

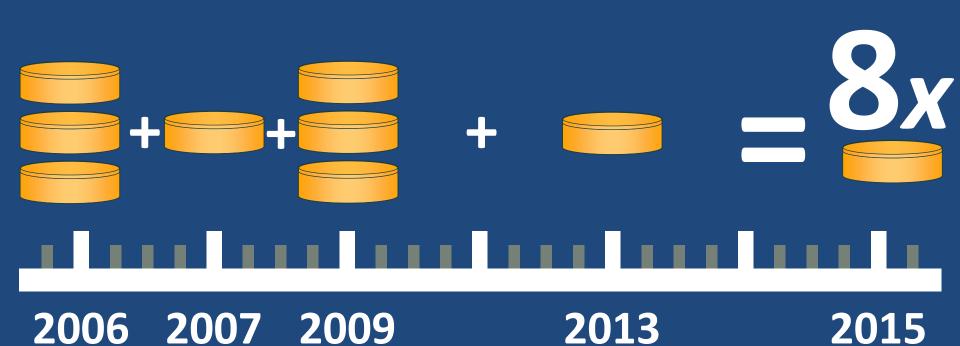
EURL DataPool

Online Tool for Estimation of Measurement Uncertainty

(joint EURL/AQC-project) (Hubert Zipper, EURL-SRM)

A Brief History of





What is the Idea behind it?

-> Convenient and efficient access to information needed for proper decision-making in pesticide residue analysis.



Outline

- Figures
- Experimental Data & Challenges
- Tool for Estimation of Measurement Uncertainty

Network of Official EU-Laboratories

Coordinated by EURLs for Pesticide Residues







980 emailaddresses

EURL Network: List of NRLs, OfLs and Emails of Contact Persons Export to Excel Collapse all Expand all Drag a column header and drop it here to group by that column T NRL-FV T NRL-CF T NRL-AO T NRL-SRM T CS-FV T CS-Ce T CS-Fe T CS-AO T CS-HLC T CS-Ho T CS-BF Zone Y Analyzing on ... Y Lab Name Lab Contact Person Department for Pesticide EU Austria Yes Yes Yes Yes Yes and Food Analytics (PLMA MA 38 - LUA - Pesticide EU Austria No No No No No Yes Yes No Yes Yes Yes Département Santé -EU Belgium No No No No No Résidus et contaminants EU Belgium LFSAL - Liège No No No No No No Yes Yes No EU Belgium FLVV - Tervuren No No No EU Belgium Fytolab - Belgium Yes No No No No Yes Yes Yes Yes EU France Fytolab - Belgium No Yes EU Fytolab - Belgium Yes Luxembourg Yes No Yes Yes Yes

