EPPO data on pests: what we collect, what you can do with it



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IPRRG, 2024-09-14

EPPO data on pests

- » EPPO Codes
- » Identity (scientific name, synonyms, common names)
- » Distribution (at country level + states for larger countries)
- » Host plants
- » Categorization
- » Associated documents (Standards, PRA, datasheet)

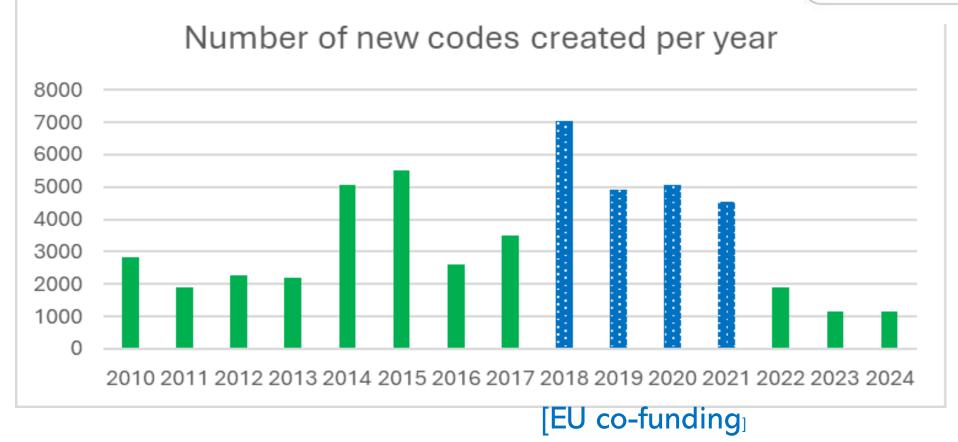




EPPO Codes

Over 120 000 codes (incl. 97700 species)

BEMITA Bemisia tabaci
SOLTU Solanum tuberosum
PPV000 Plum pox virus





EPPO Information project (2020-2024)



- Update the contents of the EPPO datasheets on regulated pests
- Transform static documents into dynamic datasheets displayed in the EPPO Global Database





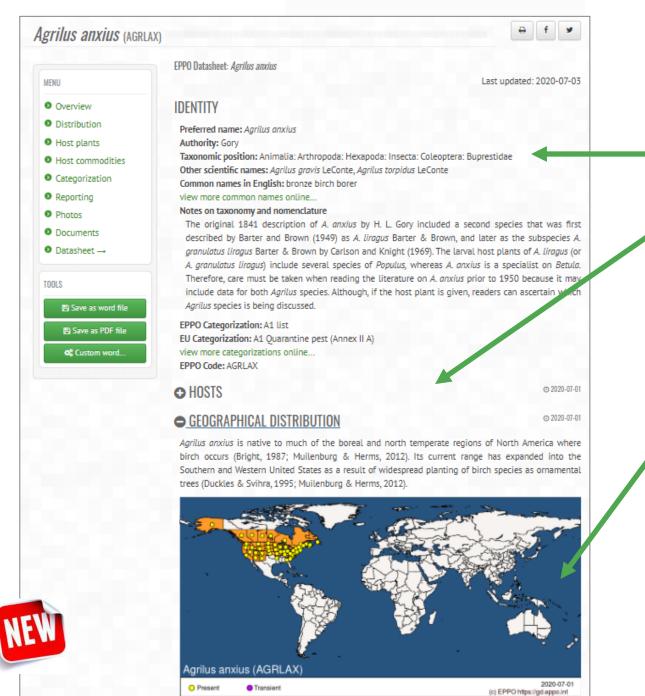


EPPO Information project

• 4 year-project co-financed by the EU (Grant agreement SANTE/2020/G1/EPPO/SI2.823766)

- 321 datasheets (incl. 82 new)
- >120 experts involved
- EPPO team (7 reviewers, 1 consultant, 1 English editor, 3 administrative support)

