilus (suspected)	Castanea sativa	Plants for planting	Italy	Czech Republic	1
Elsinoe	Citrus paradisi	Fruits	China	France	1
Elsinoe fawcettii	Citrus aurantifolia	Fruits	Brazil	Spain	2
Fungi	Citrus limon	Fruits	Chile	Spain	1
Guignardia citricarpa	Citrus Citrus limon Citrus maxima Citrus sinensis	Fruits	Bangladesh* South Africa China Argentina Argentina Brazil Ghana* Mozambique South Africa South Africa Swaziland*	United Kingdom Belgium Netherlands Netherlands Spain Netherlands United Kingdom Netherlands Netherlands United Kingdom Netherlands United Kingdom Netherlands	3 2 1 1 5 2 2 15 1 3
Helicoverpa armigera	Capsicum frutescens Pisum sativum	Vegetables Vegetables	India Kenya	Ireland Ireland	1 1
Heliothis	Amaranthus	Plant product	Nigeria	Germany	1
Hirschmanniella	Vallisneria spiralis	Plants for planting	Malaysia	Germany	1
Insecta	Lolium perenne	Seeds	USA	Spain	3
Lepidoptera	Abelmoschus esculentus, Trichosanthes Fabaceae Solanaceae Solanaceae Solanum Solanum melongena Tillandsia	Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Plants for planting	India Sri Lanka Bangladesh Sri Lanka Sri Lanka Sri Lanka Gri Lanka Guatemala	Italy	1 1 1 2 1
Leucinodes orbonalis	Solanum melongena Solanum melongena Solanum melongena	Vegetables Vegetables Vegetables	Bangladesh Cameroon India	Sweden Belgium Sweden	4 6 4