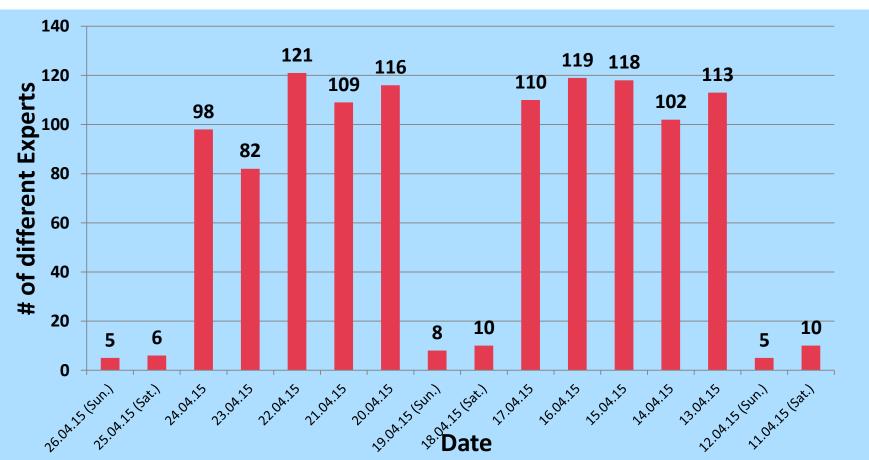
Total Number of Users

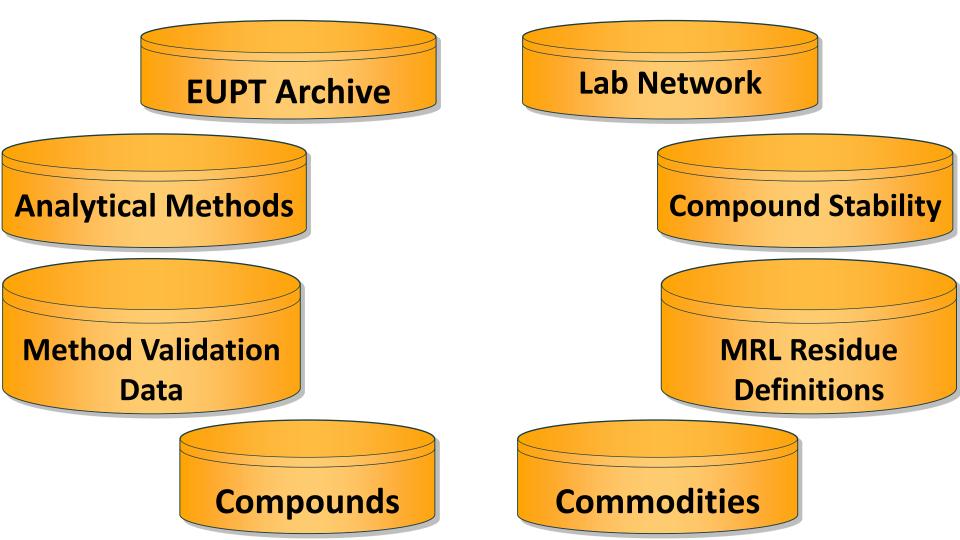


Pesticide Experts from ...



