

# Database of the MANSCAPE project (Management tools for water bodies in agricultural landscapes)

*Pieter Lemmens, Aaike De Wever, Henrietta Hampel, Tom De Bie, Dirk Ercken, Jeroen Van Wichelen, Luc Denys, Boudewijn Goddeeris, Syaghalirwa N.M. Mandiki, Leo Vanhecke, Katleen van der Gucht, Dirk Bauwens, Sara Denayer, Riet Durinck, Renaat Dasseville, Marie Lionard, Frank van De Meutter, Gerald Louette, Ann Hulsmans, Koen De Gelas, Isa Schön, Hilde Vrijders, Annelies Maes, Bertrand Losson, Saadia Lasri, Patrick Kestemont, Wim Vyverman, Pieter Vanormelingen, Luc Brendonck, Luc De Meester, Steven A.J. Declerck & Koen Martens*



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## Database of the MANSCAPE project (Management tools for water bodies in agricultural landscapes)

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### Keywords

farmland ponds, occurrences, environmental conditions, Belgium

### Short description of the dataset/summary

The database of the MANSCAPE project (Integrated management tools for water bodies in agricultural landscapes) comprises species occurrence data of seven different organism groups (phytoplankton, diatoms, zooplankton, macro-invertebrates, macrophytes, amphibians and fish) and data on physical, chemical and morphometric variables of 126 small farmland ponds distributed over almost the entire Belgian territory.

## General information

dataset entry ID:	SF_2
<b>name of the dataset:</b>	
full name of the dataset:	Integrated management tools for water bodies in agricultural landscapes
dataset short name:	MANSCAPE
<b>type of dataset:</b>	species (taxonomic group) per site database including environmental information
data type:	point data/observation data
<b>science keywords according to <a href="#">GCMD</a>:</b>	
topic:	Agriculture, Biosphere, Biological Classification, Land Surface, Terrestrial Hydrosphere
keywords:	farmland ponds, occurrences, environmental conditions, Belgium
<b>ISO topic category according to <a href="#">ISO 19115</a>:</b>	
	Farming, Biota, Environment, Inland Waters

## Technical and administrative specifications

<b>data format:</b>	Excel
<b>operating system:</b>	all operating systems
<b>data language:</b>	English
<b>current access level:</b>	web (public)
web address (URL):	<a href="http://data.freshwaterbiodiversity.eu/ipt/resource?r=manscape">http://data.freshwaterbiodiversity.eu/ipt/resource?r=manscape</a>
currently available through <a href="#">GBIE</a> :	yes
exchange planned:	no
data in data repository:	no

### Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

	already published through BioFresh
media for data delivery:	BioFresh IPT ( <a href="http://data.freshwaterbiodiversity.eu/ipt/" target="_blank">IPT</a> )
<b>update level:</b>	completed
<b>documentation:</b>	
type:	scientific paper
language:	English
<b>contact details:</b>	
metadata contact person:	
first, last name:	Koen Martens
phone:	+32 (0)2 627 43 15
email:	koen.martens@naturalsciences.be
institution:	Royal Belgian Institute of Natural Sciences
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postal code, city:	1000 Brussels
country:	Belgium
technical contact person:	
first, last name:	Koen Martens
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scientific contact person:	
first, last name:	Koen Martens
phone:	+32 (0)2 627 43 15

email: koen.martens@naturalsciences.be

## Intellectual property rights and citation

### dataset creator (data compiler):

contact name: Pieter Lemmens  
contact email: pieter.lemmens@bio.kuleuven.be  
contact institution: KU Leuven

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

multiple  
number: 6

### data contributor/owner 1:

contact name: Koen Martens  
contact email: koen.martens@naturalsciences.be  
contact institute: KBIN

#### criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

### data contributor/owner 2:

contact name: Wim Vijverman  
contact email: wim.vyverman@ugent.be  
contact institute: UGent

#### criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

### data contributor/owner 3:

contact name: Patrick Kestemont  
contact email: patrick.kestemont@unamur.be  
contact institute: UNamur

#### criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

### data contributor/owner 4:

contact name: Dirk Bauwens  
contact email: dirk.bauwens@inbo.be  
contact institute: INBO

#### criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

### data contributor/owner 5:

contact name: Leo Van Hecke  
contact email: leo.vanhecke@skynet.be  
contact institute: National Botanical Garden

#### criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed

prior to publication. Data must be acknowledged and cited correctly.