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
L. orbonalis (cont.)	Solanum melongena Solanum melongena Solanum melongena	Vegetables Vegetables Vegetables	Malaysia Thailand Uganda	Belgium Belgium Belgium	8 1 1
Liriomyza	Apium graveolens Coriandrum sativum Coriandrum sativum Coriandrum sativum Eryngium Lisianthus Ocimum basilicum Ocimum basilicum Ocimum basilicum Ocimum basilicum Solidago	Vegetables Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables Cut flowers Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Cut flowers	Vietnam Cambodia Israel Vietnam Kenya Kenya India Israel Israel Turkey Zimbabwe	Denmark United Kingdom France United Kingdom Germany United Kingdom	1 1 2 1 1 1 1 1 1
Liriomyza huidobrensis	Apium graveolens Aster Brachycome Chrysanthemum Chrysanthemum Eryngium Gypsophila Gypsophila Ocimum basilicum	Vegetables Cut flowers Cuttings Cut flowers Cut flowers Cut flowers Cut flowers Cut flowers Cut flowers Vegetables (leaves)	Cambodia* Ecuador Tanzania* Ecuador Ecuador Kenya Ecuador Kenya Kenya	Sweden Netherlands Netherlands Spain United Kingdom Netherlands Netherlands United Kingdom	3 1 1 4 1 3 2 1
Liriomyza sativae	Ocimum basilicum Ocimum basilicum	Vegetables (leaves) Vegetables (leaves)	Cambodia* Israel	France Latvia	1 1
Liriomyza trifolii	Apium graveolens Gypsophila Solidago Solidago	Vegetables Cut flowers Cut flowers Cut flowers	Brazil Israel Zambia Zimbabwe	Netherlands Netherlands Netherlands Netherlands	1 2 1 1
Meloidogyne	Chlorophytum	Aquarium plants	Singapore	United Kingdom	1
Opogona sacchari	Chrysalidocarpus Dracaena fragrans Dracaena reflexa	Plants for planting Plants for planting Plants for planting	(Netherlands) Netherlands (Netherlands)	Austria Cyprus Austria	1 1 1
Phytophthora ramorum	Rhododendron catawbiense	Plants for planting	Netherlands	Finland	1
Potato spindle tuber viroid	Solanum lycopersicum	Seeds	China	Austria	1
Rhizoecus hibisci	Zelkova	Plants for planting	China	Netherlands	1
Spodoptera	Unspecified	Cuttings	Spain (Canary isl.)	Netherlands	1
Spodoptera frugiperda	Tillandsia	Cuttings	Guatemala	Netherlands	1
Spodoptera littoralis	Rosa Rosa Solidago	Cut flowers Cut flowers Cut flowers	Uganda Zimbabwe Zimbabwe	Netherlands Netherlands Netherlands	5 1 1
Spodoptera litura	Ocimum basilicum Ocimum gratissimum Rosa	Vegetables (leaves) Vegetables (leaves) Cut flowers	Cambodia Cambodia India	Sweden Sweden Netherlands	2 2 1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Thaumatotibia leucotreta	Citrus paradisi	Fruits	South Africa	Germany	1
	Citrus sinensis	Fruits	South Africa	Lithuania	1
	Citrus sinensis	Fruits	South Africa	Spain	1
				•	
Thripidae	Dendrobium	Cut flowers	Thailand	United Kingdom	1
	Luffa	Vegetables	Ghana	United Kingdom	1
	Luffa acutangula	Vegetables	Ghana	United Kingdom	12
	Luffa acutangula	Vegetables	India	United Kingdom	3
	Momordica	Vegetables	Dominican Rep.	United Kingdom	4
	Momordica	Vegetables	India	United Kingdom	5
	Momordica	Vegetables	Pakistan	United Kingdom	1
	Momordica charantia	Vegetables	India	United Kingdom	6
	Momordica charantia	Vegetables	Pakistan	United Kingdom	1
	Solanum melongena	Vegetables	Cambodia	United Kingdom	1
	Solanum melongena	Vegetables	Dominican Rep.	United Kingdom	4
	Solanum melongena	Vegetables	Ghana	United Kingdom	1
	Solanum melongena	Vegetables	India Malaysia	United Kingdom United Kingdom	3 2
	Solanum melongena	Vegetables	Malaysia	J	1
	Solanum melongena	Vegetables	Pakistan	United Kingdom	ı
Thrips	Ficus benjamina	Plants for planting	Costa Rica	Spain	1
	Momordica charantia	Vegetables	Pakistan	Germany	1
	Solanum melongena	Vegetables	Dominican Rep.	United Kingdom	1
Thrips palmi	Dendrobium	Cut flowers	Malaysia	Netherlands	1
	Dendrobium	Cut flowers	Thailand	Belgium	1
	Momordica	Vegetables	Dominican Rep.	Belgium	1
	Momordica	Vegetables	Dominican Rep.	United Kingdom	1
	Momordica	Vegetables	Sri Lanka	United Kingdom	1
	Momordica charantia	Vegetables	Dominican Rep.	Belgium	2
	Momordica charantia	Vegetables	Malaysia	Belgium	1
	Momordica charantia	Vegetables	Sri Lanka	France	1
	Momordica charantia	Vegetables	Suriname	Netherlands	1
	Momordica cochinchinensis	Vegetables	Bangladesh	United Kingdom	ı
	Momordica, Solanum	Vegetables	Dominican Rep.	Netherlands	1
	melongena Solanum melongena	Vegetables	Dominican Rep.	Belgium	2
	Solanum melongena	Vegetables	Ghana*	United Kingdom	1
	Solanum melongena	Vegetables	India	Netherlands	1
	Solanum melongena	Vegetables	India	United Kingdom	1
	Solanum melongena	Vegetables	Suriname	Netherlands	1
Thysanoptera	Momordica	Vegetables	Malaysia	Switzerland	1
Thysunopteru	Solanum melongena	Vegetables	Dominican Rep.	Switzerland	1
	Solanum melongena	Vegetables	India	Switzerland	1
	Solanum melongena	Vegetables	Mauritius	France	1
Xanthomonas axonopodis pv.	Citrus	Fruits	Bangladesh	United Kingdom	1
citri	Citrus	Fruits	Pakistan	Germany	1
••••	Citrus latifolia	Fruits	Bangladesh	United Kingdom	13
	Citrus latifolia, Citrus limon	Fruits	Bangladesh	United Kingdom	1
	Citrus maxima	Fruits	China	United Kingdom	1
	Citrus sinensis	Fruits	Argentina	Spain	1
	-		3	•	

