#### The role of EPPO in supporting riskbased sampling and inspection

Nico Horn

**Director-General** 

OEPP/EPPO 21 bd Richard Lenoir, Paris 75011 www.eppo.int



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#### The European and Mediterranean Plant Protection Organization

- Regional Plant Protection Organization
- Created in 1951, now 52 member countries
- Two permanent observers: European Commission European Economic Commission

## The European and Mediterranean Plant Protection Organization



- Intergovernmental organization
- Supports National Plant Protection Organizations (NPPOs) of member countries
- Cooperation and harmonization
- Regional standards on Phytosanitary Regulation and Plant Protection Products
- Technical meetings of experts
- International conferences
- Sharing information and expertise through networks
- Dissemination of information on plant health

## PM 3 Phytosanitary Procedures standards

#### EPPO PM 3 Standards

- EPPO Panel on Phytosanitary Inspections
- Standards for: inspection of consignments, inspection of places of production and area-wide surveillance.
- Standards describe methods for performing inspections of commodities moving in trade, or surveys for quarantine pests.
- Provide guidance on risk-based inspection and sampling for the detection of pests of concern for the EPPO region.
- Target audience: National Plant Protection Organizations (NPPOs)



#### Examples of PM 3 Standards Generic standards

 PM 3/72 (2): Elements common to inspection of places of production, area-wide surveillance, inspection of consignments and lot identification

#### Specific standards

- PM 3/76 (2) Trees of Malus, Pyrus, Cydonia and Prunus spp. inspection of places of production
- PM 3/77 (1) Vegetable plants for planting under protected conditions inspection of places of production
- PM 3/78 (2) Consignment inspection of seed and grain of cereals
- PM 3/79 (1) Consignment inspection for Anoplophora chinensis and Anoplophora glabripennis
- PM 3/80 (2) Consignment inspection of seed of Solanum lycopersicum
- PM 3/81 (3) Inspection of consignments for Xylella fastidiosa
- PM 3/82 (3) Inspection of places of production for *Xylella fastidiosa*
- PM 3/90 (1) Inspection of citrus fruit consignments
- PM 3/92 (1) Consignment inspection of fresh fruit and vegetables for fruit flies

#### **Specific Risk-based information**

- All EPPO inspection standards provide information on defining a lot (a number of units of a single commodity, identifiable by its homogeneity of composition, origin etc., forming part of a consignment (FAO, 2019).
- ISPM 23 Guidelines for inspection and ISPM 31 Methodologies for sampling of consignments should be followed.
- EPPO inspection standards highlight specific factors to consider when targeting inspections (e.g., most susceptible cultivars, origin, producers).
- Higher sample size for plants for planting compared to fruit, vegetables or cut flowers

### PM 3/81 Inspection of Consignments for Xylella fastidiosa

- EPPO standards provide **examples** of how many units to sample within a lot, based on ISPM 31 (it is up to the NPPO to set the sample size).
- 448 plants from a lot of 10,000 plants would be sampled to provide 99% confidence of detecting evident symptoms in 1 % of plants (ISPM 31).
- The confidence level should increase for consignments arriving from countries where the pest is known to occur (the objective would be to detect an infection level of 0.1 % or more with a confidence level of at least 99%).

#### PM 3 Standards under development

- Inspection Standard on soil attached to plants
- Inspection of place of production Citrus plants for planting
- Inspection for invasive alien plants at borders
- Inspection of passenger luggage at points of entry

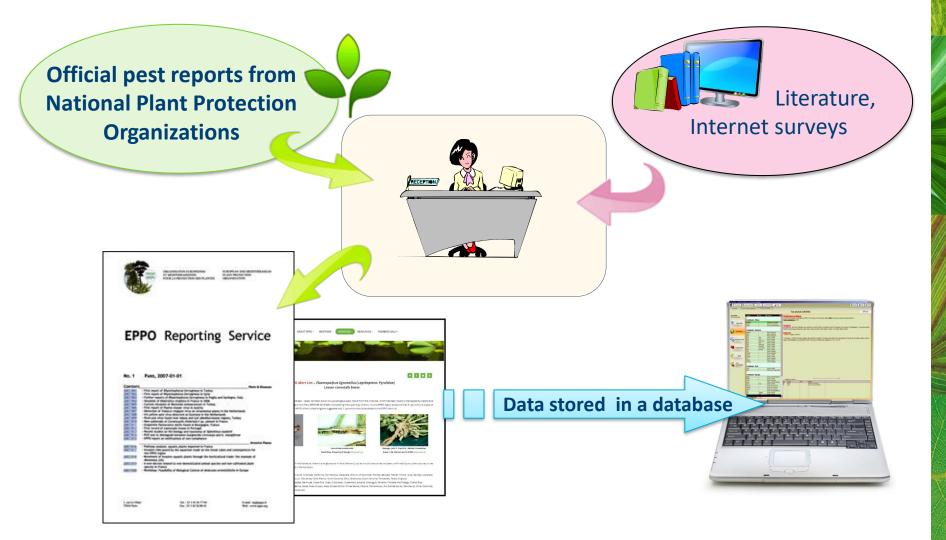






# Horizon scanning and early warning

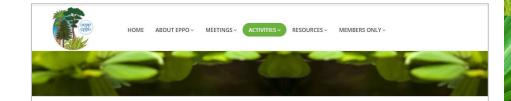
#### **EPPO collects and shares information**



### **EPPO Alert List**



- Initiated in 1999
- Provides early warning
- Suggests possible candidates for Pest Risk Analysis



#### EPPO Alert List – Elasmopalpus lignosellus (Lepidoptera: Pyralidae) Lesser cornstalk borer

Essmopalpus lignosellus (Lepidoptera: Pyraildae – lesser cornstaik borer) is a polyphagous pest, native from the Americas, which has been recently intercepted by Ireland and the United Kingdom on Imports of saparagus from Peru (EPPO RS 2019/225). Considering that a pattway of entry into the EPPO region exists and that *E. lignosellus* usind be added to the EPPO Alert List.





