



## Metadata

# Restoration measures in the Lahn river

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### General information

**name of the dataset:**

full name of the dataset: *Restoration measures in the Lahn river*

dataset short name: *Lahn river*

**type of dataset ([more information](#)):** *species (taxonomic group) per site database including environmental information*

data type: *point data/observation data*

**science keywords according to [GCMD](#):**

topic: *Biosphere*

**ISO topic category according to [ISO 19115](#):**

*Biota, Inland Waters*

## Technical and administrative specifications

**data format:** *Access*  
others/details: *Excel*  
**operating system:** *Win 7*  
**data language:** *English*  
**current access level:** *internal*  
currently available through [GBIF](#): *no*  
exchange planned: *no*  
**update level:** *completed*  
**documentation:**  
**Do you plan to publish the data on the Freshwater Biodiversity data portal:**  
*no*  
media for data delivery: *online internet (HTTP)*  
**contact details:**

metadata contact person:  
first, last name: *Kathrin Januschke*  
phone: *+49 (201) 1833113*  
email: *kathrin.januschke@uni-due.de*  
institution: *Department of Aquatic Ecology, University of Duisburg-Essen*  
postal code, city: *45141 Essen*  
province, state: *North Rhine-Westfalia*  
country: *Germany*

technical contact person:  
scientific contact person:

## Intellectual property rights and citation

(if the database is already published):

### dataset creator (data compiler):

contact name: *Kathrin Januschke*  
contact email: *kathrin.januschke@uni-due.de*  
contact institution: *Department of Aquatic Ecology, University of Duisburg-Essen*

### data contributors to/owners of this dataset:

number: *multiple*  
number: *2*

### provider 1:

provider institute:  
contact name:  
contact email:  
criteria for using the data in a publication/scientific analysis:  
*The dataset needs to be requested from dataset creator with specific conditions of use.*

### provider 2:

provider institute:  
contact name:  
contact email:  
criteria for using the data in a publication/scientific analysis:  
*The dataset needs to be requested from dataset creator with specific conditions of use.*

### citation of this dataset:

### citation of the metadata:

## General data specifications

### regional coverage of the dataset:

scale of the dataset: *regional*  
continents: *Europe*  
countries: *Europe: Germany*

## Site specifications

**coordinate system/grid data:** *projected, local others: DHDN\_3\_Degree\_Gauss\_Zone\_3*  
datum (e.g. WGS84): *DHDN*  
comments: *Bessel\_1841*

**other site classification parameters:**  
*Floodplain type (Koenzen, 2005): Gefaellereiche Flussaue des Grundgebirges (Schotter)*

**number of sites:** *<100*  
exact number of sites: *8*

## Climate and environmental data

**climate related data:** *no data available*

**environmental data:**

available parameters per catchment: *catchment land cover/land use*  
COPIES source:

available parameters per site: *information on riparian vegetation (incl. information on modification)*  
vegetation surveys

available parameters per site: *information on embankment (incl. information on modification)*  
transverse:habitat data

available parameters per site: *information on channel form (incl. information on modification)*  
transverse:habitat data

available parameters per site: *information on cross section (incl. information on modification)*  
transverse:habitat data

available parameters per site: *altitude*  
GIS data source:

available parameters per site: *current velocity*  
transverse:current data using a 5-point scale (100 data points per sample)

available parameters per site: *maximum depth*  
transverse:habitat data

available parameters per site: *mean depth*  
transverse:habitat data

available parameters per site: *wetted width*  
transverse:habitat data

available parameters per site: *substrate composition*  
transverse:habitat data

available parameters per site: *information on instream habitat (incl. information on modification)*  
transverse:habitat data

**physico-chemistry data:** *oxygen content, water temperature, pH, conductivity*

availability of physico-chemical data, if there is more than one sample per site:  
*per sample*

comments: *not available for all samples*

**stressors influencing the sites:**

reference sites available: *no*

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
hydromorphological degradation	yes	no	yes	

comments: *4 restored sites (restored in 2000, 2001, 2002 and 2006)and 4 upstream non-restored sites*

## Biological data

**biological data origin:** *from sampling*  
specify project: *Phd theses and projects*

organism group addressed: *terrestrial invertebrates, macrophytes, other group(s): riparian vegetation*

## Sample specifications/sample resolution

### terrestrial invertebrates:

#### sample information:

covered timeframe:

year from - to: 2005 - 2012

historical data: no

season: summer

temporal resolution/frequency of sampling:

*for 6 sites 2005 and 2009; for 2 sites also 2012*

time series data: no

**taxonomic resolution:** species

percentage of species level data: 100

comments: *Carabid beetles*

#### taxonomic coding:

taxalist according to: *Fauna Europaea*

**sample specifications:** semi-quantitative

replicate samples: yes

number of samples: 14

specification of method(s) used for sampling and sorting:

*Combination of pitfall traps (vegetated zones) and hand sampling (unvegetated zones); pitfall traps (4 cm diameter, 8.5 cm depth, 200 ml volume), filled with 100 ml Renner-solution (Renner 1980) and a detergent to reduce surface tension.*

sample type (e.g. habitat specific samples, composite samples etc.):

*6 pitfalls in vegetated zones, 6 handsamplings in unvegetated zones*

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### macrophytes:

#### sample information:

covered timeframe:

year from - to: 2007 - 2012

historical data: no

palaeo data: no

season: summer

temporal resolution/frequency of sampling:

*per year*

time series data: no

**taxonomic resolution:** species

percentage of species level data: 100

comments: *except for Callitriche*

#### taxonomic coding:

taxalist according to: *Schaumburg et al., 2004*

**sample specifications:** semi-quantitative

replicate samples: yes

number of samples: 12

specification of method(s) used for sampling and sorting:

*WFD method (Phylib)*

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### other group(s):

#### sample information:

covered timeframe:



year from - to: 2005 - 2009  
historical data: no  
season: summer  
temporal resolution/frequency of sampling: 4 sites with 2005, 2009, 2012; 2 sites with 2005 + 2009 + 2012, 1 site only 2009  
comments: Riparian vegetation  
**taxonomic resolution:** species, other  
other taxonomic levels: vegetation units  
percentage of species level data: 100  
**taxonomic coding:**  
taxalist according to: Ellenberg (1996)  
**sample specifications:** semi-quantitative  
replicate samples: no  
number of samples: 16  
specification of method(s) used for sampling and sorting: Transect-based grab-sampling: length of vegetation units was measured along 3 transects per site; for each vegetation unit present in a site, coverage of plant species was recorded at three sample plots (2x3m).

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## Other specifications

### GIS layers, shapes related to the dataset:

*no data available*

**availability of photos:** *yes*

**availability of maps:** *no*

### quality control procedures:

Were any quality control procedures applied to your dataset?

*yes*