# **EPPO CODES**

Building blocks for information systems

#### 5<sup>th</sup> EPPO Codes Users Webinar

2021-06-22





### What are the EPPO Codes?

- 5-6 letter computer codes: unique identifiers for plants and pests that are of interest in agriculture and plant protection
- Codes mainly cover taxa ('taxonomic codes') but also other entities such as crop groups ('non-taxonomic codes')
- Initially developed by BAYER and managed by EPPO since 1996
- EPPO Codes are maintained by the EPPO Secretariat



### For cultivated and wild plant species (including weeds)

SOL

5 letters = 3 (genus) + 2 (species)

Solanum tuberosum: SOLTU

An unspecified species of *Solanum*: SOLSS

Genus Solanum: 1SOLG

**Mnemonic element:** whenever possible, codes are constructed on the basis of the current scientific name







For pests and pathogens:

6 letters = 4 (genus) + 2 (species)





The species Bemisia tabaci: BEMITA

An unspecified species of the genus Bemisia: BEMISP

Genus Bemisia: 1BEMIG

Special case of viruses: codes are constructed with the acronyms Tomato yellow leaf curl virus (TYLCV) = TYLCV0

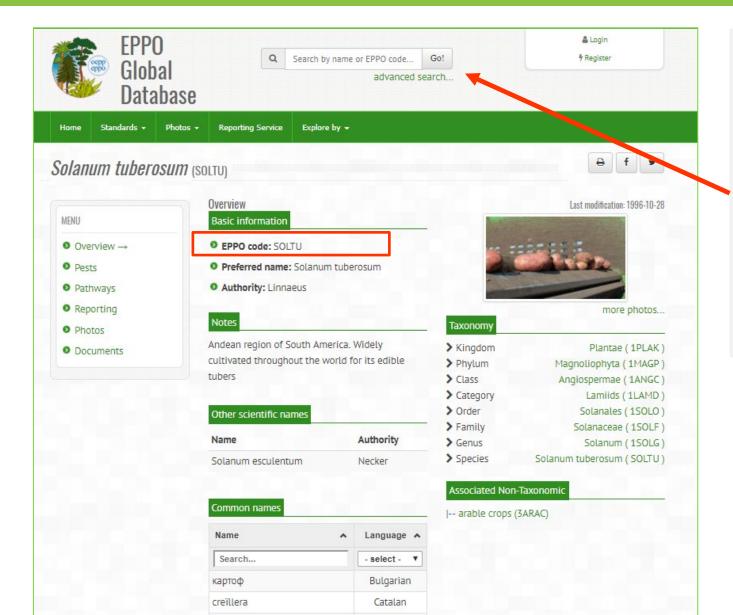




### A code once given may not be deleted or used again for other purposes

### **EPPO Global Database**

**Repository for all EPPO codes: https://gd.eppo.int** 



Simple and advanced search tools are available in the database

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## Webservices for batch queries

# **Contents of the coding system**

### For each plant/pest:

- EPPO code
- Preferred scientific name
- Synonyms (or other scientific names)
- Common names in different languages
- Elements of taxonomy

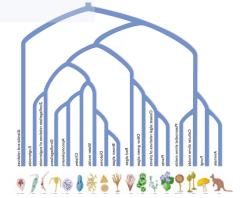


## Simplifed taxonomic tree

Kingdom Phylum Subphylum Class Order Suborder Family Genus Species Animalia Arthropoda Hexapoda Insecta Hemiptera Sternorrhyncha Aleyrodidae Bemisia

1 ANIMK 1 ARTHP 1 HEXAQ 1 INSEC 1 HEMIO 1 STERR 1 ALEYF 1 BEMIG BEMITA

#### Harmonized coding Parent / child relationships



### **EPPO Codes: several subgroups**

### Taxonomic codes

Taxonomic groups: plants, animals, microorganisms [SPT][SIT][SFT]

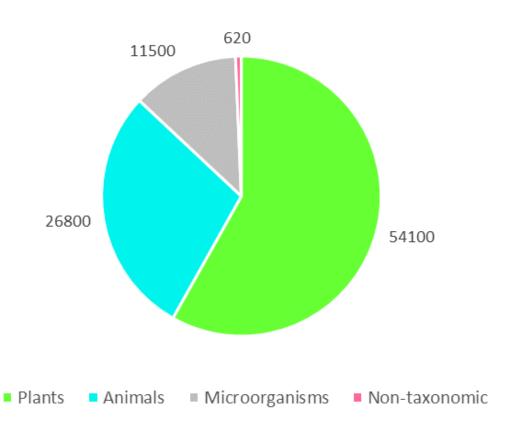
**Species:** plants, animals, microorganisms [PFL][GAI][GAF]

Deactivated codes [pbe][sfn][sin][sis][spb] [sen][sfs][spn]

Non-taxonomic codes

Non-taxonomic 'entities' [NTX]

