

# ***WeedMap***

WorldwidE Electronic Database for MApping Plants

*Czech University  
of Life Sciences*

*Pavel Hamouz, Michaela Kolářová, Josef Soukup*

## **Short description**

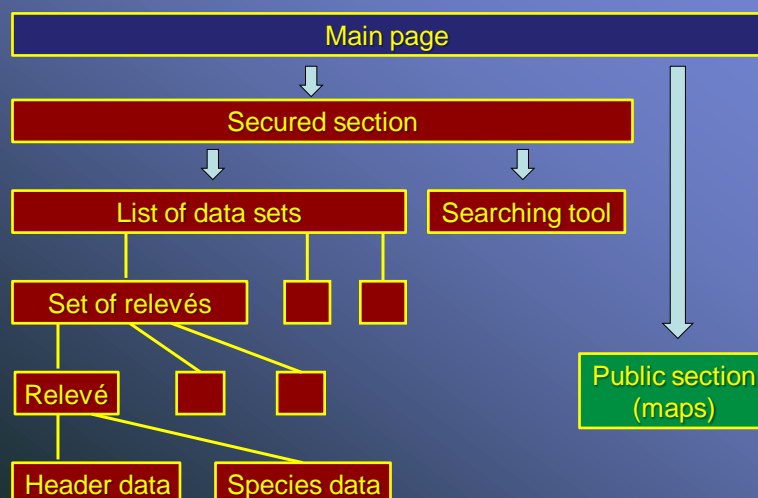
---

- web access: [www.weedmap.eu](http://www.weedmap.eu)
- created by Geocentrum company
- administered by Czech University of Life Sciences (Department of Agroecology and Biometeorology)
- designed for the collection of weed occurrence data (in form of relevés)
- it should provide information on the distribution of weeds for both scientific and public use

## Database sections

- Public section
  - dedicated to all people interested in geographical distribution of weeds.
  - allows displaying the collected data in maps of weed distribution.
- Secured section
  - designated for scientific workers
  - available for registered users only.
  - allows inserting, viewing, searching and exporting relevé data.

## Structure of WeedMap database



## Levels of access rights

---

### 1. Administrator

- ✓ management of all data (inserting, editing, deleting)
- ✓ management of access accounts

### 2. Scientific user

- ✓ viewing and searching for all data (relevés)
- ✓ management of his own data
- ✓ export upon consent of authors only

### 3. Free access for public - maps only

## Import and export

---

- import
  - ✓ turboveg, XLS
  - ✓ species data only
- export
  - XML, CSV
  - subject to the consent of authors, consenting process will be controlled by a software utility

## Examples

**WEEDMAP**  
INTERNATIONAL DATABASE FOR WEED MAPPING

This application was designed for the collection of data on weed occurrence on agricultural a non-agricultural land. The public section of the database allows searching and displaying the collected data in well-arranged maps of weed distribution. Secured section of the database is available for registered users only. It allows entering, viewing and exporting data in form of phytocoenological relevés.

[MORE INFORMATION](#)

**LOGIN**

**PASSWORD**

**LOGIN**

[LOST PASSWORD](#)

[REGISTRATION](#)

**PUBLIC**  
Public section is dedicated to all people interested in geographical distribution of weeds. It allows creating and viewing maps of weeds species distribution in a selected region...  
[Public maps ---](#)

**ABOUT**  
The objective of this application is collection, administration and provision of information on the occurrence of weeds and other plants. Obtained data should provide specific information on the distribution of weeds on agricultural and non-agricultural land for both research and public use...  
[More information ---](#)

**CONTACT**  
Department of Agroecology and Biometeorology  
Faculty of Agrobology  
Food and Natural Resources at the University of Life Sciences in Prague  
[weedmap@weedmap.eu](mailto:weedmap@weedmap.eu)

**WEEDMAP**  
This application was designed for the collection of data on weed occurrence on agricultural a non-agricultural land. The public section of the database allows searching and displaying the collected data in well-arranged maps of weed distribution. Secured section of the database is available for registered users only. It allows entering, viewing and exporting data in form of phytocoenological relevés.

