94TH ADVISORY FORUM

BUDAPEST, 04-05 December 2024

EFSA Art. 36 Grants on Research to reduce Risk Assessment Uncertainties in Plant Health

Giuseppe Stancanelli, EFSA PLANTS

EUROPEAN FOOD SAFETY AUTHORITY

DATA NEEDS FOR PLANT HEALTH RISK ASSESSMENT

Google

Google Scholar

ELSEVIER Scopus®

WEB OF SCIENCE

Food and Agriculture Organization of the United Nations

eurostat

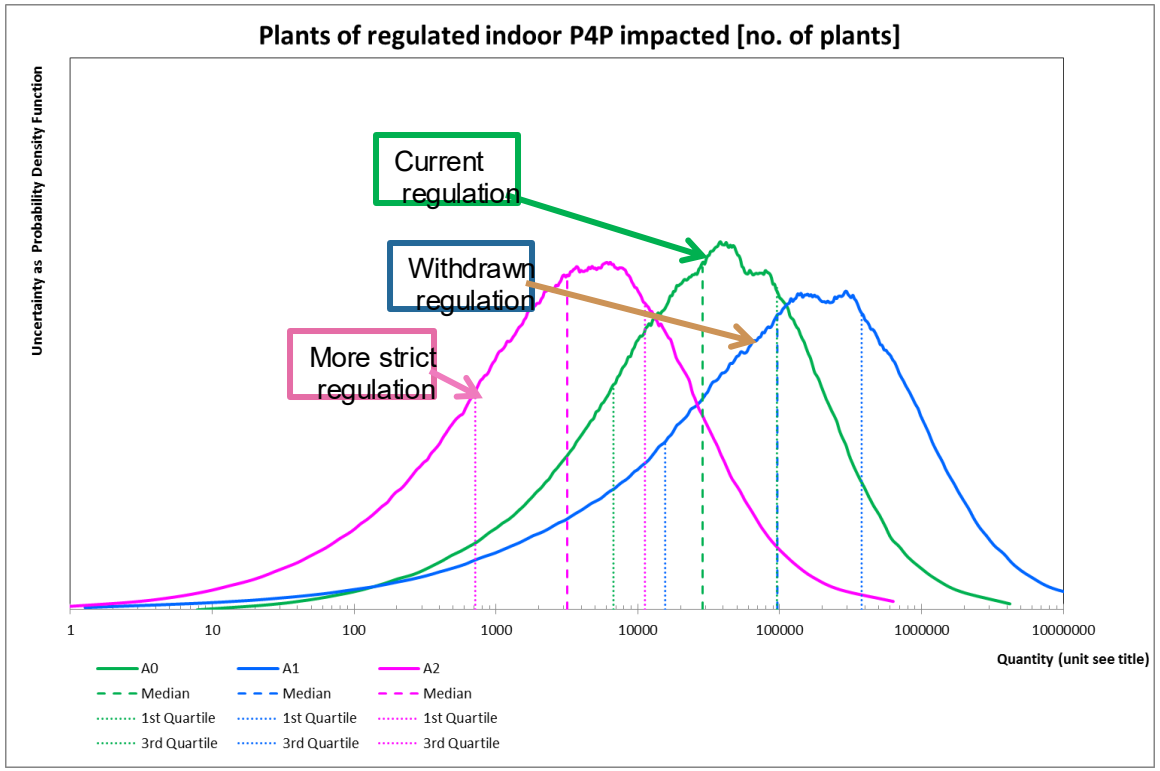
Interceptions data: TRACES & Europhyt

Data from experts

1. Distribution
2. Host-Range
3. Pest Biology
4. Impact
5. Spread
6. Control Methods

Meta-analysis

DEALING WITH UNCERTAINTIES AND KNOWLEDGE GAPS



Quantifying Uncertainty

Funding Research

2013: FIRST OUTBREAK OF *XYLELLA FASTIDIOSA* IN THE EU

efsa
European Food Safety Authority
EFSA Journal 2013;11(11):3468

STATEMENT OF EFSA

Statement of EFSA on host plants, entry and spread pathways and risk reduction options for *Xylella fastidiosa* Wells et al.[1]

European Food Safety Authority[2, 3]

