



# Knowledge Junction & information sharing

Collecting and Sharing Data on  
**bee health**  
Towards a European Bee  
**Partnership**

BRUSSELS, 26 JUNE '17

Jane Richardson





## OVERVIEW

- Data availability & access
- Data collation & management
- Data communication

# KNOWLEDGE JUNCTION

The screenshot shows a web browser window displaying the Knowledge Junction search results page. The browser's address bar shows the URL: <https://zenodo.org/communities/efsa-kj/search?page=1&size=20&q=bees&sort=-mostrecent>. The page title is "Knowledge Junction".

On the left side, there are three filter panels:

- Access Right:** Open (6)
- File Type:** Pdf (3), Xlsx (2), Csv (1), Txt (1), Xml (1), Xsd (1)
- Keywords:** Apidae (3), Honey (3), American (2), Apis (2), Assessment (2), Bee (2)

The main content area displays search results. At the top, it says "Found 6 results." with a pagination control showing "1" and a "Sort by:" dropdown menu set to "Most recent" and "desc.".

The first result is:

- June 27, 2014 (v1)** | Software | Open Access | View
- Application for the estimation of the residue intake rate for certain bee species under given conditions (SHVAL tool)**
- Zancanaro, Gabriele; Cortiñas Abrahamantes, José; Boesten, Jos; Szentes, Csaba;
- The risk to bees via consumption of nectar and pollen in the hive is assessed using parallel tiered approaches for the effect and exposure assessments both for spray applications, seed treatment and granule applications. The exposure assessment is based on tiered approaches described by flow charts
- Uploaded on January 20, 2017

The second result is:

- April 16, 2016 (v1)** | Dataset | Open Access | View
- Honey bee Seasonal mortality 2012-2014 - Epilobee analysis**
- JACQUES Antoine; LAURENT Marion; RIBIERE-CHABERT Magali; SAUSSAC Mathilde; BOUGEARD Stéphanie; HENDRIKX Pascal; CHAUZAT Marie-Pierre;
- EPILOBEE was the first active epidemiological surveillance program implemented in 17 EU Member States, over 2 consecutive years (from autumn 2012 to summer 2014), following a harmonised protocol based on the EU reference laboratory guidelines. EFSA requested a statistical analysis on the EPILOBEE d
- Uploaded on February 7, 2017

The third result is:

- July 23, 2012 (v1)** | Dataset | Open Access | View
- Pesticide ecotoxicology Tier 1 endpoints database**
- Dierkes, Esther; Hül, Marie-Christine; Montanelli, Sandra; Gross, Valérie;

# ECOTOXICOLOGY DATA

July 23, 2012

Dataset Open Access

## Pesticide ecotoxicology Tier 1 endpoints database

Pierobon, Enrica; Neri, Maria Chiara; Marroncelli, Sandro; Croce, Valeria

The database was developed under the contract CT/EFSA/PPR/2010/03 with the purpose to provide a compilation in IUCLID 5.2 of ecotoxicological endpoints of the active substances and plant protection products (PPPs). It was developed to support the revision of guidance documents on aquatic and terrestrial ecotoxicology. The database for all Tier 1 studies where higher tier studies we also available in the dossier submitted under Directive 91/414/EEC for aquatic organisms, bees, non target arthropods, non target plants and soil organisms. The variables include report metadata, active substance, species tested, description of the experimental conditions and endpoint values (e.g. LC50, NOEC, EC50, ER50) according to OECD harmonised templates for Effects on biotic systems. The database includes data extraction for 5745 ecotoxicological endpoint and 1625 risk assessment endpoints.

The Format XML export from IUCLID 5.2, with author names removed. XSD is included. The study was outsourced after a procurement procedure.