**data contributor/owner 6:**

contact name: Luc De Meester  
contact email: luc.demeester@kuleuven.be  
contact institute: KULeuven  
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

**citation of this dataset:**

author(s): Lemmens P., De Wever A., Hampel H., De Bie T., Ercken D., Van Wichelen J., Denys L., Goddeeris B., Mandiki S.N.M., van Hecke L., van der Gucht K., Bauwens D., Durinck R., Dasseville R., Lionard M., van De Meutter F., Louette G., Hulsmans A., De Gelas K., Schön I., Vrijders H., Maes A., Losson B., Lasri S., Kestemont P., Vyverman W., Vanormelingen P., Brendonck L., De Meester L., Declerck S.A.J. & Martens K.  
title: Management tools for waterbodies in agricultural landscapes (MANSCAPE)  
year: 2017

**citation of the metadata:**

author(s): Lemmens P., De Wever A., Hampel H., De Bie T., Ercken D., Van Wichelen J., Denys L., Goddeeris B., Mandiki S.N.M., Vanhecke L., van der Gucht K., Bauwens D., Denayer S., Durinck R., Dasseville R., Lionard M., van De Meutter F., Louette G., Hulsmans A., De Gelas K., Schön I., Vrijders H., Maes A., Losson B., Lasri S., Kestemont P., Vyverman W., Vanormelingen P., Brendonck L., De Meester L., Declerck S.A.J. & Martens K.  
title and journal (name, number, pages): Database of the MANSCAPE project (Management tools for water bodies in agricultural landscapes). *Freshwater Metadata Journal* 0: 0-0  
year: 0000  
doi: <https://doi.org/10.15504/fmj.0000.0>

**dataset related references:**

reference 1:

author(s): De Bie T., De Meester L., Brendonck L., Martens K., Goddeeris B., Ercken D., Hampel H., Denys L., Vanhecke L., Van der Gucht K., Van Wichelen J., Vyverman W., Declerck S.L., Van der Gucht K., Van Wichelen J., Vyverman W. & Declerck S.A.J.  
title: Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.  
year: 2012  
doi: 10.1111/j.1461-0248.2012.01794.x

**General data specifications**

**regional coverage of the dataset:**

scale of the dataset: national  
continents: Europe

**spatial extent (bounding coordinates):**

southernmost latitude [°]: 51.42  
northernmost latitude [°]: 49.68

westernmost longitude [°]:	2.84
easternmost longitude [°]:	5.95
countries:	Europe: Belgium
<b>world climatic regions according to Köppen:</b>	Group C: temperate/mesothermal climates
freshwater ecoregions of the world (FEOW) according to <a href="#">WWF</a> :	Europe: Central & Western Europe
<b>European ecoregions according to Illies (<a href="#">WFD</a>):</b>	Western Plains (ER13)
<b>ecosystem type:</b>	lakes/ponds
<b>covered timeframe:</b>	2003 - 2004

## Site specifications

<b>coordinate system/grid data:</b>	latitude/longitude, format: DD projected, UTM
datum (e.g. WGS84):	WGS84
grid data available:	no
<b>site coding:</b>	
site coding available:	yes, alphanumerical
number of digits:	7
example:	AnHerEx
<b>number of sites:</b>	100 - 1000
exact number of sites:	126