Larva inside a maize stalk David Riley, University of Georgia, Bugwood.org

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Damage - John C. French Sr., Retired, Universities: Auburn, GA, Clemson and U of MO, Bugwood.org

Mark Dreiling, Bugwood.org

E. lignosellus occurs in the Americas only. In the literature, there is a single record in Asia (Vietnam), but as this old record has not been confirmed by any other sources, it has been considered doubtful and not included in the list below.

EPPO region: Absent.

North America: Mexico, USA (Alabama, Arizona, Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Illinois, Iowa, Kansas, Louislana, Maryland, Massachusetts, Mississippi, Missouri, New Jersey, New Mexico, North Carolina, Ohio, Okahoma, South Carolina, Tennessee, Texas, Virginia). Central America and the Caribbeam-Bisrbados, Bermuda, Gota Rice, Outae, El Salvador, Guatemala, Jamaica, Nicargua, Panama, Trinidad and Tobago, Puerto Rico.

South America: Argentina, Bolivia, Brazil (Bahi, Colas, Mato Grosso, Mato Grosso do Sul, Minas Gerais, Parana, Pernambuco, Rio Grande do Sul, Sao Paulo), Chile, Colombia, French Guiana, Paraguay, Peru, Uruguay, Venezuela.

#### https://www.eppo.int/ACTIVITIES/plant\_quarantine/alert\_list

### Pest risk analysis and EPPO A1 and A2 Lists

#### Pest risk analysis

EPPO conducts PRAs and pathway analyses and develops pest lists to inform member countries.

Activities assist NPPOs in the region to determine where to deploy plant health resources



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

20-26052

Pest Risk Analysis for Tomato brown rugose fruit virus (Tobamovirus)



brovsky – EPPO Global Database (EPPO Code: TOBREV) – Fruit symptoms, Mexico (201

September 2020

EPPO 21 Boulevard Richard Lenoir 75011 Paris www.eppo.int ho@eopo.int

The risk assessment follows EPPO standard PM 5/5(1) Decision-Support Scheme for an Express Pest Risk Analysis (available at http://archives.eppo.in/EPPOStandards/pra.htm), as recommended by the Panel on Phytosanitary Measures. Pest risk management (detailed in ANNEX 1 and ANNEX 2) was conducted according to the EPPO Decision-support scheme for quarantine pests PM 5/3(5). The risk assessment uses the terminology defined in ISPM 5 *Glossary of Phytosanitary Terms* (available at https://www.inne.inflinder.phn)

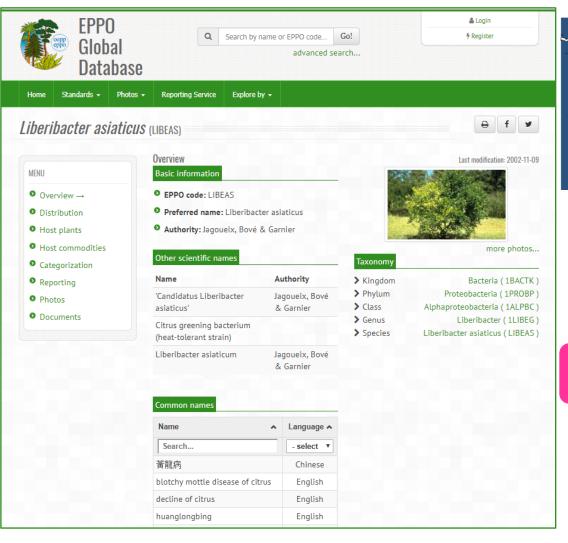
Cite this document as: EPPO (2020) Pest risk analysis for tomato brown rugose fruit virus. EPPO, Paris. Available at https://igd.eppo.in/ttaxon/TOBREV/documents

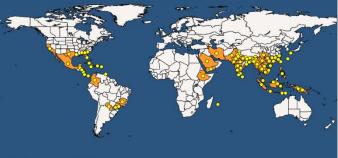
#### **EPPO A1 and A2 Lists**

- EPPO recommends its member countries to regulate pests listed as EPPO A1 (pests are absent from the EPPO region) and EPPO A2 (pests locally present in the EPPO region)
- EPPO PM 3 Standards include a detailed appendix highlighting A1 and A2 pests relevant to the crop.
- This appendix details information on symptoms, identification and sampling.

## EPPO Global database and information services

#### **EPPO Global database**





Liberibacter asiaticus (LIBEAS)

#### https://gd.eppo.int

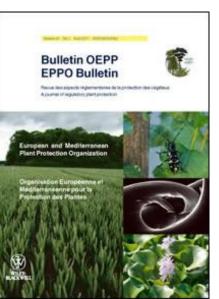
#### **EPPO Global database**

- Provides pest-specific information produced or collected by EPPO.
- Detailed information is available on 1 800 pest species.
- Includes geographic distribution useful in targeting inspection on high-risk origins, host plants, host commodities or in targeting inspection of relevant commodities.
- Summary notifications of non-compliance are available as pest detections from EPPO member countries are published in the EPPO Reporting Service. This helps inspectors to target import inspections.

#### **EPPO information services**



www.eppo.int









### EPPO succeeds only through collaboration between experts in the region and beyond ...