## Examples

**Relevé sets**

Relevés Relevé sets Maps Search Configuration Events Help

**Dataset management**

show unselect sets  
 show only select sets [Add record](#)  
 show all

**My relevé sets**

ID	Name	Creation date	Description	Public	Set tools
1	Test set 1	15.06.2010	Dataset description	+	
523	Test set 3	15.09.2011	Dataset 3	✓	

## Examples

**Relevés**

Relevés Relevé sets Maps Search Configuration Events Help

Selection of dataset [x]

Export [PDF] Import Upload file Import

**Columns setting:**

<input checked="" type="checkbox"/> ID	<input checked="" type="checkbox"/> Locality	<input checked="" type="checkbox"/> Cover	<input checked="" type="checkbox"/> Crop cover	<input type="checkbox"/> No. in ref. table
<input checked="" type="checkbox"/> Field Relevé Number	<input checked="" type="checkbox"/> Latitude	<input type="checkbox"/> Distance	<input type="checkbox"/> Total-weed cover	<input type="checkbox"/> No. table
<input checked="" type="checkbox"/> Author	<input checked="" type="checkbox"/> Longitude	<input type="checkbox"/> Farming System	<input type="checkbox"/> Herbicide	<input type="checkbox"/> Remarks
<input checked="" type="checkbox"/> Country	<input checked="" type="checkbox"/> Altitude	<input type="checkbox"/> Crop preceding	<input type="checkbox"/> Soil Type	
<input checked="" type="checkbox"/> Province	<input checked="" type="checkbox"/> Date	<input type="checkbox"/> Crop	<input type="checkbox"/> Density	
<input type="checkbox"/> County	<input checked="" type="checkbox"/> Stage	<input type="checkbox"/> Crop Stage (R00C)	<input type="checkbox"/> Reference	

Abstract Hide icons

ID	Field Relevé Number	Author	Country	Province	Locality	Latitude	Longitude	Altitude	Date	Scale	Cover	Crop	Crop cover			
230	1		CZ		Jiřice u Miroslavi	48.92238	16.38914	200	15.08.2008	BB	8	TRZAW	85			
231	2		CZ	Jihomoravský	Hodonice	48.81801	16.19455	200	20.08.2007	BB	3	TRZAW	85			
232	3		CZ	Jihomoravský	Velké Hřibčice	48.98519	16.89511	200	20.08.2007	BB	0	TRZAW	80			
233	4		CZ	Jihomoravský	Hřádek	48.78105	16.27481	208	20.08.2007	BB	3	TRZAW	80			
234	5		CZ	Jihomoravský	Hodonice	48.81754	16.19554	200	20.08.2007	BB	0	TRZAW	70			
235	6		CZ	Jihomoravský	Velké Hřibčice	48.99329	16.88376	200	20.08.2007	BB	3	TRZAW	70			
236	7		CZ	Jihomoravský	Moutnice	49.05324	16.70384	200	20.08.2007	BB	1	TRZAW	80			
237	8		CZ	Jihomoravský	Jiřice	48.93257	16.40421	200	07.07.2008	BB	0	TRZAW	85			
238	9		CZ	Jihomoravský	Hřádek	48.75855	16.28092	200	07.07.2008	BB	2	TRZAW	85			
239	10		CZ	Jihomoravský	Hřádek	48.78633	16.26516	200	07.07.2008	BB	0	TRZAW	85			
240	11		CZ	Jihomoravský	Jiřice	48.92492	16.38012	225	15.07.2008	BB	0	TRZAW	80			
241	12		CZ	Jihomoravský	Hodonice	48.84454	16.15346	225	07.07.2008	BB	0	TRZAW	80			

## Detail of species data:

**Releve detail**

Relevés Relevé sets Maps Search Configuration Events Help

Show edit ID: 230 Field Relevé Number: 1 Locality: Jiřice u Miroslavi

ID	Species	Cover			
27352	Fallopia convolvulus	r			
27439	Fumaria officinalis	r			
27700	Lamium amplexicaule	1			
27805	Papaver rhoeas	+			
27892	Polygonum aviculare	+			
28267	Veronica hederifolia	1			
28317	Veronica polita	1			
28344	Viola arvensis	r			

