



European and Mediterranean Plant Protection Organization

Organisation Européenne et Méditerranéenne pour la Protection des Plantes

EPPO highlights for 2016

Event **NAPPO Annual Meeting, Montreal, Canada**

Date **2nd November 2016**

Françoise Petter (Assistant Director) - hq@eppo.int



European and Mediterranean Plant Protection Organization

- **EPPO Created in 1951 by 15 countries**
- **International cooperation in plant protection (plant quarantine and plant protection products)**



**In 2016:
51 member
countries**

The image shows a map of Europe and the Mediterranean region. A starburst callout on the left side of the map contains the text 'In 2016: 51 member countries'. The map highlights the member countries of the EPPO in a light green color, covering most of Europe and the Mediterranean basin. The sea is shown in light blue, and other landmasses are in a light beige color.

Remit

- Efficacy of plant protection products
- Plant quarantine
- Invasive alien plants
- Biological control agents
- Plant certification schemes (not currently active)

by:

- Drafting and adoption of regional technical standards
- Input to development of international standards
- Sharing information and expertise through networks



Organisation

National Plant Protection Organisations

EPPO Council

Executive
Committee

Working Party on
Phytosanitary Regulations

Working Party on
Plant Protection Products

Expert Panels

Expert Panels

National Experts

EPPO Secretariat

EPPO technical groups

Panels & EWG

Panels are composed of **experts nominated by EPPO member countries**

Meet once a year (or twice)

Prepare draft recommendations most of which in the form of Standards



Working Parties (composed of representative of NPPOs)
Phytosanitary Regulations
Plant Protection Products



Active Panels

Plant Protection Products

- General Standards
- Herbicides
- Insecticides and Fungicides
- Resistance
- Harmonisation of Data Requirements

Phyosanitary Regulations

- Global Affairs
- Phytosanitary Measures
- Forestry
- Potatoes
- Inspection Procedures
- Information
- Diagnostics (General) +
 - Entomology
 - Nematology
 - Bacteriology
 - Mycology
 - Virology & Phytoplasmaology
- Invasive Alien Plants
- Biological Control Agents

Ad hoc Expert Working Groups

- Mainly for Pest Risk Analyses (five per year)
- Nominated by countries, selected by secretariat
- Experts in specific aspects of risk
- Include experts from continents where pest is present
- Expenses paid from EPP0 budget

EWG for performing a PRA on *Lycorma delicatula* (February 2016)

Participants from NAPPO

Leo DONOVALL (Pennsylvania Department of Agriculture, USA). via Skype during the entire meeting!

As well as Lawrence Barringer and Sven-Erik Spichiger



Secretariat

- **Martin Ward** Director General
- **Françoise Petter** Assistant Director
- **Vlasta Zlof** Scientific Officer (Plant Protection)
- **Andrei Orlinski** Scientific Officer (Forestry and Biocontrol)
- **Anne-Sophie Roy** Information Officer
- **Muriel Suffert** Scientific Officer (Potatoes and PRA)
- **Rob Tanner** Scientific Officer (Invasive Alien Plants)
- **Valerio Lucchesi** Scientific Officer (Plant Protection)
- **Camille Picard** (seconded by FR) Scientific Officer (mainly RNQPs)
- **Damien Griessinger** Information Technology Officer
- **Madeleine McMullen** Managing Editor
- **Eliane Madène** Administrator
- **Jocelyne Cesari** Secretary
- **Cintia Mauchien** Administrative Assistant
- **Baldissera Giovani** Euphresco Co-ordinator
- **Jeroen Meeussen** EU Minor Uses Co-ordinator



Some highlights for the year 2016...



Plant Protection Products

“EU Minor Uses Co-ordination Facility” in motion:

6 Commodity Expert Groups (CEG) (2 meetings in 2016):

- CEG fruit and vegetables
- CEG ornamentals
- CEG tobacco
- CEG rice
- CEG hops
- CEG seeds



- sharing of information and experience at national level;
- coordination of minor use work between Member States and stakeholders;
- creation and maintenance of a data base on minor uses;
- stimulation of harmonisation (e.g. crop group and pest group definitions, development of guidance).



EPPO Codes

- Two types of EPPO Codes (taxonomic and non-taxonomic) in one single database (EPPO Global Database).