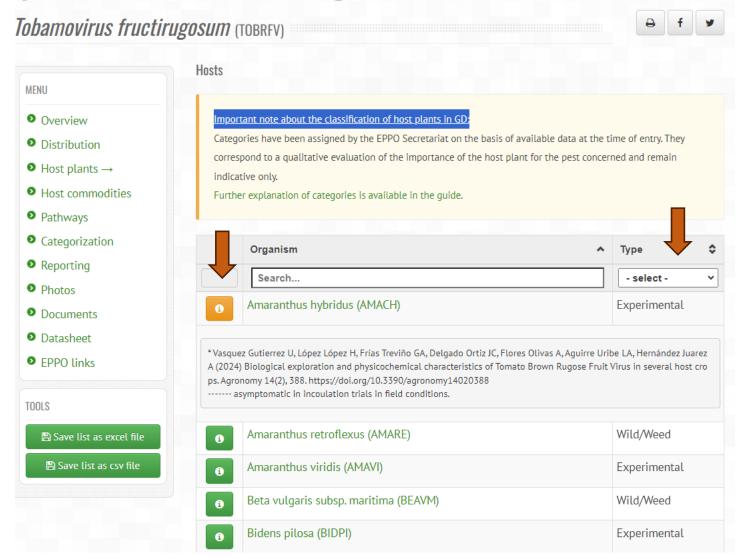




Dynamic parts: automatically generated by GD

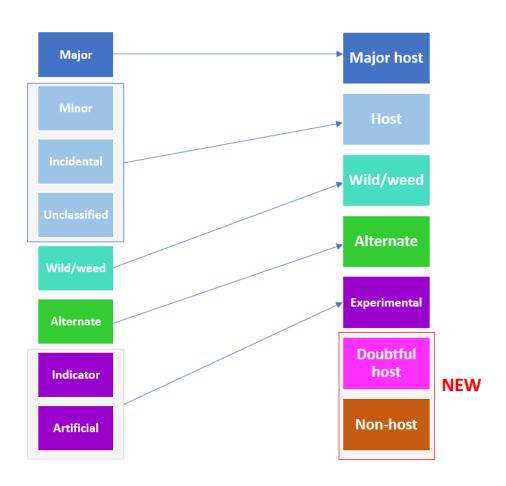
https://gd.eppo.int

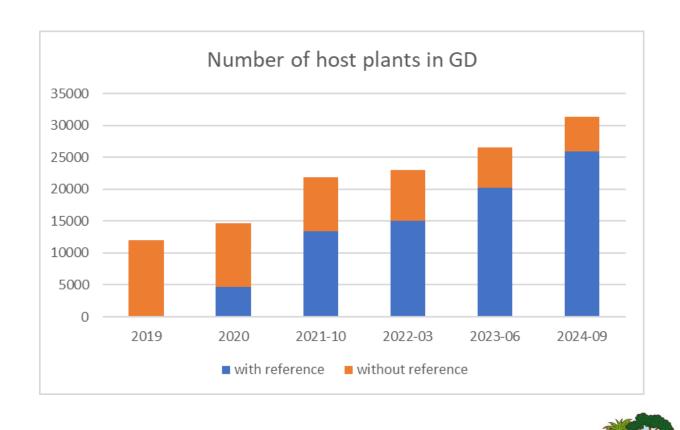
Host plants: adding references





Host plants





Simplifying categories

More exhaustive

Geographical distributions in GD



1918 pests are 'documented' in GD (corresponding to more than 31000 records)