### • Fruit flies

Pest	Consignment	Country of origin	Destination	nb
Anastrepha	Psidium guajava	Suriname	Netherlands	1
Bactrocera	Citrus maxima Mangifera indica Mangifera indica Psidium guajava Trichosanthes cucumerina	China Senegal Suriname Thailand India	Netherlands France Netherlands Netherlands United Kingdom	5 2 1 2 1
Bactrocera correcta	Psidium guajava	Thailand	Sweden	1
Bactrocera cucurbitae	Momordica Momordica Momordica charantia	Bangladesh Pakistan Bangladesh	United Kingdom Netherlands Sweden	1 1 2
Bactrocera tryoni	Prunus persica var. nucipersica	Australia	Switzerland	1
Bactrocera zonata	Benincasa hispida	India	France	1
Dacus bivittatus	Mangifera indica	Ghana	France	1
Dacus ciliatus	Benincasa hispida Momordica charantia	Pakistan Kenya	France United Kingdom	1 1
Tephritidae (non-European)	Annona Annona Annona Annona cherimola Annona squamosa Capsicum frutescens Citrullus fistulosus Citrus maxima Flacourtia Fortunella Lagenaria siceraria Luffa acutangula Luffa acutangula Mangifera Mangifera Mangifera indica Momordica Momordica Momordica Momordica Momordica Momordica Momordica charantia Momordica charantia	Egypt India Thailand India Thailand Cambodia Ghana China Bangladesh South Africa Ghana India Ghana India Dominican Rep. India Pakistan Sri Lanka Dominican Rep. Pakistan Sri Lanka Thailand India Bangladesh India Bangladesh India Kenya Pakistan Sri Lanka Thailand India Kenya Pakistan Sri Lanka	United Kingdom United Kingdom United Kingdom United Kingdom United Kingdom France United Kingdom Netherlands United Kingdom France United Kingdom Germany United Kingdom	5 7 1 1 1 1 1 1 1 1 1 3 1 9 3 1 2 2 2 1 2 1 2 7 6

Pest	Consignment	Country of origin	Destination	nb
Tephritidae (non-European)	Momordica charantia	Malaysia	Belgium	2
,	Momordica charantia	Pakistan	United Kingdom	1
	Momordica charantia	Sri Lanka	United Kingdom	1
	Momordica cochinchinensis	India	United Kingdom	1
	Passiflora edulis	Uganda	Belgium	1
	Psidium	India	United Kingdom	1
	Psidium	Sri Lanka	United Kingdom	2
	Psidium guajava	Dominican Rep.	Germany	1
	Psidium guajava	Pakistan	United Kingdom	1
	Psidium guajava	Sri Lanka	United Kingdom	2
	Psidium guajava	Thailand	France	1
	Psidium guajava	Thailand	Switzerland	1
	Psidium guajava	Thailand	United Kingdom	2
	Solanum melongena	Sri Lanka	Switzerland	1
	Trichosanthes	Bangladesh	United Kingdom	2
	Trichosanthes	Sri Lanka	United Kingdom	2
	Trichosanthes	Sri Lanka	United Kingdom	3
	Trichosanthes cucumerina	Bangladesh	United Kingdom	1
	Trichosanthes cucumerina	India	United Kingdom	1
	Trichosanthes cucumerina	Sri Lanka	United Kingdom	5
	Vaccinium	Argentina	United Kingdom	2
	Ziziphus jujuba	Thailand	United Kingdom	1