## Climate and environmental data

<b>climate related data:</b>	no data available
<b>environmental data:</b>	no parameter data per catchment available
available parameters per site:	maximum depth mean depth substrate composition land use at multiple perimeters around each pond
comments:	Data on land use in different perimeters around the pond are available in the main database (see also T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012): Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. Ecology Letters, 15(7), 740-747.)
<b>physico-chemistry data:</b>	total P, nitrate, total N, sulphate, hardness, alkalinity, oxygen content, water temperature, pH, conductivity, chlorophyll, Secchi disc depth, suspended solids
availability of physico-chemical data, if there is more than one sample per site:	per sample
<b>stressors influencing the sites:</b>	
reference sites available:	no
	no stressor data available

## Biological data

**biological data origin:** from sampling  
 specify project: MANSCAPE  
 organism group addressed: amphibians, fish, macro-invertebrates (Mollusca, Ephemeroptera, Odonata, Plecoptera, Coleoptera, Trichoptera, Chironomidae), zooplankton (Cladocera), phytoplankton, (benthic) diatoms, macrophytes

## Sample specifications/sample resolution

### amphibians:

#### sample information:

covered timeframe: 2003 - 2003  
 historical data: no  
 season: summer  
 temporal resolution/frequency of sampling:  
 per year  
 time series data: no

#### taxonomic resolution:

level: species

#### taxonomic coding:

taxalist according to: Arnold E.N. & Ovenden D.W. (2002)  
 reference(s): Arnold E.N. & Ovenden D.W. (2002). Reptiles and amphibians of Europe. Princeton University Press, Princeton, NJ.

#### sample specifications:

type: presence/absence  
 replicate samples: no  
 comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.

### fish:

#### sample information:

covered timeframe: 2003 - 2003  
 historical data: no  
 palaeo data: no  
 season: summer  
 temporal resolution/frequency of sampling:  
 per year  
 time series data: no

#### taxonomic resolution:

level: species

#### taxonomic coding:

taxalist according to: Keith P. & Allardi J. (2001)  
 reference(s): Keith P. & Allardi J. (2001). Atlas des poissons d'eau douce de France.



Publications Scientifiques du M.N.H.N., Paris.

**sample specifications:**

type: quantitative (abundance data)  
 comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.

**macro-invertebrates:**

**sample information:**

covered timeframe: 2003 - 2003  
 historical data: no  
 palaeo data: no  
 season: summer  
 temporal resolution/frequency of sampling: per year  
 time series data: no

**taxonomic resolution:**

level: species  
 comments: Chironomidae, Ephemeroptera, Trichoptera, Heteroptera, Mollusca and Coleoptera were identified to species level.

**taxonomic coding:**

taxalist according to: see full reference list below  
 reference(s): Devriese R., Warmoes T. & Vercoutere B. (1997). Land- en zoetwatermollusken van de Benelux. Jeugdbond voor Natuur en Milieu, Gent.

De Pauw N. & Vannevel R. (1990). Macro-invertebraten en waterkwaliteit. Stichting Leefmilieu vzw., Antwerpen.

Drost M.B.P., Cuppen H.P.J.J., Nieukerken E.J. & Schreijer M. (1992). De waterkevers van Nederland. Uitgeverij K.N.N.V., Utrecht, The Netherlands.

Savage A.A. (1989). Adults of the British aquatic Hemiptera Heteroptera: a key with ecological notes. Freshwater Biological Association, Ambleside (UK).

Wiederholm T. (1983). Chironomidae of the holarctic region: keys and diagnoses, Part 1 - larvae. *Entomologica Scandinavica Supplement* 19.

Moller Pillot H.K.M. (1984a). De larven der Nederlandse Chironomidae (Diptera) (Inleiding, Tanypodinae en Chironomini). *Nederlandse Faunistische Mededelingen*, 1A, 1-227.

Moller Pillot H.K.M. (1984b). De larven der Nederlandse Chironomidae (Diptera) (Orthocladiinae sensu lato). *Nederlandse Faunistische Mededelingen*, 1B, 1-175.