1 - 8 / 8

Species

Cover

Přidat druh

## Structure of header data:

- ID number
- Original number
- Author
- Country
- Province
- County
- Site
- Latitude (WGS 84)
- Longitude
- Altitude (m a.s.l.)
- Date
- Cover scale (BB, BBE, %....)
- Relevé area (m<sup>2</sup>)
- Distance from a border (m)
- Land use type
- Management system (conventional, organic...)
- Crop
- Forecrop
- Crop stage (BBCH)
- Crop cover (%)
- Total weed cover (%)
- Herbicide I
- Herbicide II
- Herbicide III
- Soil type (WRB system)
- Geology
- Biblioreference
- Relevé number in the table
- Number of table
- Remarks

## Cover scale (conversion table)

Braun-Blanquet (basic)	Braun-Blanquet (extended)	Percent	Ordinal
r	r	0.02	1
+	+	0.1	2
1	1	2.5	3
2	2m	5	4
2	2a	8.75	5
2	2b	18.75	6
3	3	37.5	7
4	4	62.5	8
5	5	87.5	9

## Land use type

---

- arable land
- meadow
- pasture
- permanent crops
- non-agricultural land

## Plant nomenclature

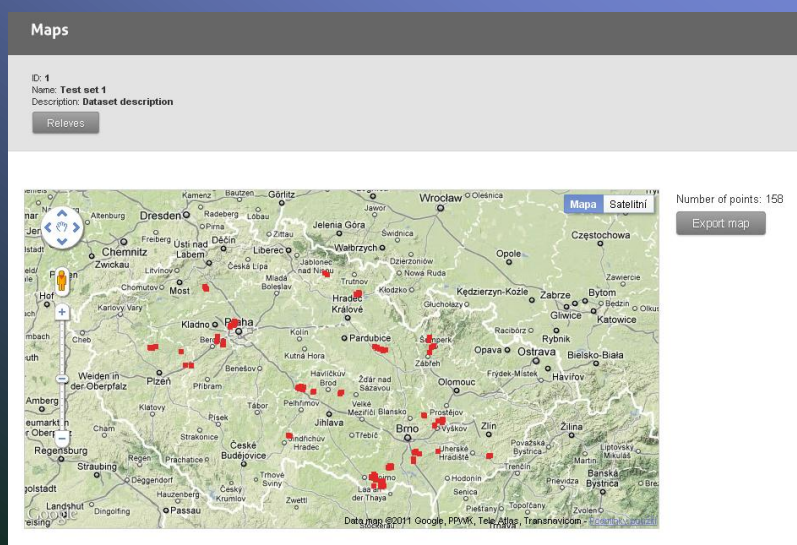
---

- adopted from EPPO database
- includes about 15 000 plant species
- many synonyms also included (one name preferred only)
- with EPPO (Bayer) code system

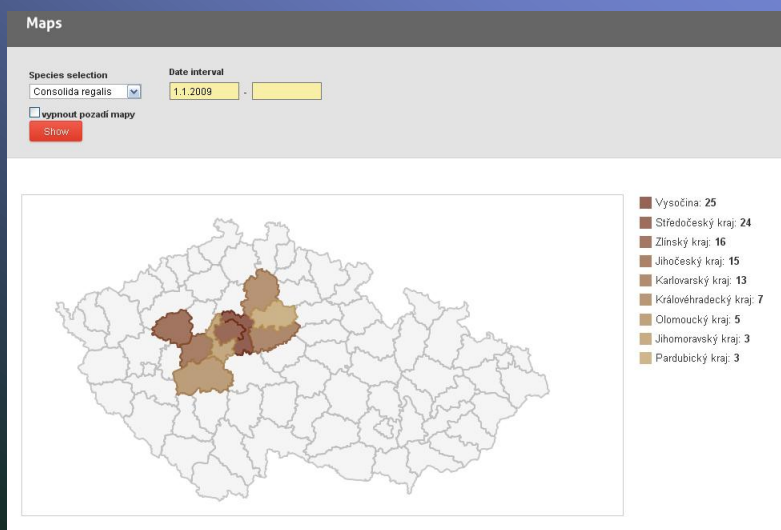
## Maps

- 1. type - relevé(s) position
- 2. type – species distribution maps
  - calculated as mean cover of selected species in selected relevés
- export in .JPG format

## Map of relevés position



## Species distribution in defined regions



## Important questions

- Is there a need for revision (validation) of inserted data by administrator? If so, how to do it?
- Is it appropriate to insert published data only?
- Is it appropriate to allow users to delete their own data from the database without permission?
- .....