European Food Safety Authority (EFSA), Parma, Italy

efsa
European Food Safety Authority
EFSA Journal 2015;13(1):3989

SCIENTIFIC OPINION

Scientific Opinion on the risk to plant health posed by *Xylella fastidiosa* in the EU territory, with the identification and evaluation of risk reduction options[1]

EFSA Panel on Plant Health (PLH)[2,3]

European Food Safety Authority (EFSA), Parma, Italy

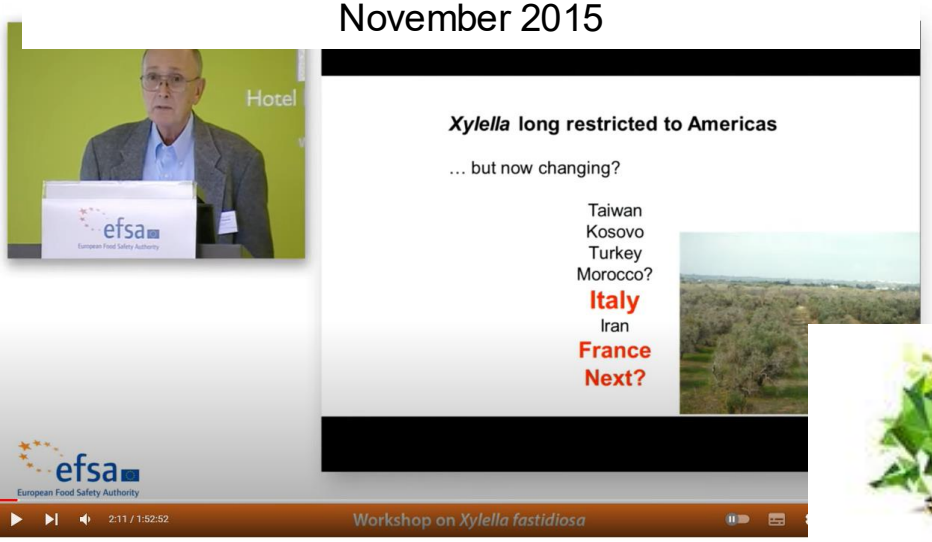
ABSTRACT

The EFSA Panel on Plant Health conducted a pest risk assessment and an evaluation of risk reduction options for *Xylella fastidiosa*. *X. fastidiosa* has been detected in olive in the EU with a distribution restricted to the region of Apulia in Italy and is under official control. *X. fastidiosa* has a very broad host range, including many common

recommendation for research on *Xylella*

EFSA CONFERENCES ORGANISED IN COOPERATION WITH RESEARCH

X.fastidiosa Knowledge Gaps Workshop, Brussels, November 2015



1st , Palma de Mallorca, November 2017

European conference on Xylella fastidiosa | 2017

2nd, Ajaccio, October 2019

3rd, ONLINE (Covid-19 times) , April 2021

4th, Lyon, August 2023

NEXT: 5th European Conference on Xylella fastidiosa, Italy, 2026

2015 EFSA ART. 36 GRANT ON *XYLELLA* HOST PLANTS

Figure 3: Plant used for the artificial inoculations. A. Self-rooted plants of Cabernet Sauvingon; B. Self-rooted plants of *Polygala myrtifolia*; C. Grafted plants of olive cv. Cellina di Nardò; D. Olive seedlings; E. Seedlings of Duncan grapefruit; F. C35 seedlings. *Continue*

- **Reproduction of Olive Decline Syndrom symptoms in artificial infection and satisfaction of Koch postulate**
- **Olive variety Leccino found tolerant to *Xylella***

EXTERNAL SCIENTIFIC REPORT

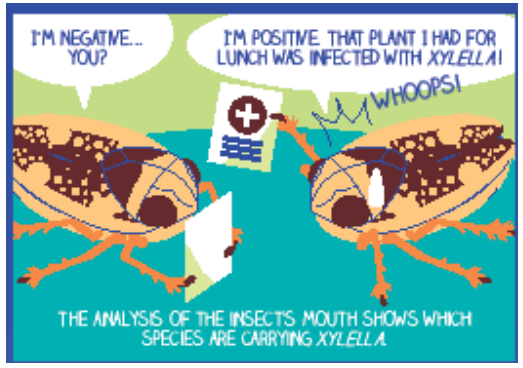
APPROVED:22 March 2016 PUBLISHED: 29 March 2016