Some Usage Statistics





EUPT Archive

Lab Network

Analytical Methods

Data from Literature

Compound Stability

Method Validation
Data



MRL Residue Definitions

1410 compounds

Compounds

500 commodities

Commodities

EUPT Archive



Analytical Methods

Method Validation
Data

"Living" Data



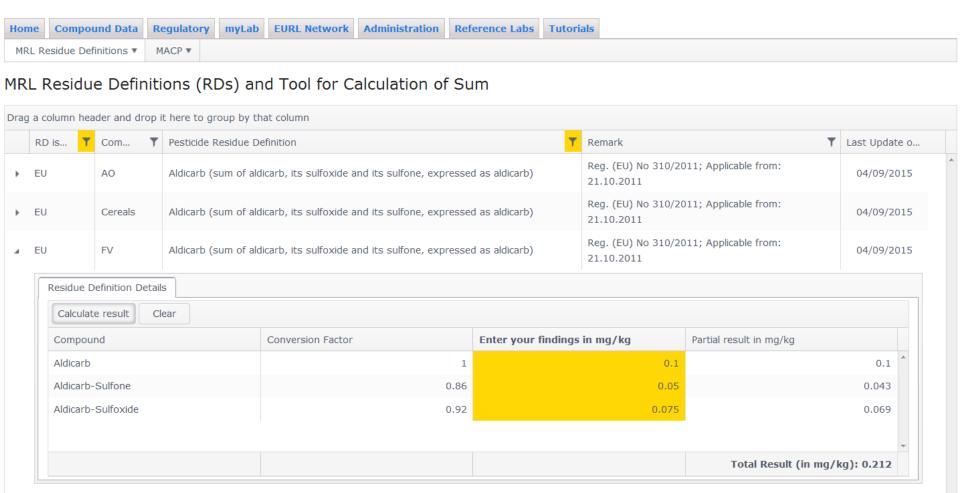
Compound Stability

EU & Codex MRL Res Def

MRL Residue Definitions

Compounds

Commodities





Lab Network

Analytical Methods

420.000 recoveries

Method Validation

Data

Experimental Data



1380 data sets

Compound Stability

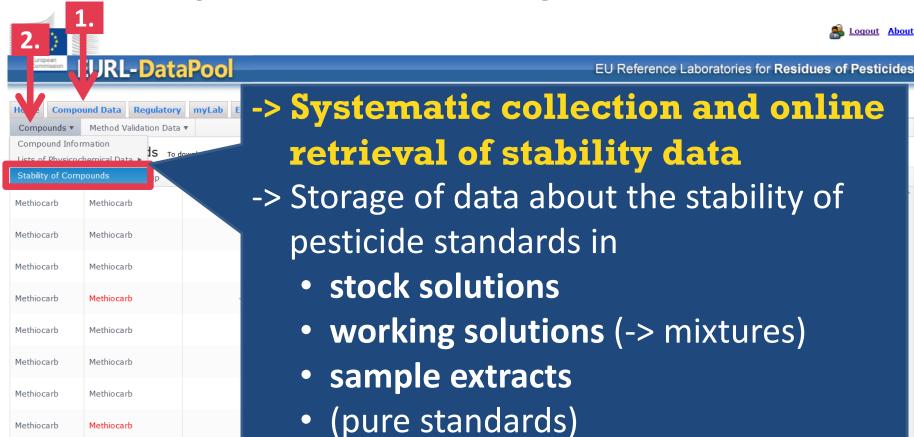
MRL Residue Definitions

e.g. MS/MS-trans.; high resolution MS data

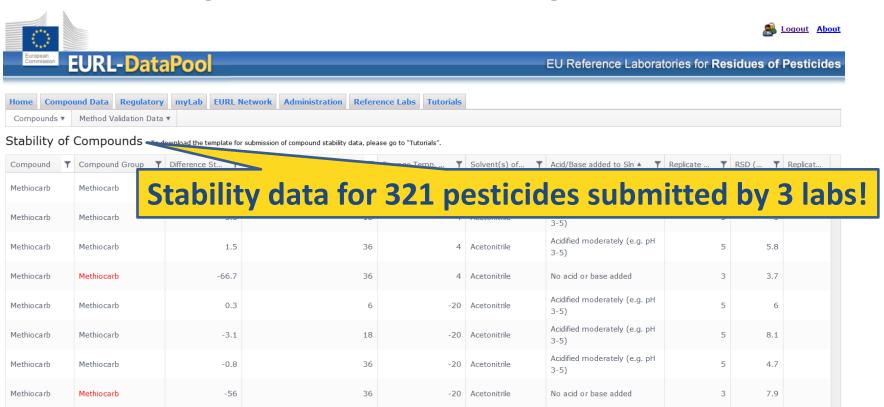
Compounds

Commodities

Compound Stability Database



Compound Stability Database

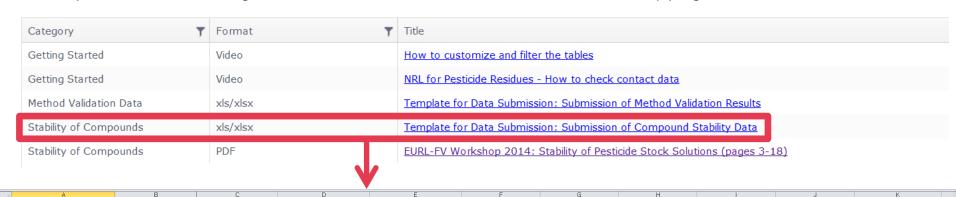


Submission of Compound Stability Data

Home Reference Labs Tutorials

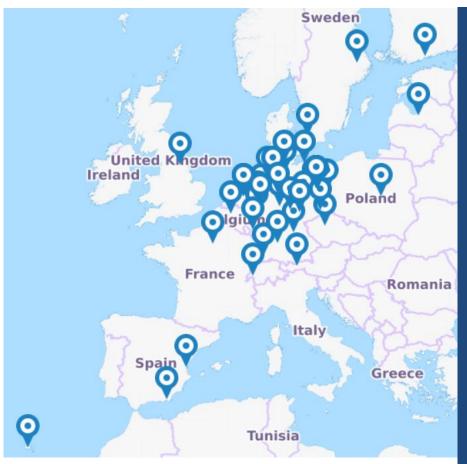
Welcome to our Tutorial Page!

Whether you are a new visitor or a registered user of our EURL DataPool-website, our Tutorial is here to help you get the most out of our database services.



1	TESTED PESTICIDES	5			PROPERTIES OF STORED SOLUTION							
2	OBLIGATORY	OBLIGATORY	OBLIGATORY	OPTIONAL	OBLIGATORY	OBLIGATORY	OBLIGATORY	OBLIGATORY	OBLIGATORY	OBLIGATORY (if matrix-extract used)	(if extraction method	OBI (if e
	Compound	Preparation Date of Stored Solution	Pesticide concentration in solution DURING STORAGE [μg/mL]	DETAILS on pesticide (e.g. employed as salt)	Pesticide stored individually or in mixture? (If in mixture, please provide an ID for pesticides in same sin)	Name of company where certified standard was purchased	Main Solvent(s) of stored sln	Water Content of stored solution	Pesticide solved in pure solvent or matrix extract?		Extraction Method used to prepare matrix extract	
3	Name											
4	DROPDOWN	(dd.mm.yyyy hh:mm)					DROPDOWN	DROPDOWN	DROPDOWN	DROPDOWN	DROPDOWN	
5		*										
6												
7												
8												
9	·				<u> </u>							
10												