**sample specifications:**

type: quantitative (abundance data)  
 replicate samples: no  
 comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and

dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.

**zooplankton:**

**sample information:**

covered timeframe: 2003 - 2003  
 historical data: no  
 palaeo data: no  
 season: summer  
 temporal resolution/frequency of sampling: per year  
 time series data: no

**taxonomic resolution:**

level: species  
 comments: Cladocera and Rotifera were counted and identified to species and genus level, respectively.

**taxonomic coding:**

taxalist according to: Nootenboom-Ram E. (1981); Flössner D. (2000); Alonso M. (1996)  
 reference(s): Nootenboom-Ram E. (1981). *Verspreiding en Ecologie van de Branchiopoda in Nederland*. In: Arnhem, p. 95.

Alonso M. (1996). *Crustacea Branchiopoda. Fauna Iberica 7*. Museo Nacional de Ciencias Naturales (CSIC) Madrid.

Flössner D. (2000). *Die Haplopoda und Cladocera (ohne Bosminidae) Mitteleuropas*. Backhuys Publishers, Leiden.

**sample specifications:**

type: quantitative (abundance data)  
 replicate samples: no  
 comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) *Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. Ecology Letters*, 15(7), 740-747.

**phytoplankton:**

**sample information:**

covered timeframe: 2003 - 2003  
 historical data: no  
 season: summer  
 temporal resolution/frequency of sampling: per year

**taxonomic resolution:**

level: genus

**taxonomic coding:**

taxalist according to: John D.M., Whitton B.A. & Brook A.J. (2002); Tikkanen T. & Willén T. (1992)  
 reference(s): John D.M., Whitton B.A. & Brook A.J. (2002). *The freshwater algal flora of the British isles*. Cambridge University Press, Cambridge.

Tikkanen T. & Willén T. (1992). *Växtpflantonflora*. Författarna Natur, Solna

**sample specifications:**

type: quantitative (abundance data)

replicate samples: no  
 comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.

**(benthic) diatoms:****sample information:**

covered timeframe: 2003 - 2004  
 historical data: no  
 palaeo data: no  
 season: summer  
 temporal resolution/frequency of sampling:  
 per year  
 time series data: no

**taxonomic resolution:**

level: species

**taxonomic coding:**

taxalist according to: see full reference list below

reference(s): Krammer K. & Lange-Bertalot H. (1986). Süßwasserflora von Mitteleuropa 2: Bacillariophyceae. 1. Teil: Naviculaceae. Gustav Fischer Verlag, Stuttgart.

Krammer K. (1997a). Die cymbelloiden Diatomeen. Eine Monographie der weltweit bekannten Taxa. Teil 1. Allgemeines und Encyonema Part. *Bibliotheca Diatomologica* 36, 1-382.

Krammer K. (1997b). Die cymbelloiden Diatomeen. Eine Monographie der weltweit bekannten Taxa. Teil 2. Encyonema part., Encyonopsis and Cymbellopsis. *Bibliotheca Diatomologica* 37, 1-469.

Krammer K. (2000). Diatoms of Europe. Vol. 1. The genus *Pinnularia*. A.R.G. Gantner Verlag K.G., Ruggell.

Krammer K. (2002). Diatoms of Europe. Vol. 3. *Cymbella*. A.R.G. Ganter Verlag K.G., Ruggell.

Krammer K. (2003). Diatoms of Europe. Vol. 4. *Cymbopleura*, *Delicata*, *Navicymbula*, *Gomphocymbellopsis*, *Afrocymbella*. A.R.G. Ganter Verlag K.G., Ruggell.

Krammer K. & Lange-Bertalot H. (2004). Süßwasserflora von Mitteleuropa 2: Bacillariophyceae. 3. Teil: Centrales, Fragilariaceae, Eunotiaceae. Elsevier GmbH, Spektrum Akademischer Verlag, Heidelberg.