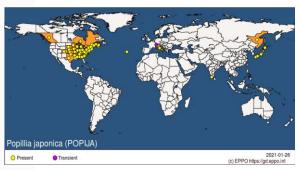


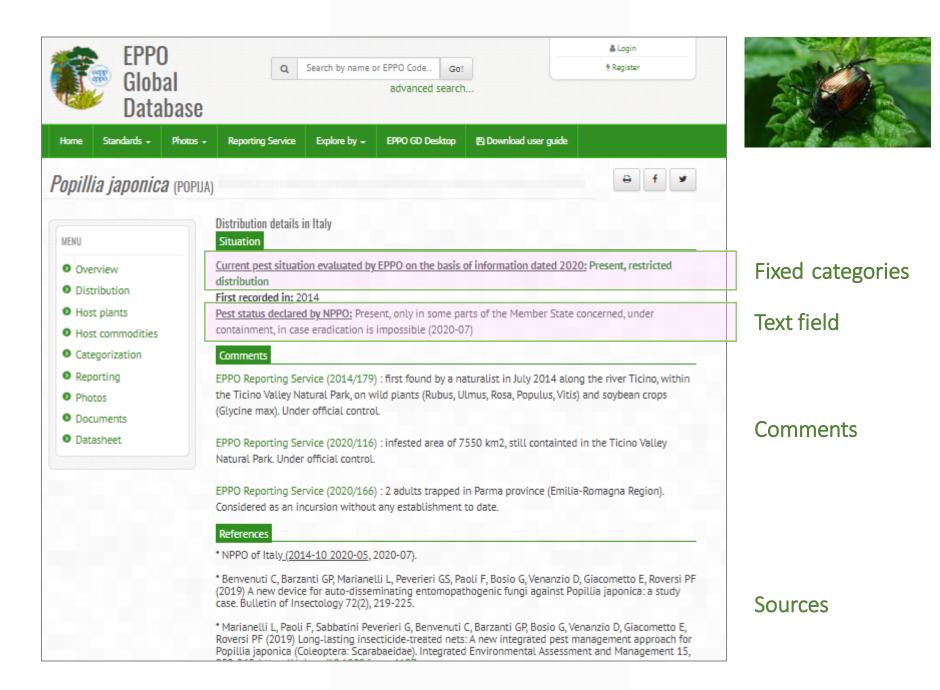
Fixed categories

In order to ensure consistency within the database, a small number of presence/absence categories are being used. The distribution categories are as follows:

- Present, no details
- Present, widespread
- Present, restricted distribution
- Present, few occurrences
- Transient, under eradication
- Absent, no pest record
- Absent, pest no longer present
- Absent, pest eradicated
- Absent, confirmed by survey
- Absent, intercepted only
- Absent, invalid record
- Absent, unreliable record

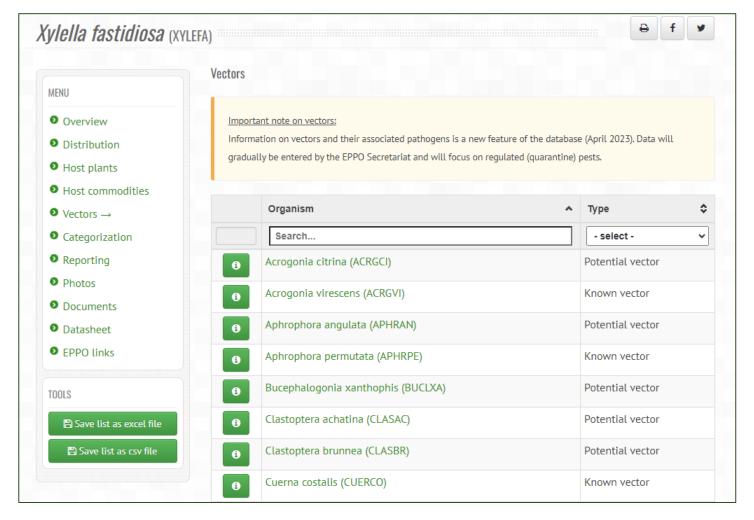






Vectors in GD

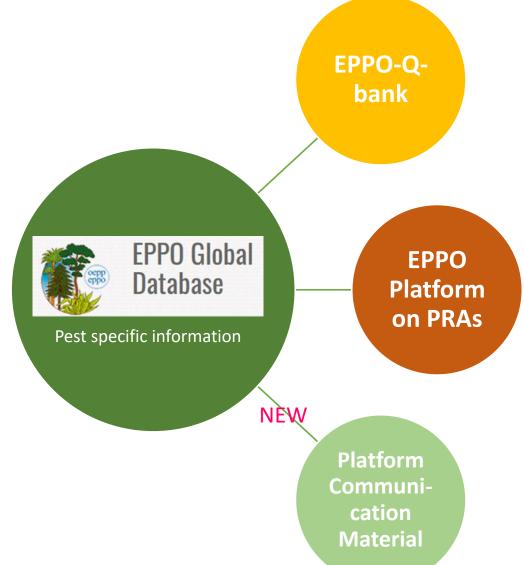
- Lists of vectors for <u>regulated</u> plant pathogens
- Bibliographic sources
- Work continues





Links to other EPPO databases

- Increased visibility of all databases
- Good feedback from users





Links



MENU

- Overview
- Distribution
- Host plants
- Host commodities
- Categorization
- Reporting
- Photos
- Documents
- Datasheet
- EPPO links →

Links to other EPPO databases

Important note about this page:

Below are external links to pest-specific information included in other EPPO databases. For the moment, links have been established with EPPO-Q-Bank (specimens and sequences for diagnosis), the EPPO PRA Platform (Pest Risk Analysis documents), the EPPO Platform on Communication Material.