#### • Wood

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Anoplophora glabripennis	Unspecified Unspecified Unspecified	Wood packing material (pallets) Dunnage Wood packing material (pallets)	China China China	Germany Netherlands Switzerland	1 1 1
Apriona germari	Unspecified	Wood packing material (crates)	China	Netherlands	2
Arhopalus rusticus	Unspecified	Dunnage	Belarus	Lithuania	1
Bostrichidae	Unspecified Unspecified Unspecified Unspecified Unspecified	Wood packing material Wood packing material (pallets) Wood packing material Wood packing material (crates) Wood packing material (pallets)	China Hong Kong India India India	Germany Germany Germany Germany	1 1 1 1 3
Cerambycidae	Unspecified Unspecified	Wood packing material (pallets) Wood packing material	China Ukraine	Netherlands Slovakia	2 4
Cerambycidae larva	Unspecified	Wood packing material (crates)	China	Denmark	1
Cerambycidae, Lepidoptera	Unspecified	Wood packing material (pallets)	China	Germany	1
Coleoptera	Entandrophragma cylindricum	Wood and bark	Central African Rep.	Spain	1
	Entandrophragma cylindricum	Wood and bark	Congo	Spain	2
	Unspecified	Wood packing material (pallets)	India	Slovenia	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Grub holes and sawdust	Unspecified	Wood packing material (pallets)	China	Germany	1
Insecta	Unspecified Unspecified Unspecified	Wood packing material (pallets) Wood packing material (pallets) Wood packing material (pallets)	Indonesia	Switzerland Switzerland Switzerland	3 1 1
Monochamus	Unspecified	Wood packing material (crates)	China	Netherlands	1
Nematoda	Unspecified	Wood packing material (crates)	China	Finland	1
Scolytidae	Entandrophragma cylindricum	Wood and bark	Congo	Spain	2
Sinoxylon	Unspecified	Wood packing material (crates) Wood packing material (pallets) Wood packing material Wood packing material (crates) Wood packing material (pallets) Wood packing material (crates) Wood packing material (pallets) Wood packing material (crates) Wood packing material (pallets) Wood packing material (pallets) Wood packing material Wood packing material Wood packing material (crates) Wood packing material (pallets)	China India India India India India India India Pakistan Pakistan Philippines Sri Lanka Sri Lanka	Germany Slovenia Germany Germany Netherlands Slovenia Germany Germany Germany Germany Germany	1 1 6 7 12 2 1 2 1 1 2 1
Sinoxylon anale	Unspecified Unspecified	Wood packing material (pallets) Wood packing material (pallets)		Germany Italy	1 1
Termitidae	Unspecified	Wood packing material (pallets)	Hong Kong	Germany	1

#### • Bonsais

Pest	Consignment	Country of origin	Destination	nb
Anoplophora chinensis	Acer	China	Belgium	1
Nematoda	Zanthoxylum	China	France	1

**Source:** EPPO Secretariat, 2012-11.

### 2012/246 New section on 'validation data' added to the EPPO database on diagnostic expertise

A new section "validation data for diagnostic tests" has just been made open access in the EPPO database on diagnostic expertise. This new section includes validation data generated by various official laboratories in the EPPO region for diagnostic tests for regulated pests. The validation data are presented according to a common format and can be submitted by any laboratory registered in the EPPO database on diagnostic expertise. Visit this new section at <a href="http://dc.eppo.int/validationlist.php">http://dc.eppo.int/validationlist.php</a>

**Source:** EPPO Secretariat (2012-12).

Additional key words: databases

#### 2012/247 3<sup>rd</sup> European Bois Noir Workshop (Barcelona, ES, 2013-03-20/21)

In 2013-03-20/21, the 3rd European Bois Noir Workshop will be held in Barcelona, Spain. The Workshop will cover the following topics:

- Epidemiology of the bois noir disease
- Diagnosis and characterization of the stolbur phytoplasma in grapevine and other natural hosts
- Vectors of the stolbur phytoplasma
- Control strategies
- Other related topics

For further information, visit the Workshop website: http://www.boisnoir2013.eu

**Source:** EPPO Secretariat (2012-10).

Additional key words: conference

#### 2012/248 The alien and invasive flora of Greece

The alien flora of Greece includes 343 taxa of which 294 are neophytes (86%). The total number of the alien taxa reported for Greece is relatively low compared to those of other Mediterranean and Southern European countries, namely Italy, Spain and Portugal. The American continent is the origin of the majority of the neophytes (133 taxa representing 46%). The next most frequent areas of origin of neophytes are Asia, Africa and the Mediterranean basin. Most neophytes (75%) have been introduced intentionally for agricultural or ornamental purposes. Artificial habitats, especially cultivations and road networks host the highest numbers of neophytes. The natural habitats that host the highest numbers of neophytes are the coastal zones and inland surface waters.