Krammer K. & Lange-Bertalot H. (2007). Süßwasserflora von Mitteleuropa 2: Bacillariophyceae. 2. Teil: Bacillariaceae, Epithemiaceae, Surirellaceae. Ergänzter Nachdruck der 1. Auflage. Elsevier GmbH, Spektrum Akademischer Verlag, Heidelberg.

Lange-Bertalot H. (2001). Diatoms of Europe. Vol. 2. *Navicula sensu stricto*, 10

genera separated from *Navicula sensu lato*, *Frustulia*. Gartner Verlag, Ruggel.

Lange-Bertalot H. & Moser G. (1994). *Brachysira*: Monographie der Gattung. *Bibliotheca Diatomologica* 29, 1-212.

Lange-Bertalot H. & Metzeltin D. (1996). Oligotrophie-Indikatoren. 800 Taxa repräsentativ für drei diverse Seen-Typen, kalkreich - oligodystroph - schwach gepuffertes Weichwasser. *Iconographia Diatomologica* 2: 1-390, 9

Lange-Bertalot H., Cavacini P., Tagliaventi N. & Alfinito S. (2003). Diatoms of Sardinia. Rare and 76 new species in rock pools and other ephemeral waters. *Iconographia Diatomologica* 12, 1-438.

Werum M. & Lange-Bertalot H. (2004). Diatoms in springs from Central Europe and elsewhere under the influence of hydrogeology and anthropogenic impacts. *Iconographia Diatomologica* 13, 3-417.

**sample specifications:**

type: quantitative (abundance data)  
replicate samples: no  
comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. *Ecology Letters*, 15(7), 740-747.

**macrophytes:**

**sample information:**

covered timeframe: 2003 - 2003  
historical data: no  
palaeo data: no  
season: summer  
temporal resolution/frequency of sampling: per year

**taxonomic resolution:**

level: species

**taxonomic coding:**

taxalist according to: see full reference list  
reference(s): Haslam S.M., Sinker C.A. & Wolseley P.A. (1975). *British water plants*. *Field Studies* 4, 243-351.

Casper S.J. & Kraus H.D. (1980). *Süßwasserflora von Mitteleuropa*, Band 23. *Pteridophyta und Anthophyta*, 1. Teil: *Lycopodiaceae bis Orchidaceae* Fischer Verlag, Jena.

Jermy A.C., Chater A.O. & David R.W. (1982). *Sedges of the British Isles* 2 edn. Botanical Society of the British Isles, London.

**sample specifications:**

type: semi-quantitative  
comments: For details see appendix of T. De Bie, L. De Meester, L. Brendonck, K. Martens, B. Goddeeris, D. Ercken, H. Hampel, L. Denys, L. Vanhecke, K. Van der Gucht, J. Van Wichelen, W. Vyverman & S. A. J. Declerck (2012) Body size and dispersal mode as key traits determining metacommunity structure of aquatic

organisms. Ecology Letters, 15(7), 740-747.

## Other specifications

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

no data available

**availability of photos:** no

**availability of maps:** no

### quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

Species names were checked using the GBIF species list. In addition, the quality of data has been checked with the phwhip validator.

## Acknowledgements

The authors acknowledge the Belgian Science Policy (Belspo) for funding the original MANSCAPE project (Integrated management tools for water bodies in agricultural landscapes" - 2003-2006), as well as for funding the SAFRED project (Saving freshwater biodiversity research data - 2015-2018) that allowed processing and publishing the Mandscape data, amongst others.

## References

De Bie T., De Meester L., Brendonck L., Martens K., Goddeeris B., Ercken D., Hampel H., Denys L., Vanhecke L., Van der Gucht K., Van Wichelen J., Vyverman W., Declerck S.L., Van der Gucht K., Van Wichelen J., Vyverman W. & Declerck S.A.J., 2012. Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. Ecology Letters 15(7), 740-747. <https://doi.org/10.1111/j.1461-0248.2012.01794.x>