Found in EPPO PRA Platform

EPPO documents

EPPO PRA for Agrilus planipennis [EPPO, 2013-09-30]

non-EPPO documents

- ☑ Agrilus planipennis—Pest Report and Datasheet to support ranking of EU candidate priority pests [EU, 2019-06-03]
- Commodity risk assessment of ash logs from the US treated with sulfuryl fluoride to prevent the entry of the emerald ash borer Agrilus planipennis [EU, 2023-01-26]
- Summary of the Express Pest Risk Analysis for Agrilus planipennis Fairmaire, 1888 [Poland, 2017-10-13]

Found in EPPO Q-Bank

☑ Nb specimens: 8 - Nb sequences: 8

Found in EPPO Platform on Communication Material

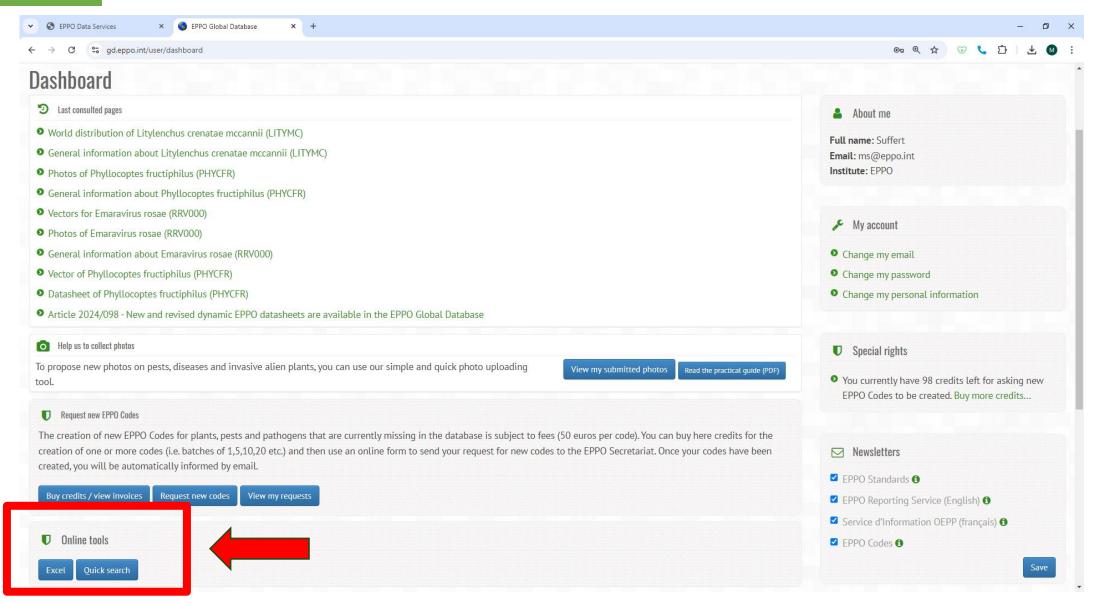
☑ Link to communication campaigns referring to Agrilus planipennis