Preview

Files (18.2 MB)

Name	Size	
DB_ecotoxicological_properties_active_substances_plant_protection_products_EFSA_2013.xml md5:ff07199c680073010f1a3f930fb01f37	18.2 MB	<a href="#">Preview</a> <a href="#">Download</a>
IUCLIDEndpointsOutput.xsd md5:4005ded18061a5ab881e1942df503a28	4.0 kB	<a href="#">Download</a>

References

Available in

OpenAIRE

Publication date:

July 23, 2012

DOI:

[DOI 10.5281/zenodo.273472](https://doi.org/10.5281/zenodo.273472)

Keyword(s):

[Apidae](#) [aquatic organisms](#) [arthropods](#) [ecotoxicology](#)  
[endpoints](#) [lethal concentration 50](#) [pesticides](#) [plants](#)  
[soil organisms](#) [toxicity testing](#)

Subject(s):

[Apidae](#) [arthropods](#) [aquatic organisms](#)  
[ecotoxicology](#) [lethal concentration 50](#)  
[pesticides](#) [plants](#) [soil organisms](#)  
[toxicity testing](#)

Related identifiers:

Cited by:

[10.2903/sp.efsa.2012.EN-326](#)

Communities:

[Knowledge Junction](#)

License (for files):

[Creative Commons Attribution-NoDerivatives](#)

Share



Accessible

Findable

Reusable



## FAIR PRINCIPLES

- **Findable:** each dataset will have a DOI to ensure persistence and appropriate metadata (using widely accepted international standards).
- **Accessible:** available for download through an open repository or available upon request for sensitive information.
- **Interoperable:** integrating and connecting various sources of information in a flexible way including the application of domain terminologies.
- **Reusable:** the conditions for the reuse of the object will be specified by the creator/owner in terms of attribution, sharing, commercial usage and modification.