Pilot project on *Xylella fastidiosa* to reduce risk assessment uncertainties

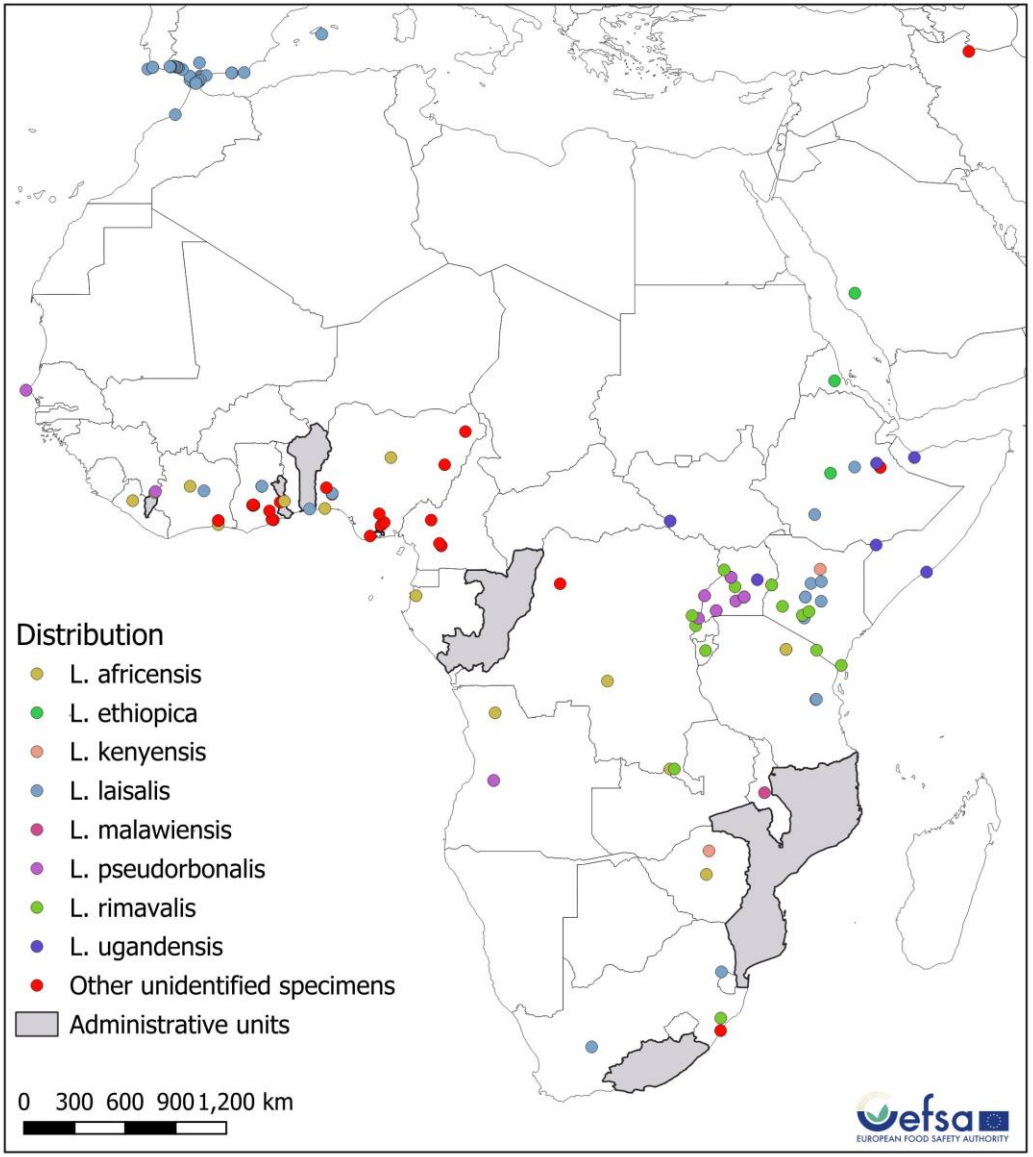
Institute for Sustainable Plant Protection, National Research Council of Italy, CNR