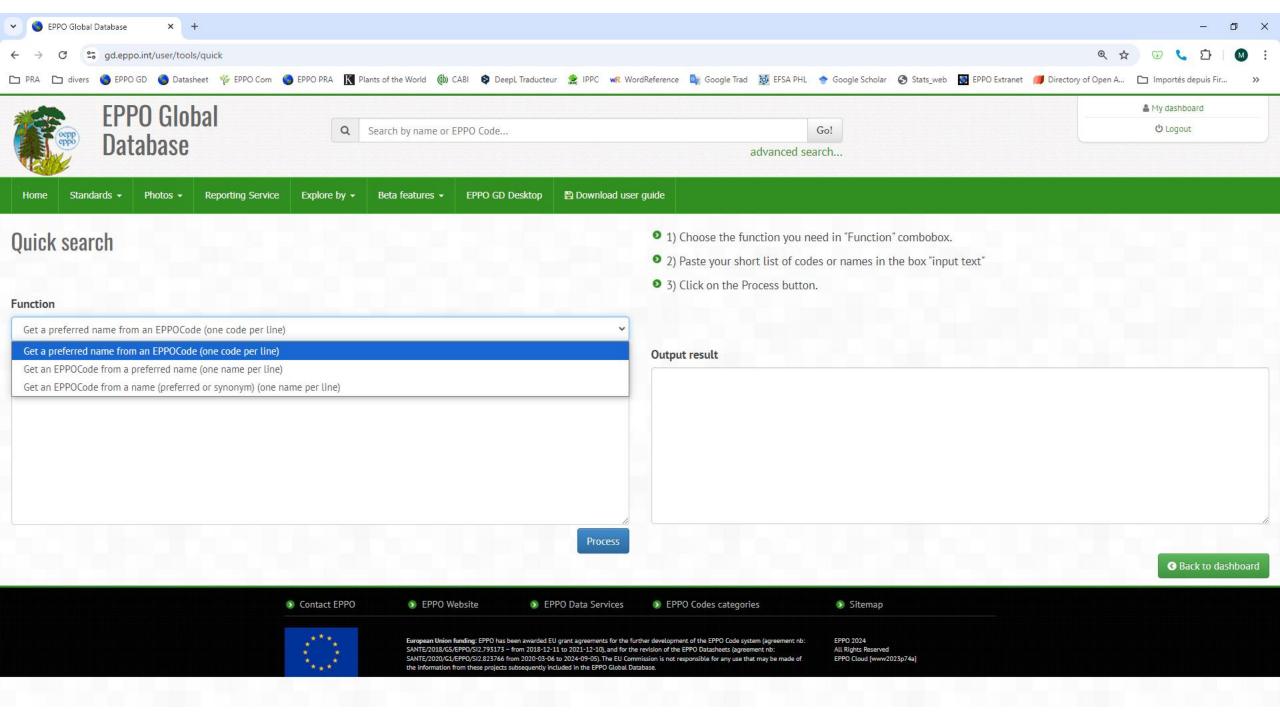
Using EPPO data



Simple tools on your dashboard







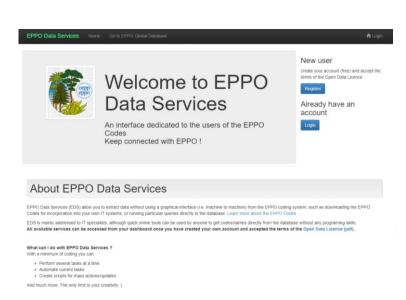
Work on Excel files

- EPPO codes → preferred names
- preferred names → EPPO codes
- preferred names or synonyms → EPPO codes
- EPPO codes → main category
- EPPO codes → taxonomy
- EPPO codes → hosts
- EPPO codes → categorization



Data services https://data.eppo.int/

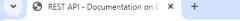
- Need to create an account and accept the terms of the Open Data Licence
- Extract data without using a graphical interface (i.e. machine to machine) from the EPPO coding system, such as
 - downloading the EPPO Codes for incorporation into your own IT systems, or
 - running particular queries directly in the database.
- With a minimum of coding you can:
 - Perform several tasks at a time
 - Automate current tasks
 - Create scripts for mass actions/updates



Download EPPO codes

Format name	File type	Documentation
Bayer flat file	TXT	<u>read more</u>
XML Datapacket	XML	<u>read more</u>
XML Access	XML	<u>read more</u>
XML Full	XML	<u>read more</u>
SQLite database	SQLite3	in preparation
SQL queries	TXT	in preparation
LogShipping method	ZIP	<u>read more</u>





cata.eppo.int/documentation/rest#collapse1













axon	
GET /taxon/{EPPOCODE}	Get basic informations about {EPPOCODE}
GET /taxon/{EPPOCODE}/names	Get all names about {EPPOCODE}
GET /taxon/{EPPOCODE}/taxonomy	Get taxonomy about {EPPOCODE}
GET /taxon/{EPPOCODE}/categorization	Get categorization about {EPPOCODE}
GET /taxon/{EPPOCODE}/hosts	Get hosts about {EPPOCODE}
GET /taxon/{EPPOCODE}/pests	Get pests about {EPPOCODE}
GET /taxon/{EPPOCODE}/kingdom	Get the {EPPOCODE} kingdom

In Progress: pest distribution





Thanks to



- Anne-Sophie Roy (Information manager)
- Rob Tanner (Scientific officer invasive alien plants)
- Fabienne Grousset (consultant for EPPO)

Damien Griessinger (IT officer) <u>dg@eppo.int</u>