50 of these naturalized neophytes were considered by the authors to fulfill the criteria to be characterized as invasive. These are listed in the table below with their family, origin and occurrence in the EPPO region:

Species and family	Origin	Occurrence in the EPPO region
Acer negundo (Sapindaceae)	N-Am.	Widespread
Aeonium arboreum (Crassulaceae)	Macaronesian	CY, ES (Incl. Baleares), MT, PT (Madeira where it is indigenous)
Agave americana (Asparagaceae)	N-Am.	Widespread in the Mediterranean
Ailanthus altissima (Simaroubaceae, EPPO List of Invasive Alien Plants)	E Asia	Widespread
Amaranthus albus (Amaranthaceae)	N-Am.	Widespread
Amaranthus blitoides (Amaranthaceae)	N-Am.	Widespread
Amaranthus deflexus (Amaranthaceae)	S-Am.	Widespread
Amaranthus hybridus (Amaranthaceae)	N-Am.	Widespread
Amaranthus quitensis (Amaranthaceae)	S-Am.	PT (Azores), Spain (Baleares)
Amaranthus retroflexus (Amaranthaceae)	N-Am.	Widespread
Amaranthus viridis (Amaranthaceae)	S-Am.	Widespread
Aptenia cordifolia (Aizoaceae)	S-Af.	Widespread in the Mediterranean
Arundo donax (Poaceae)	C Asia	Widespread in the Mediterranean
Aster squamatus (Asteraceae)	Neotrop.	Widespread
Azolla filiculoides (Azollaceae, EPPO Observation List)	Neotrop.	Widespread
Gomphocarpus fruticosus (Apocynaceae)	S-Af.	Widespread in the Mediterranean
Carpobrotus edulis (Aizoaceae, EPPO List of IAP)	S-Af.	Widespread
Cenchrus incertus (Poaceae, EPPO List of IAP)	Neotrop.	Widespread
Chenopodium ambrosioides (Amaranthaceae)	Pantrop.	Widespread
Chenopodium multifidum (Amaranthaceae)	S-Am.	Widespread in the Mediterranean
Conyza bonariensis (Asteraceae)	Neotrop.	Widespread
Conyza canadensis (Asteraceae)	N-Am.	Widespread
Conyza sumatrensis (Asteraceae)	Neotrop.	
Coronopus didymus (Brassicaceae)	S-Am.	Widespread
Cotula coronopifolia (Asteraceae)	S-Af.	Widespread
Cuscuta campestris (Convolvulaceae)	N-Am.	Widespread
Cymbalaria muralis (Plantaginaceae)	S-Eur.	Widespread
Datura stramonium (Solanaceae)	Cosmopolitan	Widespread
Elaeagnus angustifolia (Elaeagnaceae)	Temp Asia	Widespread