## A few numbers (June 2021)



### > 90 400 <u>species</u>

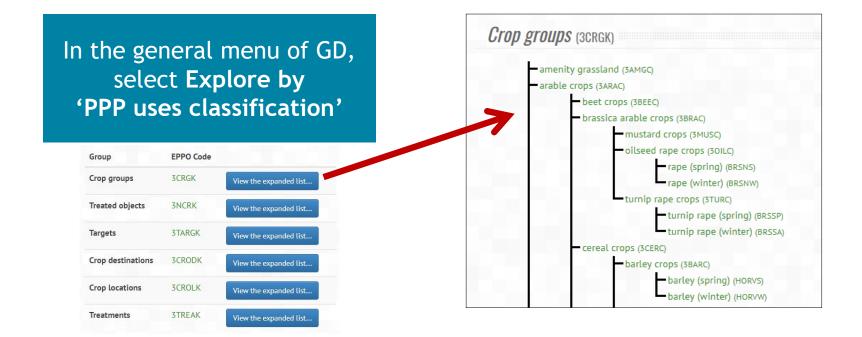
important for agriculture and plant protection

Until 2018, 2 000 new codes were created every year

Since 2018, > 4 000 new codes are created (EU funded project)

### Non-taxonomic Codes for plant protection products (PPP)

- Non-taxonomic codes follow different rules EPPO Standard PP 1/248 (new revision in 2021)
- Set of Codes developed by the EPPO Expert Working Group on PPP data harmonization
- Harmonized definitions of the declared uses of PPP facilitate communication among countries and mutual recognition of PPP authorizations

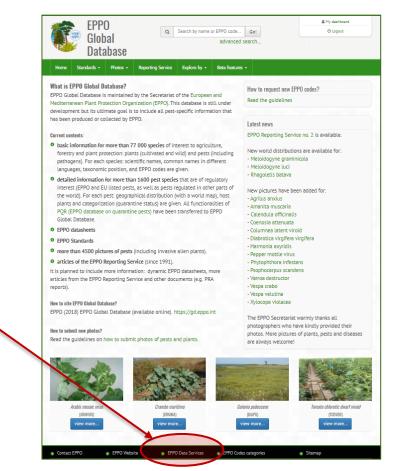


### How to obtain core files?

- The whole set of EPPO codes and associated names is freely available under the terms of an open data licence.
- Web services are being developed to facilitate downloading of EPPO codes.

#### **Downloads – EPPO Data Services**

The open data licence, computer files (in different formats) and explanations are available from a dedicated platform: https://data.eppo.int



### How to stay informed?

# Subscribe to the EPPO Codes Monthly Newsletter (free)

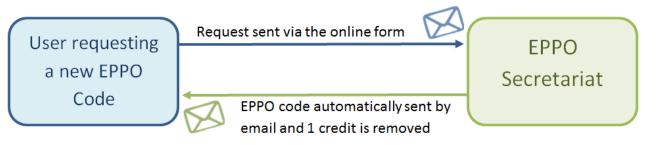
- Create your free account in the EPPO Global Database
- o Login
- In your dashboard, choose the EPPO Codes Newsletter

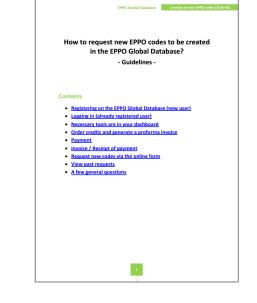
List of newly created codes List of deactivated codes

A : Objet : Date :	asr@eppo.int	SPD Codes Monthly Newsletter: 2019-11 9 11:24:32
This free main mo month co of tracing of deactiv from the codes, su synonym these mo download	newsletter is addresse diffications that have be wered is indicated in th gnajor changes. The N vated codes with their in database. Other modifi ch as changes in prefet s, common names are diffications can be trace dim EPPO Codes files	to all EPPO Codes users. Its objective is to summarize the ene made to the database during a monthly period (the set itile) and provide users with an easy and transparent way Vewsletter contains a list of newly created codes and a list replacement codes. These lists are automatically generated ications concerning data that is related to already existing red scientific names, authors of scientific names, not shown to keep the Newsletter easy to read. However, ed in the core database files (e.g. for users who are via the EPPO Data Services).
Summ		t the EPPO Codes can be found on the <u>EPPO website</u> .
New coo Deactiva New c Microor	ted 32	
Code	Pref name	
ATCYSP	Anthracocystis sp.	
CPORSP	Chrysoporthe sp.	
NPSDSP	Neopseudocercosporell	a sp.
PEROCI	Peronospora ciceris	
Animal		
Code	Pref name	
ALNMSP	Allantonema sp.	
ANCTSP	Ancylostoma sp.	
ANGCSP	Anguillicola sp.	
ARELEL	Araeolaimus elegans	
ARELSP	Araeolaimus sp.	

## How to get NEW EPPO Codes created?

- Additional service subject to fees (50 euros per code) – Free for EPPO members (NPPOs)
- All necessary online forms have been created in EPPO Global Database
- Guidance is available in EPPO Global Database





EPPO codes can be used in information systems to:

- Avoid typing errors during data entry and ensure consistency of data over time
- Provide an efficient way of dealing with taxonomic changes and different languages in databases
- Ensure consistent searches within databases
- Facilitate data exchange between databases



# Thank you for your attention





#### Change of preferred scientific name:

Gnorimoschema absoluta = Tuta absoluta

The code GNORAB remains the same



#### Newly described species:

Phytophthora pinifolia



A new code **PHYTPF** is created



A code once given may not be deleted or used again for other purposes

In some instances, often resulting from successive taxonomic changes (e.g. synonymization), codes have to be deactivated (NOT deleted) to avoid duplication of codes

1 biological entity = 1 unique code

