**General information**

**name of the dataset:**
- full name of the dataset: *Midden-Limburg Fish Ponds Survey*
- dataset short name: *Midden-Limburg Survey*

**type of dataset (more information):**
- data type: *point data/observation data*
- short description of the dataset/summary: The Midden-Limburg pond dataset contains data on local habitat conditions and taxonomic community composition of multiple aquatic organism groups (phytoplankton, zooplankton, aquatic vegetation, macro-invertebrates and fish) from 38 interconnected fish ponds in the fish pond complex *Midden-Limburg* (Limburg, Belgium). The selection of fish ponds represents five different pond management types.

**science keywords according to GCMD:**
- topic: *Biosphere, Biological Classification, Land Surface, Terrestrial Hydrosphere*
- keywords: *fish ponds, occurrences, environmental conditions, pond management, Belgium*

**ISO topic category according to ISO 19115:**
- *Biota, Environment, Inland Waters*
Technical and administrative specifications

Data format: Excel
Operating system: all operating systems
Data language: English
Current access level: web (public)
Web address (URL): http://data.freshwaterbiodiversity.eu/ipt/manage/resource?r=midden-limburg
Currently available through GBIF: 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>)
Web address: http://data.freshwaterbiodiversity.eu/ipt/
Update level: completed

Documentation:
Type: manual
Language: English

Contact details:

Metadata contact person:
First, last name: Luc De Meester
Email: luc.demeester@kuleuven.be
Institution: KU Leuven
Address: Ch. Deberiotstraat 32
Postal code, city: 3000 Leuven
Province, state: Vlaams Brabant
Country: Belgium

Technical contact person:
First, last name: Luc De Meester
Email: luc.demeester@kuleuven.be

Scientific contact person:
First, last name: Luc De Meester
Email: luc.demeester@kuleuven.be
Dataset: Midden-Limburg Fish Ponds Survey

Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):
  contact name: Pieter Lemmens
  contact email: pieter.lemmens@kuleuven.be
  contact institution: KU Leuven

data contributors to/owners of this dataset:
  number: multiple

provider 1:
  provider institute: KU Leuven
  contact name: Pieter Lemmens
  contact email: pieter.lemmens@kuleuven.be
  criteria for using the data in a publication/scientific analysis:
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.

provider 2:
  provider institute: INBO
  contact name: Joachim Mergeay
  contact email: joachim.mergeay@inbo.be
  criteria for using the data in a publication/scientific analysis:
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.

provider 3:
  provider institute: KU Leuven
  contact name: Tom De Bie
  contact email: tom.debie@kuleuven.be
  criteria for using the data in a publication/scientific analysis:
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.

provider 4:
  provider institute: INBO
  contact name: Jeroen Van Wichelen
  contact email: jeroen.vanwichelen@inbo.be
  criteria for using the data in a publication/scientific analysis:
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.

provider 5:
  provider institute: KU Leuven
  contact name: Luc De Meester
  contact email: luc.demeester@kuleuven.be
  criteria for using the data in a publication/scientific analysis:
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.

**provider 6:**
- **provider institute:** NIOO
- **contact name:** Steven A.J. Declerck
- **contact email:** S.Declerck@nioo.knaw.nl

**criteria for using the data in a publication/scientific analysis:**

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., Mergeay, J., De Bie, T., Ercken, D., Van Wichelen, J., Declerck, S.A.J. & De Meester, L.
- **title:** Biodiversity in interconnected Belgian man-made fish ponds representing different pond management types
- **year:** 2017

**citation of the metadata:**
- **author(s):** Lemmens P., Mergeay J., Ercken D., De Bie T., Van Wichelen J., Declerck S.A.J. & De Meester L.
- **title and journal (name, number, pages):** Database on local environmental conditions and biodiversity in fish ponds in Midden-Limburg, Belgium. Freshwater Metadata Journal 0: 0-0
- **year:** 0000
- **doi (if applicable):** https://doi.org/10.15504/fmj.0000.0
General data specifications

regional coverage of the dataset:
  scale of the dataset: regional
  continents: Europe

spatial extent (bounding coordinates):
  southernmost latitude [°]: 51801.47
  northernmost latitude [°]: 52315.24
  westernmost longitude [°]: 505824.47
  easternmost longitude [°]: 505969.98
  countries: Europe: Belgium
## Site specifications

**coordinate system/grid data:**

- datum (e.g. WGS84): *WGS84*
- grid data available: *no*

**site coding:**

- site coding available: *yes*
- number of digits: *3*
- example: *BK7, K1*

**number of sites:**

- exact number of sites: *38*
Climate and environmental data

climate related data: no data available
environmental data: no parameter data per catchment available
available parameters per site: management type

Lemmens et al., 2013
comments: See Lemmens et al. (2013) or more details on the different pond management types.

physico-chemistry data: total P, total N, oxygen content, water temperature, pH, conductivity, chlorophyll, Secci disc depth, suspended solids, substrate
other physico-chemical parameters: Percentage of pond surface covered with submerged, floating and emergent vegetation, and pond size.
availability of physico-chemical data, if there is more than one sample per site: mean values per site

stressors influencing the sites: no
reference sites available: no

no stressor data available
### Biological data

**biological data origin:** from sampling  
**specify project:** TWOL research project (LIM/AMINAL/AN/LIM/2004/10)

**organism group addressed:** fish, macro-invertebrates (Mollusca, Ephemeroptera, Trichoptera, Chironomidae), zooplankton (Cladocera), phytoplankton, macrophytes
Sample specifications/sample resolution

**fish:**

**sample information:**
- covered timeframe: 2006 - 2007
- historical data: no
- palaeo data: no
- season: summer
- temporal resolution/frequency of sampling: per year

**taxonomic resolution:**

**taxonomic coding:**
- taxalist according to: FishBase

**sample specifications:**
- replicate samples: no

**macro-invertebrates:**

**sample information:**
- covered timeframe: 2006 - 2007
- historical data: no
- palaeo data: no
- season: spring, summer
- temporal resolution/frequency of sampling: per year
- time series data: no

**taxonomic resolution:**
- comments: Ephemeropterans, Hemiptera and Mollusca were identified to species level. Determination of Diptera was done up to family level. Other organisms were only sorted to higher taxonomic levels and counted (Acari and Hirudinea to subclass, Trichoptera and Lepidoptera to order).

**taxonomic coding:**
- taxalist according to: De Pauw N. & Vanneoel R. (1991)

**sample specifications:**

**zooplankton:**

**sample information:**
- covered timeframe: 2006 - 2007
- historical data: no
Dataset: Midden-Limburg Fish Ponds Survey

For phytoplankton data:
- palaeo data: no
- season: summer
- time series data: no
- taxonomic resolution:
  - comments: Cladocera were identified to species level using Flössner (2000) and counted. Daphnia galeata (Sars) and D. longispina (Müller) were considered as one taxon. Copepoda were divided in two main groups (Cyclopoids and Calanoids) and counted.
- taxonomic coding:
  - taxalist according to: Flössner D. (2000)
- sample specifications:
  - replicate samples: no

For macrophytes data:
- covered timeframe:
  - year from - to: 2006 - 2007
  - historical data: no
  - season: summer
  - time series data: no
- taxonomic resolution:
- taxonomic coding:
van België, het Groothertogdom Luxemburg, Noord-Frankrijk en de aangrenzende gebieden (Pteridofyten en Spermatofyten). Een uitgave van het Patrimonium van de Nationale Plantentuin van België.

**sample specifications:**

**comments:**

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.