Method Validation Database



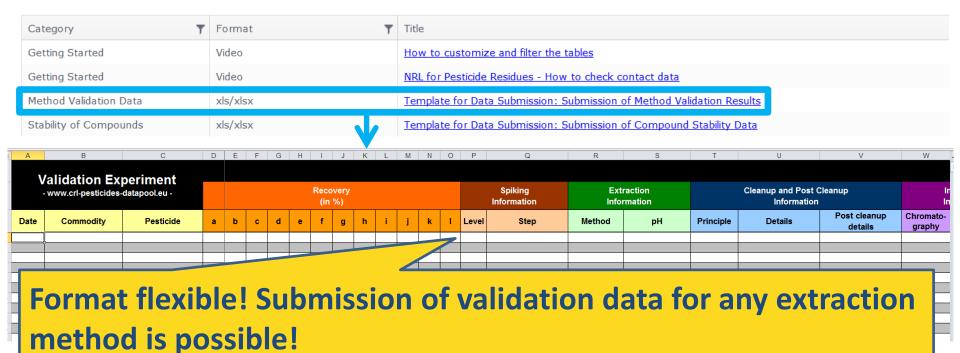
- Data submitted by 46 labs
- 420.000 recoveries
- 999 pesticides
- 208 commodities
- QuEChERS (citrate) + QuOil:
 91 % of recoveries
- S19: 1 % of rec.
- Sweet: 1 % rec.
- Quppe: 2 % rec.
- ChemElut: 5% rec.

Submission of Method Validation Data



Welcome to our Tutorial Page!

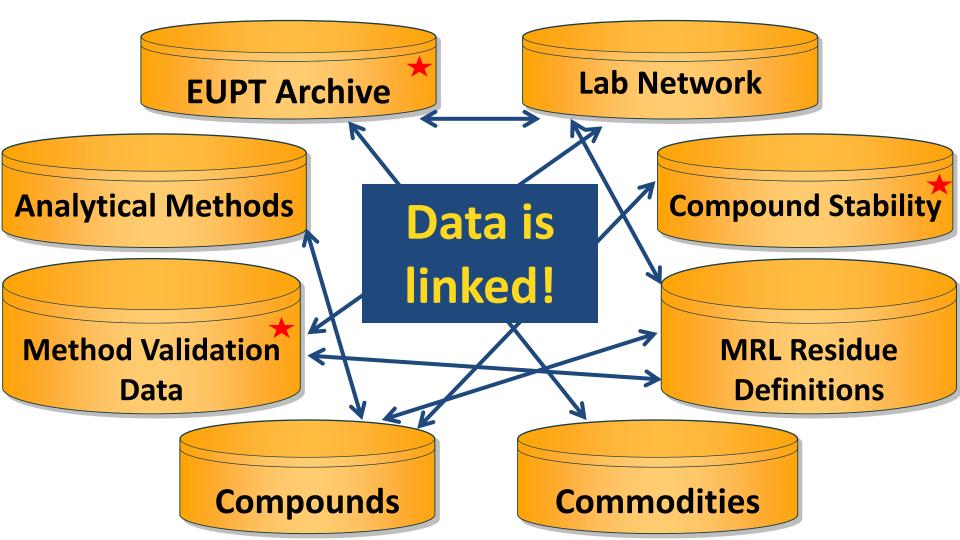
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Submission of Method Validation Data

Additional Info will be introduced soon:

⊿ A	В	C	AG	AH	Al	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
	Validatio Experime		ADDITIONAL INFO NET YET SHOWN IN EURL-DATAPOOL											
Date	Commodity		Matrix weight (g)	Matrix Details	Preextraction details	Time elapsed between spiking and extraction/or water addition (min)	water to	Modification in the extraction step 1 (before	Extraction- Step 1, time (min)	Modification in the extraction step 2 (after salt addition)	Extraction- Step 2, time (min)	Evaporation temp.	Evaporation Time	Evaporation Details
1														
2														
3														
4														
5														
6														
1 2 3 4 5 6														



Estimation of Measurement Uncertainty

$$u' = \sqrt{u'(bias)^2} + u'(RSD_{wR})^2$$

eupt data

method validation data

For details on "Online Tool for Estimation of Measurement Uncertainty" go to Download II of this presentation.

Output 1 | EURL DataPool - Website

- Convenient and efficient access to pesticide-related information
- Method Development

 Tool for Calculation of Measurement Uncertainty

Output 2 | EURL DataPool - Reporting

External

Evaluations for Lab / Network / COM

EFSA-reports

EU Lab-Network

DIN/CEN-Methods

PeRL - CheckYourScope

EU-Monitoring
Art. 12

EURL-PinBoard



Thank you for your attention!