#### **EPPO Reporting Service** – *Invasive Plants*

Species and family	Origin	Occurrence in the EPPO region
Eleusine indica (Poaceae)	Cosmopolitan	Widespread
Chamaesyce maculata (Euphorbiaceae)	N-Am.	Widespread
Chamaesyce prostrata (Euphorbiaceae)	N-Am.	Widespread
Halophila stipulacea (Hydrocharitaceae)	W Indian	CY, IT (Sicilia), MT, TN, TR
	Ocean, Red Sea	and AL, EG, LB
Heliotropium curassavicum (Boraginaceae)	Neotrop.	ES (incl. Baleares, Canarias), FR, IT (incl. Sardinia), PT (incl. Azores), TR
Malephora purpurocrocea (Aizoaceae)	S-Af.	ES (Baleares)
Medicago sativa subsp. sativa (Fabaceae)	Paleotemp.	Widespread
Nicotiana glauca (Solanaceae)	S-Am.	Widespread
Opuntia ficus-indica (Cactaceae)	Neotrop.	Widespread in the
		Meditarranean
Opuntia vulgaris (Cactaceae)	N-Am.	Widespread in the
		Meditarranean
Oxalis debilis var. corymbosa (Oxalidaceae)	S-Am.	Widespread in the
		Meditarranean
Paspalum dilatatum (Poaceae)	S-Am.	Widespread in the
		Mediterranean
Paspalum distichum (Poaceae, EPPO List of	Neotrop	Widespread in the
Invasive Alien Plants)		Mediterranean
Phytolacca americana (Phytolaccaceae)	N-Am.	Widespread
Ricinus communis (Euphorbiaceae)	Paleotrop	Widespread
Robinia pseudoacacia (Fabaceae)	N-Am.	Widespread
Salix fragilis (Salicaceae)	Eurosiberian	Native in a large part of the EPPO region
Setaria adhaerens (Poaceae)	Sub-cosmop.	CY?
Solanum elaeagnifolium (Solanaceae, EPPO A2 List)	S-Am.	CS, CY, DZ, ES, FR, HR, IT (incl. Sardinia, Sicilia), IL, MA, MK, TN,TR,
Solanum physalifolium (Solanaceae)	S-Am.	BE
Veronica persica (Plantaginaceae)	W Asia	Widespread
Xanthium orientale (Asteraceae)	S Eur.	Widespread
Xanthium spinosum (Asteraceae)	S-Am.	Widespread
Zantedeschia aethiopica (Araceae)	S-Af.	ES (Baleares), FR (incl. Corse), GB, IE, IT (incl. Sicilia), PT (Azores, Madeira)

Other alien plants occurring in Greece, although not having been identified in this publication as invasive, are considered invasive by EPPO and could usefully be followed: Ambrosia artemisiifolia (Asteraceae, EPPO List of IAP), Amorpha fruticosa (Fabaceae, EPPO List of IAP), Araujia sericifera (Apocynaceae, EPPO Observation List), Fallopia baldschuanica (Polygonaceae, EPPO List of IAP), Fallopia japonica (Polygonaceae, EPPO List of IAP), Fallopia sachalinensis (Polygonaceae, EPPO List of IAP) and Helianthus tuberosus (Asteraceae).

Source:

Arianoutsou M, Bazos I, Delipetrou P, Kokkoris Y (2010) The alien flora of Greece: taxonomy, life traits and habitat preferences. *Biological Invasions* DOI 10.1007/s10530-010-9749-0.

Additional key words: invasive alien plants

Computer codes: GR, ABKDO, ACRNE, AEJAR, AGVAM, AILAL, AJASE, AMAAL, AMABL, AMADE, AMAQU, AMARE, AMAVI, AMBEL, AMHFR, APJCO, ASTSQ, BIKBA, CBSED, CBYMU, CCHPA, CHEAM, CHEMF, COPDI, CULCO, CVCCA, DATST, ELEIN, ELGAN, EPHMA, EPHPT, ERIBO, ERICA, GOPFR, HAHST, HELTU, HEOCU,

NIOGL, OPUFI, OPUVU, PASDI, PASDS, PHTAM, POLCU, REYSA, RIICO, ROBPS, SAXFR, SETAD, SOLAL, SOLPS, VERPE, XANOR, XANSP, ZNTAE

#### 2012/249 First report of *Thladiantha dubia* in Croatia

Thladiantha dubia (Cucurbitaceae) is a climber vine native to Northern China. This plant has been cultivated in Europe from the second half of the 19<sup>th</sup> century and it escaped from cultivation to establish populations in Central and South-Eastern Europe. The species is known to be established in Austria, Germany, Hungary, Lithuania, Poland, Romania, Russia, Serbia and Slovakia, and to be casual in Czech Republic, Italy, and Ukraine although its exact status is not always clear. It climbs up shrubs along railways, riverbanks; it also grows in maize fields, on the borders of vineyards and on waste deposits. *T. dubia* is considered invasive in Japan, whereas in Europe, it is not considered to be spreading or invasive, except in Austria where it is recorded as harmful to maize production.