# EFSA STANDARD SAMPLE DESCRIPTION

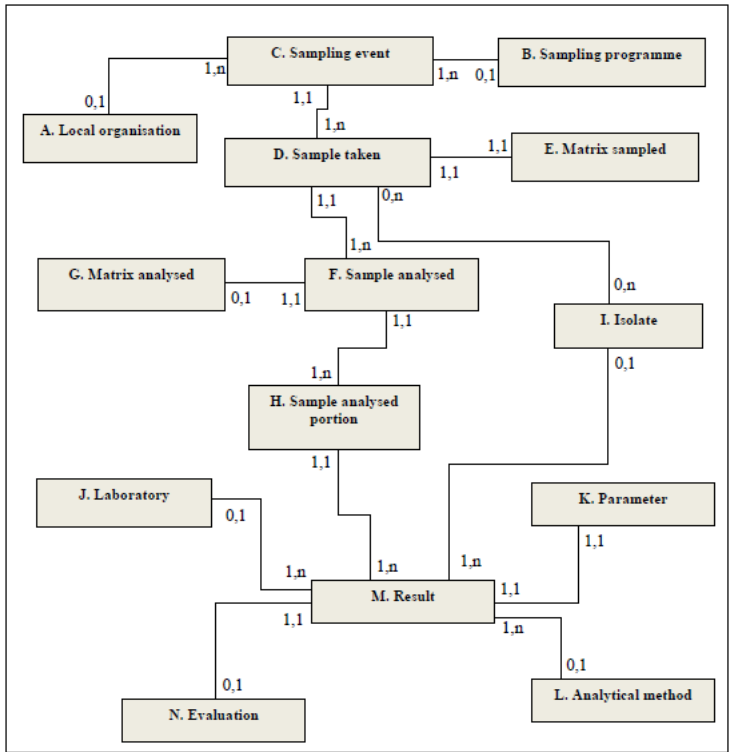
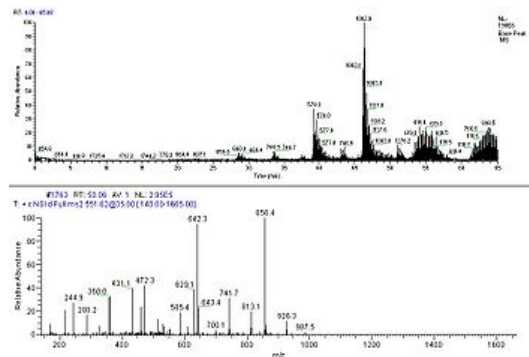