Non-taxonomic codes

Draft classifications of codes for **Crop Groups** (i.e. groups, sub-groups, list of species) prepared :

- Arable crops - including cereals
- Fruit
- Vegetables
- Herbs, spices and medicinal plants
- Ornamentals (top levels only)

Useful for exchange of data for plant protection products authorization

Taxonomic codes

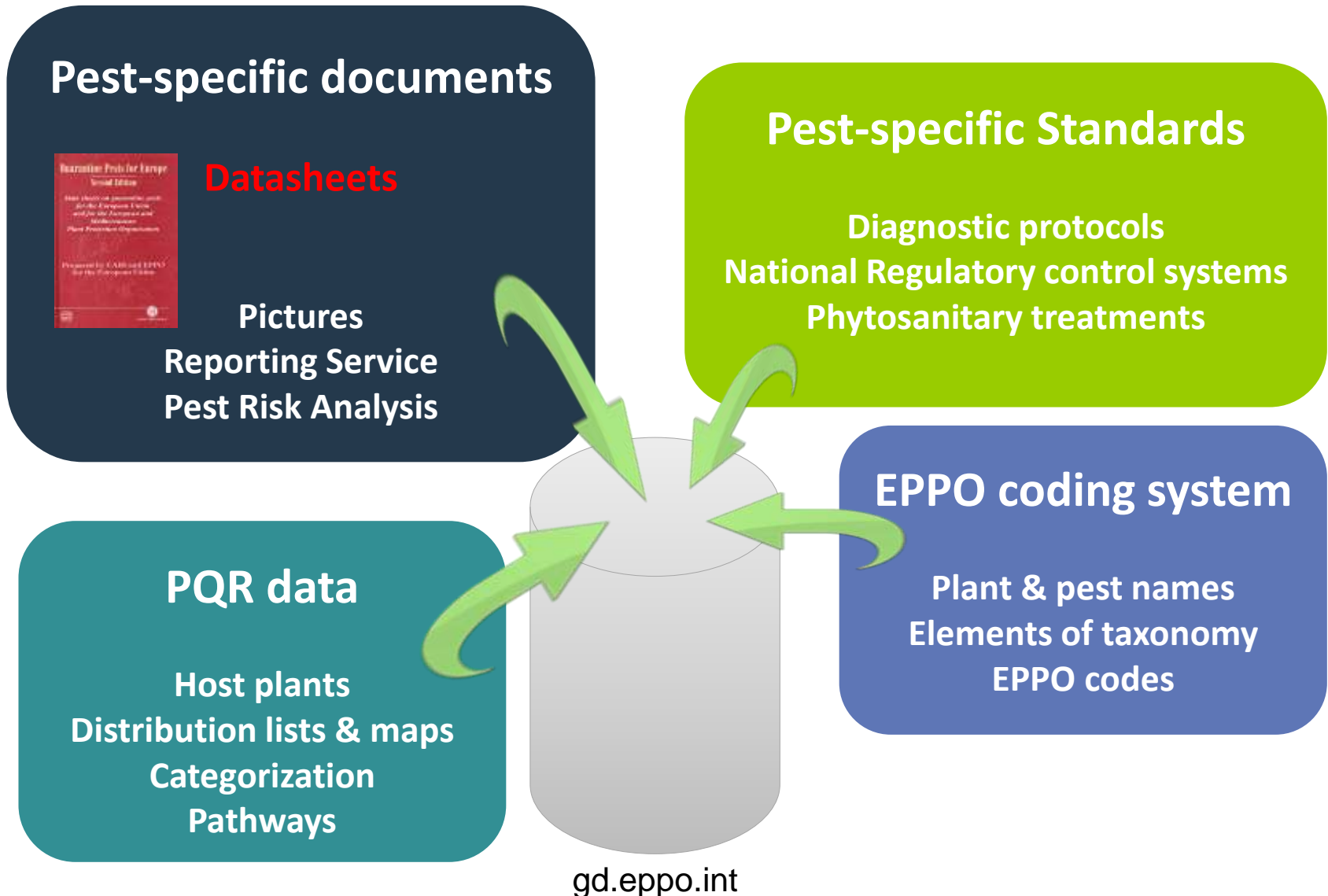
- Codes for over 30,000 pests and 30,000 host plants
- c. 2,000 new codes added each year
- Taxonomic structure
- 120,000 common names in > 20 languages
- Used (and originally developed) by pesticide industry
- Key to EPPO, EU, IPPC and national databases
- Free to users, with recovery of costs for new codes