The plant was reported for the first time in Croatia in Zagreb in the Savica area, a complex of small eutrophic lakes. *T. dubia* was found in nitrophilous, ruderal habitats, i.e. in strongly disturbed stands of floodplain forests of willows and poplars. The population is relatively large and consists of a few hundred individuals climbing on neighbouring trees and shrubs, covering approximately 100 m<sup>2</sup>. The species mainly reproduces vegetatively through tubers, and it is not known if this dioecious species can reproduce sexually. *T. dubia* is thought to have entered Croatia through contaminated soil. Although the species is considered as non-invasive, it could be usefully monitored.

Source:

Alegro A,Bogdanović S, Rešetnik I, Boršic I (2010) *Thladiantha dubia* Bunge (Cucurbitaceae), new alien species in Croatian flora. *Natura Croatica* **19**, 281-286. http://bib.irb.hr/datoteka/473919.alegro-et-al-thladiantha-dubia.pdf

DAISIE Species factsheet - *Thladiantha dubia* http://www.europe-aliens.org/speciesFactsheet.do?speciesId=14797#

Additional key words: invasive alien plant, new record

## 2012/250 Eichhornia crassipes and Pistia stratiotes in Campania and Sardinia (Italy)

Eichhornia crassipes (Pontederiaceae, EPPO A2 List) and *Pistia stratiotes* (Araceae, EPPO List of IAP) were introduced in Campania and Sardinia in Italy for ornamental and bioremediation purposes. The 2 species are now invasive in these provinces and are being mechanically controlled.

Source:

Brundu G, Stinca A, Angius L, Bonanomi G, Celesti-Grapow L, D'Auria G, Griffo R, Migliozzi A, Motti R, Spigno P (2012) *Pistia stratiotes* L. and *Eichhornia crassipes* (Mart.) Solms.: emerging invasive alien hydrophytes in Campania and Sardinia (Italy). *EPPO Bulletin/Bulletin OEPP* **42**(3), 568-579.

Additional key words: invasive alien plants

Computer codes: THDDU, HR

Computer codes: EICCR, PIIST, IT

Computer codes: PESSA

#### 2012/251 Environmental factors promoting the spread of *Pennisetum setaceum*

Pennisetum setaceum (Poaceae, EPPO List of Invasive Alien Plants) is a perennial grass native to the North African arid Mediterranean area (Algeria, Morocco, Tunisia) and naturalized in the EPPO region in France, Italy (including Sardinia) and Spain (including Baleares and Islas Canarias). The species is invasive in South Africa where it is declared a noxious weed. Research has therefore been undertaken to understand the factors promoting the spread of this emergent alien grass. The effects of temperature regimes, nutrient and moisture addition, and soil type on seedling growth rates and biomass allocation were investigated. The results suggest that P. setaceum seedlings do not tolerate drought (they died within 1 month without water). Additional nutrients and extra water increased seedling growth rates throughout the study period. Higher temperatures with extra moisture increased seedling growth rates and the development of belowground biomass throughout the study period. This study demonstrates the importance of available environmental resources and their interaction with habitat conditions in promoting P. setaceum growth. These findings suggest that soil moisture and nutrient availability are critical factors affecting successful establishment of P. setaceum in arid environments. Managers should aim for removal of seedlings following precipitation and in areas of nutrient enrichment, such as near rivers and at road-river crossings.

Source:

Rahlao JS, Esler KJ, Milton SJ, Barnard P (2010) Nutrient addition and moisture promote the invasiveness of crimson fountaingrass (*Pennisetum setaceum*). Weed Science **58**(2), 154-159.

Additional key words: invasive alien plant, management

#### 2012/252 A review of research on biological invasions

Species introductions of anthropogenic origins are a major aspect of rapid ecological change globally. The literature on biological invasions is enormous; it has grown rapidly since the mid-twentieth century as scientists, managers, policy makers, and the public have become increasingly aware of the many applied issues of managing invasive species, as well as the fundamental ecological questions raised by biological invasions. This paper identified 2398 relevant studies of the biological invasions literature. A majority of these studies (58%) were dealing with hypotheses for causes of biological invasions, while studies on impacts of invasions were the next most common (32% of the publications). 1537 papers were examined in greater detail in a systematic review. Superior competitive abilities of invaders, environmental disturbance, and invaded community species richness were the most common hypotheses examined. Most studies examined a single hypothesis. Almost half of the papers were field observation studies. Although this research was widely distributed globally, studies were clustered in North America, Western Europe, Eastern Australia, New Zealand, and Hawaii, with smaller clusters in South Africa, temperate South America, China, and scattered studies elsewhere. A dramatic lack of studies was noted for the tropics. Studies of terrestrial invasions dominate the literature, with most of these concerning plant invasions.