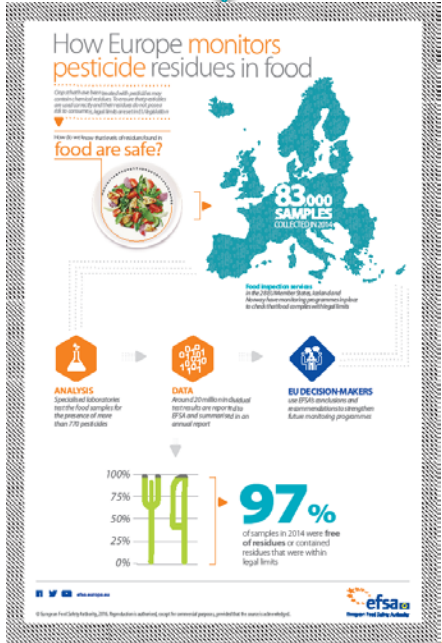
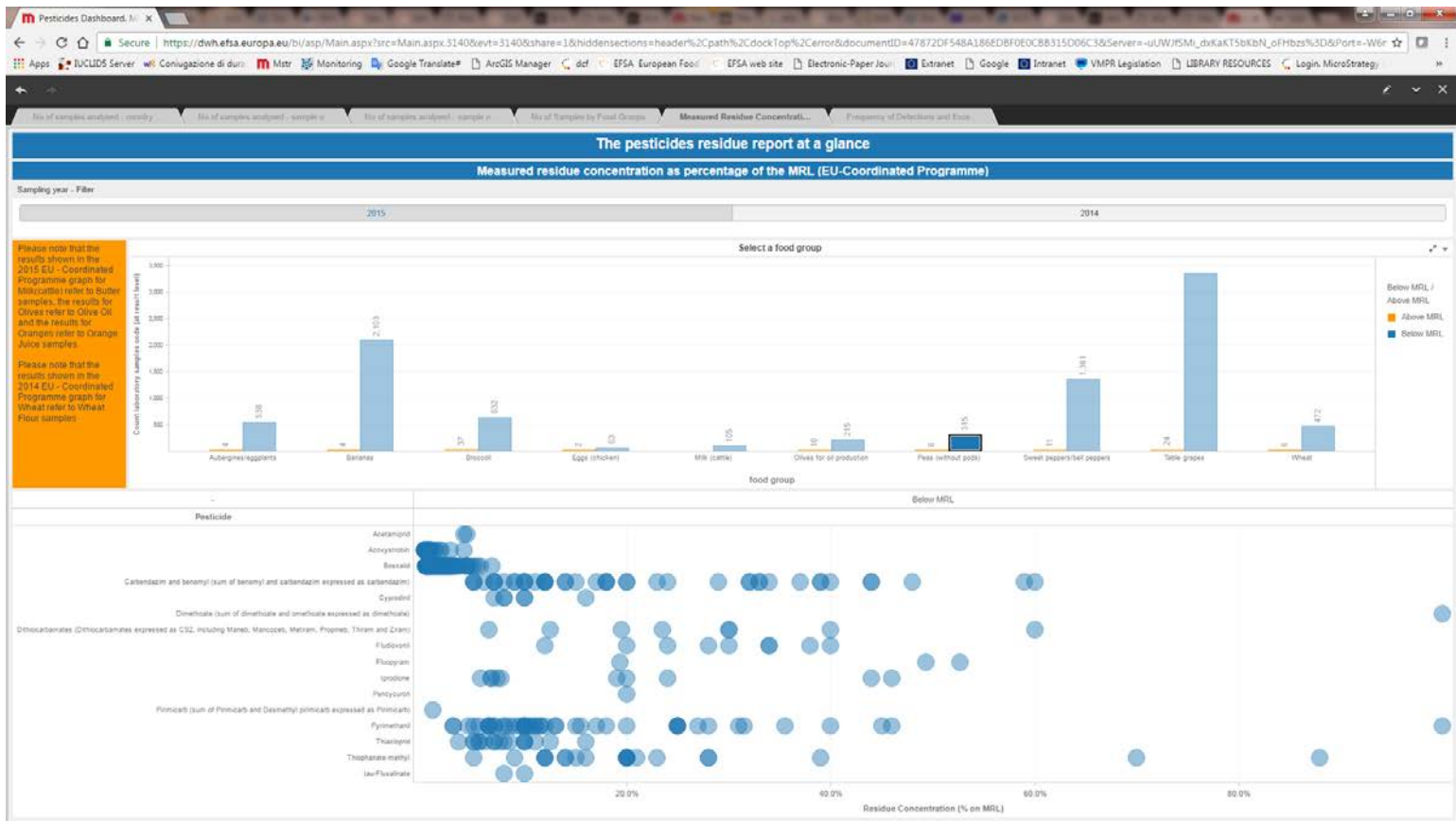