EPPO Ad hoc Panel on Harmonization of data on PPP



Kingdom	Animalia	1ANIMK
Phylum	Arthropoda	1ARTHHP
Subphylum	Hexapoda	1HEXHP
Class	Insecta	1INSEC
Order	Hemiptera	1HEMIO
Suborder	Sternorrhyncha	1STERR
Family	Aleyrodidae	1ALEYF
Genus	Bemisia	1BEMIG
Species	Bemisia tabaci	1BEMITA

Information Services: new “EPPO Global Database”





Xylella fastidiosa (XYLEFA)



MENU

- Overview
- Distribution
- Host plants
- Host commodities
- Categorization
- Reporting
- Photos
- Documents →

Associated EPPO Standards

Number	Title	Download
PM1/002(24)	EPPO A1 and A2 Lists of pests recommended for regulation as quarantine pests (2015)	Download ▾
PM3/076(1)	Trees of <i>Malus</i> , <i>Pyrus</i> , <i>Cydonia</i> and <i>Prunus</i> spp. – inspection of places of production	Download ▾
PM3/081(1)	Inspection of consignments for <i>Xylella fastidiosa</i>	Download ▾
PM3/082(1)	Inspection of places of production for <i>Xylella fastidiosa</i>	Download ▾
PM4/032(1)	Certification scheme for <i>Sambucus</i>	Download ▾
PM7/024(2)	<i>Xylella fastidiosa</i>	Download ▾

Associated documents

EPPO Datasheets

Lang	Title	Comments	Download
	Data sheet on <i>Xylella fastidiosa</i>		Download

Common names

fastidiosa, *Phaeoacremonium* spp., *Phaemoniella* spp., and *Zeuzera pyrina* have been found in association with

Courtesy: M. Scortichini, Istituto Sperimentale per la Frutticoltura, Roma (IT).

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Raising awareness activities: posters (in preparation)



CAN YOU HELP US?

Emerald ash borer A threat to ash trees



What is it?

The emerald ash borer (*Agrilus planipennis* - Coleoptera: Buprestidae) originates from Asia but has been inadvertently introduced into other parts of the world (e.g. Canada and USA) where it has killed millions of ash trees. In the mid-2000s, it was discovered in the European part of Russia, near Moscow. As its spread is threatening ash trees in our forests and urban environments, it is important to detect it as early as possible.

Damage



Contact us!

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Tel: +352 2292 7300 - Fax: +356 21415593

Freephone: 8007 2330
Email: plant.health@gov.mt



Learn more about the emerald ash borer: www.planthealth.gov.mt

CAN YOU HELP US?

Popillia japonica A threat to lawns, woods and crops



What is it?

Popillia japonica is a beetle (Coleoptera: Rutelidae) originating from Japan which has been inadvertently introduced into other parts of the world (e.g. Azores Islands and USA). In summer 2014, it was found for the first time in continental Europe, near Milano in Italy. *Popillia japonica* attacks many plants (almost 300 species). Its larvae feed on plant roots and are particularly damaging in lawns and meadows. Adult beetles are voracious leaf feeders.

How to recognize it?



Adult beetles are about 10-12 mm long with iridescent copper-coloured elytra and metallic green thorax and head. They can be identified by the presence of 12 tufts of white hair on their body (5 along each side of the abdomen and 2 larger ones near the bottom end). Other life stages (eggs, larvae, pupae) live in the soil and are difficult to see.



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Learn more about *Popillia japonica*



This poster has been prepared in collaboration with EPPO (www.eppo.int)

CAN YOU HELP US?

Huanglongbing A threat to citrus



What is it?

Huanglongbing (also called greening) is a severe bacterial disease of citrus associated with 'Candidatus Liberibacter asiaticus'. Affected trees are stunted, with sparse yellow foliage, and fruit fall prematurely. As these symptoms can be confused with other diseases or nutrient deficiencies, laboratory analysis might be required to confirm suspicions. Bacteria associated with Huanglongbing do not affect humans but cause serious losses to citrus production. Two insect species are known to transmit Huanglongbing to citrus plants: *Diosaphis citri* and *Toxoptera erythraea*.

Disease vectors



Adult and eggs of *Diosaphis citri*

Toxoptera erythraea. This insect transmits the disease and also causes leaf galls on the leaves when feeding.