Source:

Lowry E, Rollinson EJ, Laybourn AJ, Scott TE, Aiello-Lammens ME, Gray SM, Mickley J, Gurevitch J (2012) Biological invasions: a field synopsis, systematic review, and database of the literature. *Ecology and Evolution*.

http://onlinelibrary.wiley.com/doi/10.1002/ece3.431/pdf

Additional key words: biological invasions

Computer codes: CH

### 2012/253 Conclusions from the Seminar on International Trade and Invasive Alien Species of the Standards and Trade Development Facility

The Standards and Trade Development Facility (STDF), in collaboration with the International Plant Protection Convention (IPPC) and the World Organisation for Animal Health (OIE) organized a Seminar on International Trade and Invasive Alien Species (IAS) in Geneva on 12-13 July 2012.

The seminar sought to:

- raise awareness about the mutually beneficial goals of the SPS Agreement and Convention on Biological Diversity (CBD);
- foster collaboration between the SPS and the CBD "communities" at both regional and national levels; and
- review initiatives that aim to build national and/or regional capacities to manage the entry and spread of IAS, including pests and diseases, and discuss common challenges, good practices, and additional capacity building efforts required (e.g. assessment needs, pest risk analyses (PRA), surveillance, development of training toolkits and materials, etc.).

The Seminar was attended by approximately 110 participants working in areas related to both biodiversity and SPS measures.

The key findings and conclusions are summarized in a briefing note which can be viewed on the seminar webpage: <a href="http://www.standardsfacility.org/en/TAIAS.htm">http://www.standardsfacility.org/en/TAIAS.htm</a>

**Source:** EPPO Secretariat (2012-11)

Additional key words: invasive alien species, trade

2012/254

Freshwater invasive species conference (Galway, IE, 2013-04-8/11)

The 'Freshwater Invasives - Networking for Strategy' (FINS) conference will be hosted by Inland Fisheries Ireland (IFI) and the European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC). FINS will address key topics relating to freshwater invasive species and harmful aquatic pathogens (including invasive alien plants).

The primary objective of the conference is to provide a forum where international scientists, policy makers and stakeholders will address designated themes with a view to informing management and policy development in the area. The themes that will provide the focus for deliberations during the conference will be policy & strategy, biosecurity, management and economics.

**Source:** Freshwater Invasives - Networking for Strategy

http://finsconference.ie/sample-page/

Additional key words: Invasive alien plants, conference Computer codes: IE

#### 2012/255 4th EWRS International Symposium on Weeds & Invasive Plants 'Intractable Weeds and Plant invaders' (Montpellier, FR, 2014-05-18/23)

The 4th EWRS Symposium on Weeds & Invasive Plants will be held in Montpellier (FR) on 2014-05-18/23. The series of meetings entitled 'Intractable Weeds and Plant invaders' was initiated in 2006 and takes place every three years in a different European country. The objective of this Symposium is to bring together specialists on biology, ecology, invasive weed science and management practices, and to share experiences on plant invaders and intractable weeds in both agricultural and natural ecosystems. For this 4<sup>th</sup> symposium, a particular focus will be given to invasive weeds in the Mediterranean region.

The provisional sessions of the scientific program are indicated below:

- Agricultural weeds and invasive plants in the Mediterranean region;
- Ragweeds (Ambrosia artemisiifolia, A. trifida, A. psilostachya, etc.) and other emerging invasive plants affecting human health;
- Invasive plants in aquatic ecosystems;
- Biology, ecology and impacts of invasive plants;
- Management strategies for invasive plants: prevention and control;

- Economic, sociological and ethical aspects.

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Symposium website: http://www.ansespro.fr/invasiveplants2014/

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