Figure 3: Structure of the main Standard Description entities



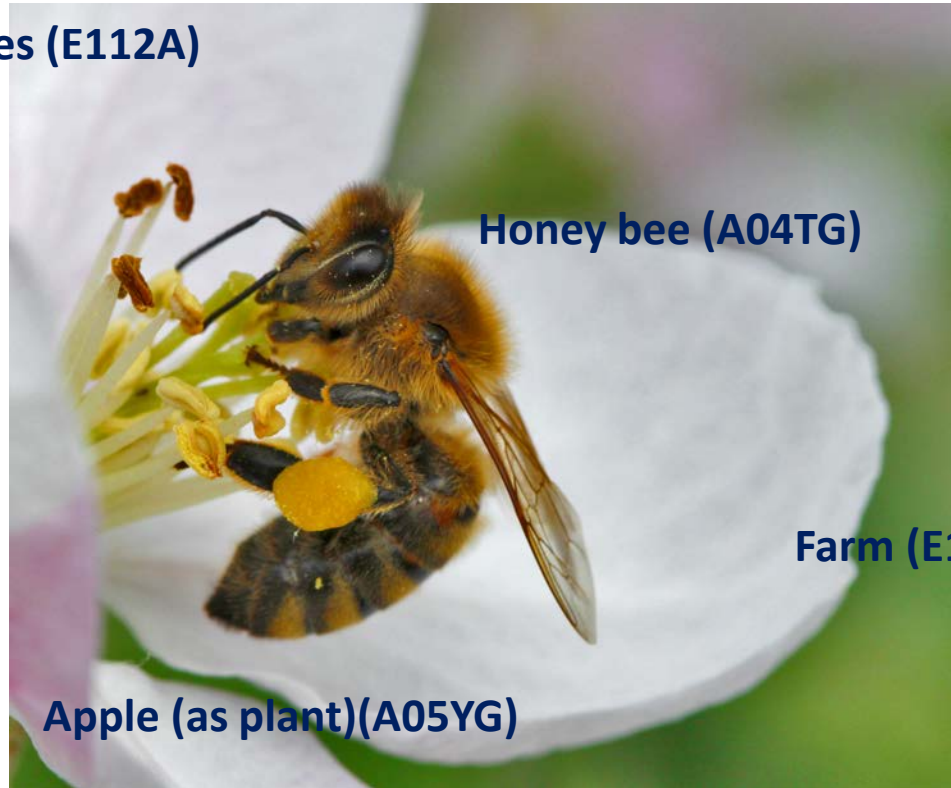
# PESTICIDE RESIDUE MONITORING RESULTS





# TERMINOLOGY

**Bee hives (E112A)**



**Honey bee (A04TG)**

**Farm (E101A)**

**Apple (as plant)(A05YG)**



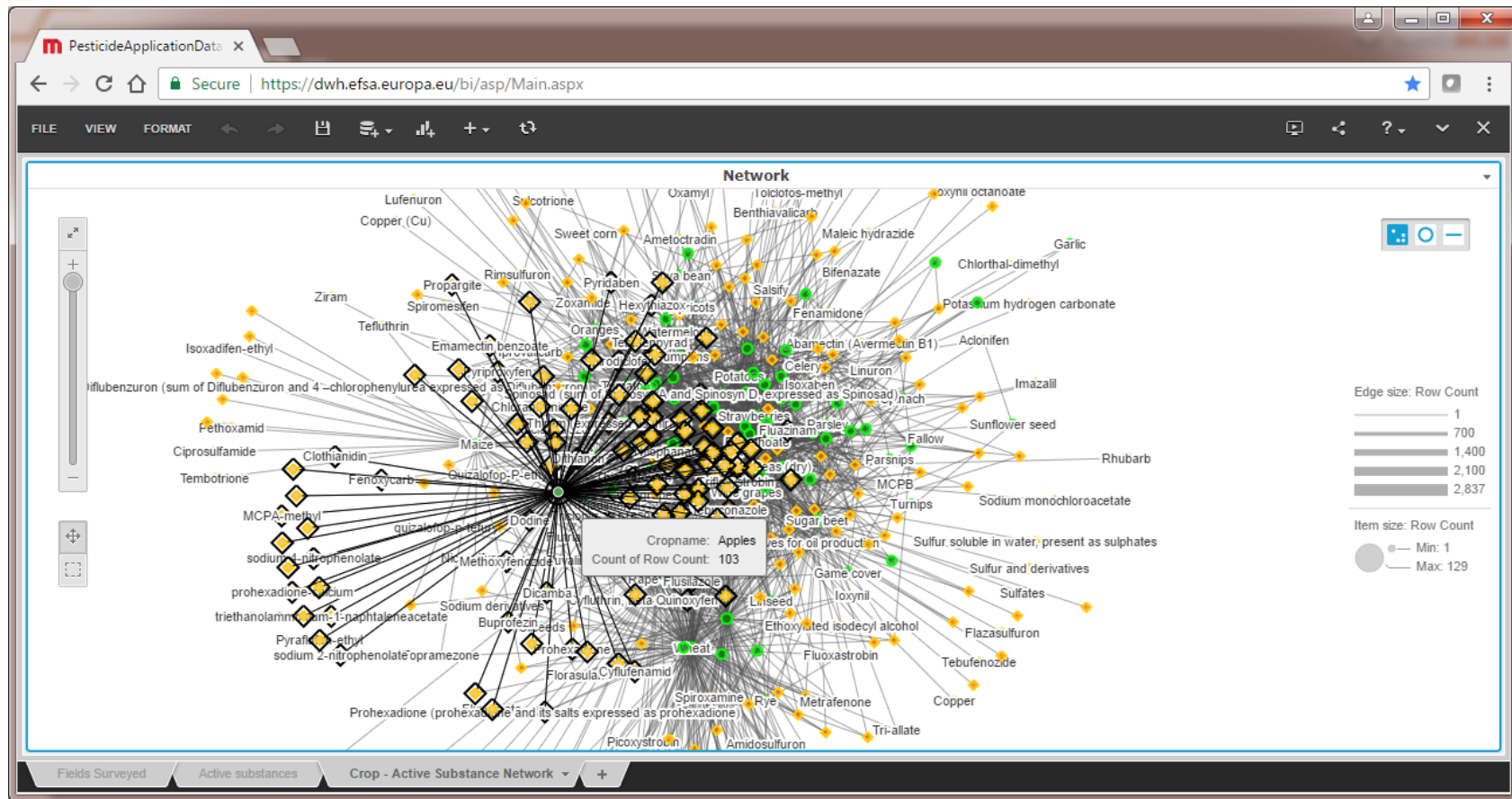


# NOT JUST FOR CHEMICALS

Standard Sample Description is being used for

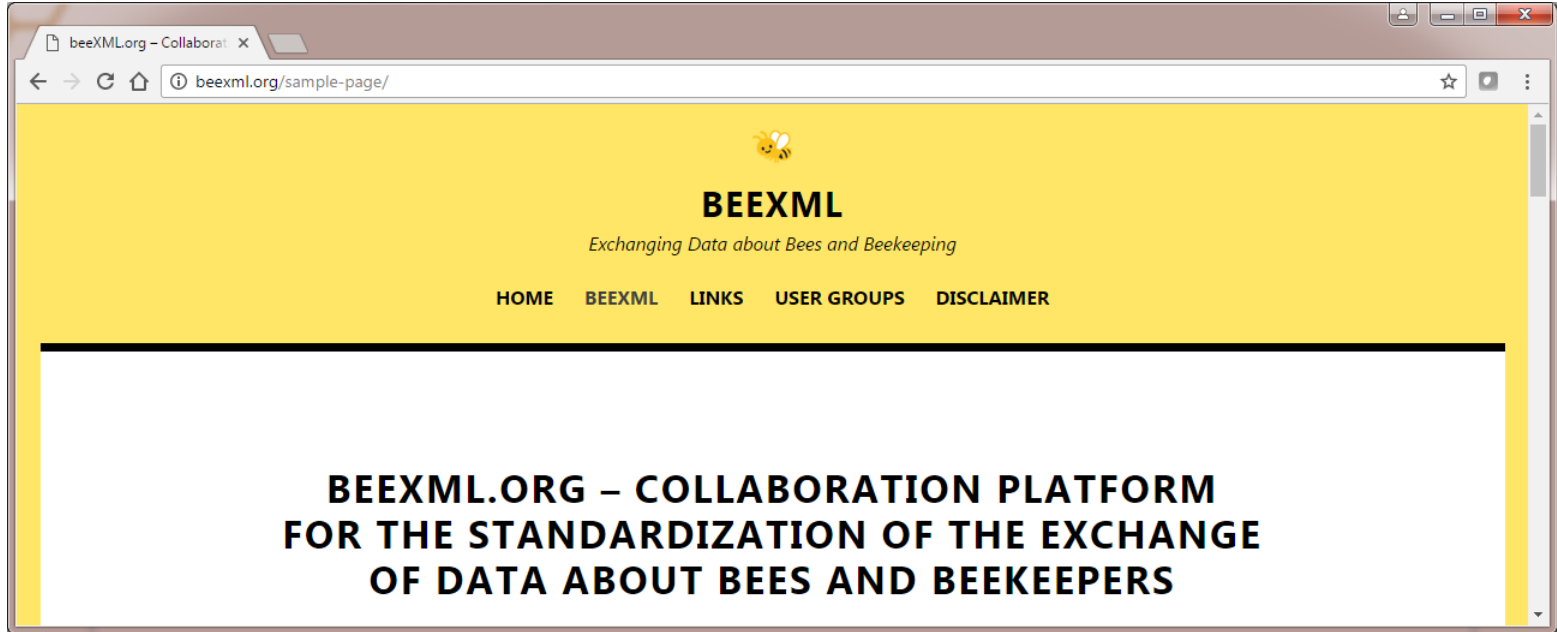
- Quantification of norovirus genomes in oysters
- Observation of animal based welfare measures in small scale dairy establishments
- Anti microbial resistance monitoring

# PILOT PESTICIDE USAGE SURVEYS





# XML STANDARDS



Many standards  $\neq$  Interoperability

# COMMUNICATION

The screenshot shows a web browser window displaying a Zenodo record. The URL is <https://zenodo.org/record/252130#.WUEBe2195hE>. The page title is "Application for the estimation of the residue intake rate for certain bee species under...". The main content area is titled "Share" and features a "TOP SERVICES" section with icons for Yammer, Facebook, Twitter, Print, Pinterest, Gmail, Google+, and LinkedIn. A "LOAD MORE" button is located below these icons. On the right side, there are sections for "Subjects:", "Related identifiers:", and "Communities:". The "Communities" section lists "@efsa-eu", "@plants\_efsa", and "@methods\_efsa". The "Email" and "Email App" options are also visible. The page includes a search bar and a "Find a service" button. The bottom right corner of the page has an "AddThis" logo.

Lets talk about it!

@efsa-eu  
@plants\_efsa  
@methods\_efsa