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Project on Regulated Non-Quarantine Pests

RNQP status introduced in the new EU Plant Health Law (PHL)

A two year project funded by the EU COM launched in April 2016 (covering taxonomy, evaluation of the RNQP status, risk management measures, tolerance levels)

PHASE 1:

- Development of a **methodology** (completed)
- Call for evidence from Member States and stakeholders (questionnaire sent data being gathered)

PHASE 2:

- 6 **sector-EWG** established to apply the methodology in relation to different plants and crop groups.

Vegetable
plants

Herbaceous and
Woody Ornamentals

Fruits and
Vine

Potatoes
(EPPO Panel)

Forestry
(EPPO Panel)

Agricultural
species

Project on Invasive Alien Plants



Mitigating the threat of invasive alien plants to the EU through pest risk analysis to support the Regulation 1143/2014

Objectives

- **To prepare pest risk analysis for 16 invasive alien plants compliant with the EU Regulation no. 1143/2014,**
- **To facilitate knowledge transfer and capacity building in pest risk analysis within the EU.**



**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

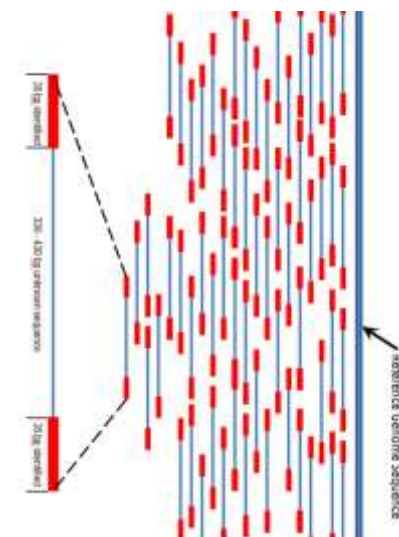
Xylella fastidiosa

- Revision of the EPPO Diagnostic protocol (consultation with US experts)
- Inspection standards:
 - Consignment inspections for *Xylella fastidiosa*
 - Inspection of places of production for *Xylella fastidiosa*



Diagnostics

- DNA barcoding as an identification tool for selected regulated pests
- Guideline on the authorization of laboratories to perform diagnostic activities for regulated pests (new based on the NAPPO RSPM 9)
- First discussions on the implications of new diagnostic tools such as Next Generation Sequencing



Commodity studies and commodity PRAs



EU project

EPPO's contribution is on pathways of introduction of fruit pests and pathogens

- Review of pest introductions into the EU
- Establish alert lists of pests for 4 fruit crops based on a screening process (Apple, Vaccinium, Citrus, Vitis)

Guidelines to establish pest lists in commodity PRAs *in preparation*

Based on the experience with commodity studies performed in recent years (tomato and DROPSA)

Biological control agents



- Decision support scheme for the import and release of biological control agents under development
- Collaboration between EPPO and IOBC



Source: Agrobio S.L., (n.d.). *Amblyseius montdorensis*.



Sphaerophoria rueppellii
BioNostrum Pest Control
S.L., Spain. .

Forestry: PM 8 Standards

Standards making recommendations about phytosanitary measures which should be used or required by EPPO member countries for certain commodities moving in trade to prevent introduction and spread of quarantine pests.

- PM 8/3 Quercus (revision)
- PM 8/3 Castanea (revision)
- PM 8/X Betula(new)
- PM 8/X Populus (new)
- PM 8/X Salix (new)

Euphresco (Plant Health Research Co-ordination) success story

- Started as an EU supported ERA-net in 2006
- Since 2014 a self sustaining network of members who are funders and managers of plant health research
- Members in 53 countries i.e. all EPPO Members **plus Canada & US**
- **Achievements so far**
 - 15 projects funded in 2015, total budgets about 3.2M€
 - 2016 - topic call round - 25 topics on shortlist
 - Provides advice on research priorities e.g. to EU

Welcomes new members who meet the criteria



Collaboration with NAPPO

- Longstanding relationship between the two RPPOs
- Instrumental (with others) in launching the IPPC Secretariat and the first International Standards
- Regular participation in each others' meetings
- Exchange of expertise and information
- Continue to work together to improve the global phytosanitary framework
- Regional Organizations have a key role in delivering better implementation (e.g. NAPPO work on ISPM15)

EPPO succeeds only through collaboration between experts in the region and beyond ... Thank you for your attention