EFSA ART. 36 GRANTS ON POTENTIAL VECTORS OF *XYLELLA* IN THE EU

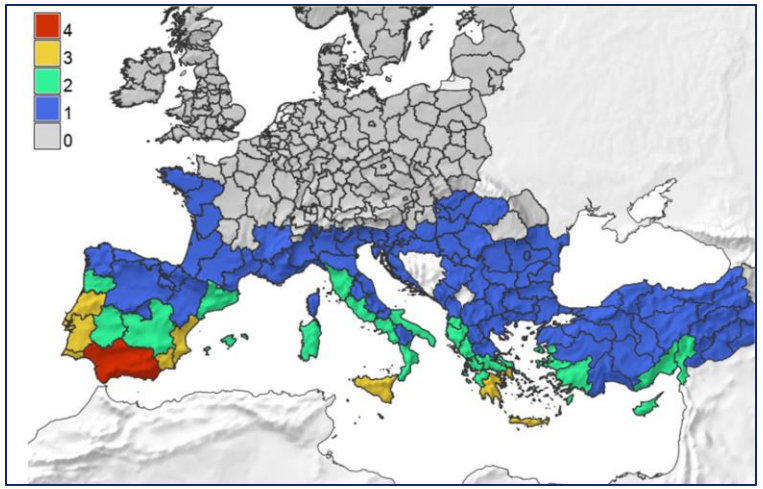
- 2019 Collection of data and information on biology and control of vectors of *Xylella fastidiosa* (Italy)
- 2021 Collection of data and information in Balearic Islands on biology of vectors and potential vectors of *Xylella fastidiosa* (GP/EFSA/ALPHA/017/01) (Spain)
- ONGOING: Xvectores-vectors and potential vectors in Portugal (project started in 2021, to be finalized in 2025)
- ONGOING: Investigating the biology and capacity to transmit *Xylella fastidiosa* of the American sharpshooter *Draeculacephala robinsoni*, recently introduced into the EU - BIODROB - started in January 2024



UPCOMING ART. 36 CALLS ON RESEARCH ON AFRICAN MOTHS (Q1 2025)



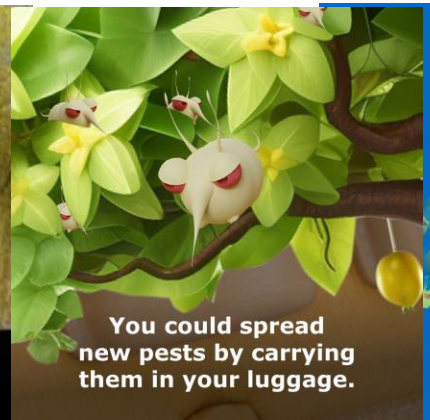
1. Taxonomy and biology of *Leucinodes* species grass moths from Africa
2. Biology and thermal requirements of False Codling Moth *Thaumatotibia leucotreta* in Eastern Africa



J.H. Hofmeyr, Citrus Research International, Bugwood.org

CONCLUSIONS

- EFSA produces Evidence Based and Open Access RA for Plant Health
- Plant Health RA is based on Scientific Knowledge developed by research
- Scientific Knowledge on exotic plant pests is often lacking
- Identification of RA Uncertainties helps identifying research priorities
- EFSA Art. 36 organisations are key actors in plant health applied research, PLEASE ENCOURAGE PARTICIPATION TO EFSA ART.36 GRANTS!
- Preparedness to New Plant Pests Invasions is key for protecting plant health



ART. 36 INSTITUTIONS COLLABORATING IN PLANT HEALTH RESEARCH GRANTS

THANK YOU FOR YOUR ATTENTION

plants@efsa.europa.eu

STAY CONNECTED

SUBSCRIBE TO
efsa.europa.eu/en/news/newsletters
efsa.europa.eu/en/rss
Careers.efsa.europa.eu – job alerts

LISTEN TO OUR PODCAST
Science on the Menu –Spotify, Apple Podcast and YouTube

FOLLOW US ON TWITTER
@efsa_eu @methods_efsa
@plants_efsa @animals_efsa

FOLLOW US ON LINKEDIN
Linkedin.com/company/efsa

FOLLOW US ON INSTAGRAM
@one_healthenv_eu

CONTACT US
efsa.europe.eu/en/contact/askefsa

EUROPEAN FOOD SAFETY AUTHORITY