

# Assessment of Macroinvertebrates in Lake Durowskie



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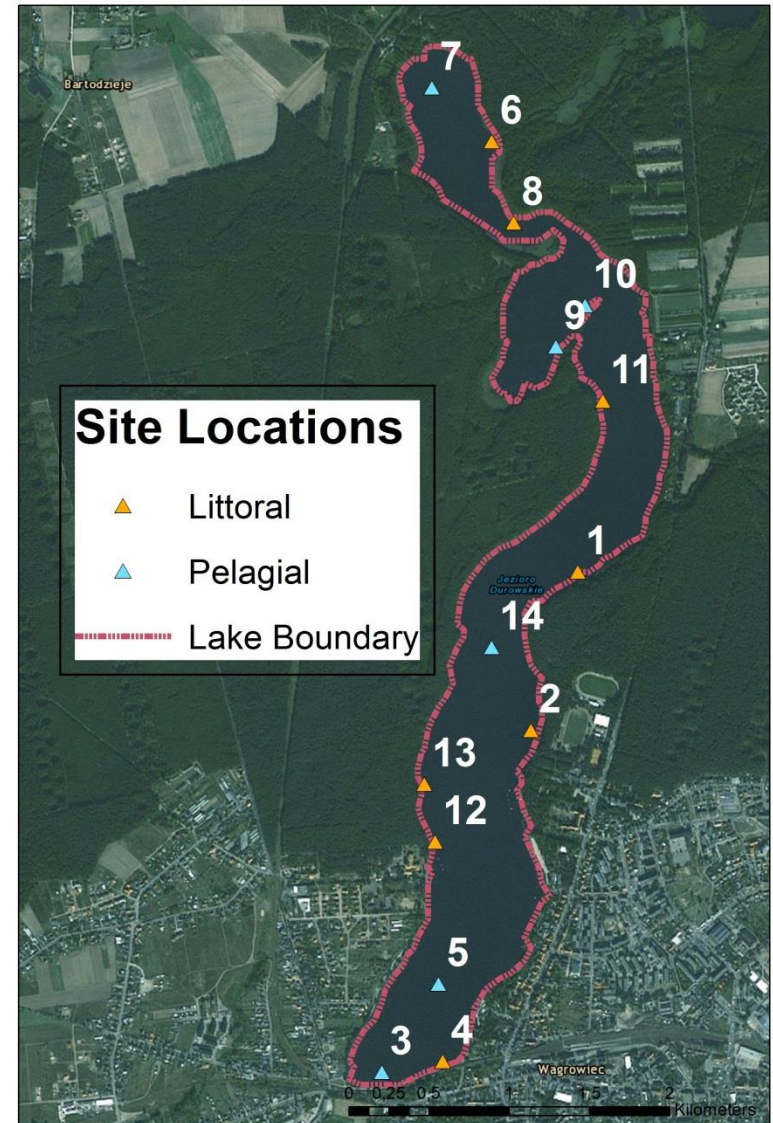
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## Lake Durowskie

Surface Area: 143,7 ha

Max Depth: 14,6 m

Catchment Area: 236,1 km<sup>2</sup>





Introduction

Methods and Material

Results

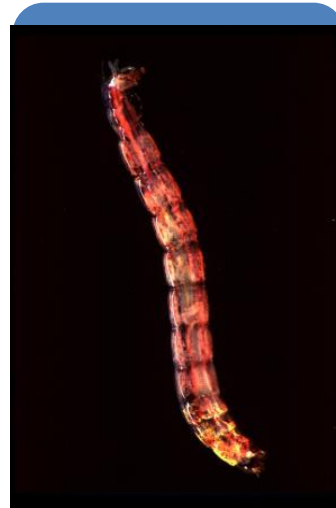
Molanna sp.  
(Molannidae)

*Caenidae sp.*  
(Ephemeroptera)

*Bithynia tentaculata* (L.)  
(Gastropoda)

Chironomidae  
Larvae  
(Diptera)

Mosquito  
Larvae  
(Culicidae)



Very Good

Good

Moderate

Poor

Bad

Classification of Water Quality

Introduction

Methods and Material

Results

# Sampling

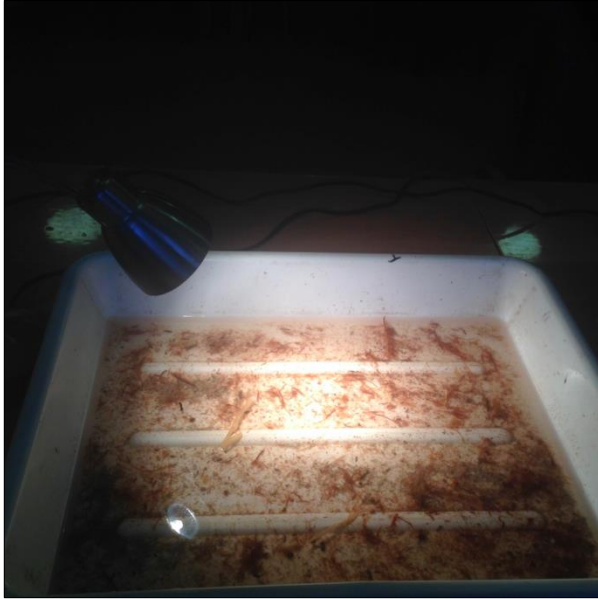


7/10/2015

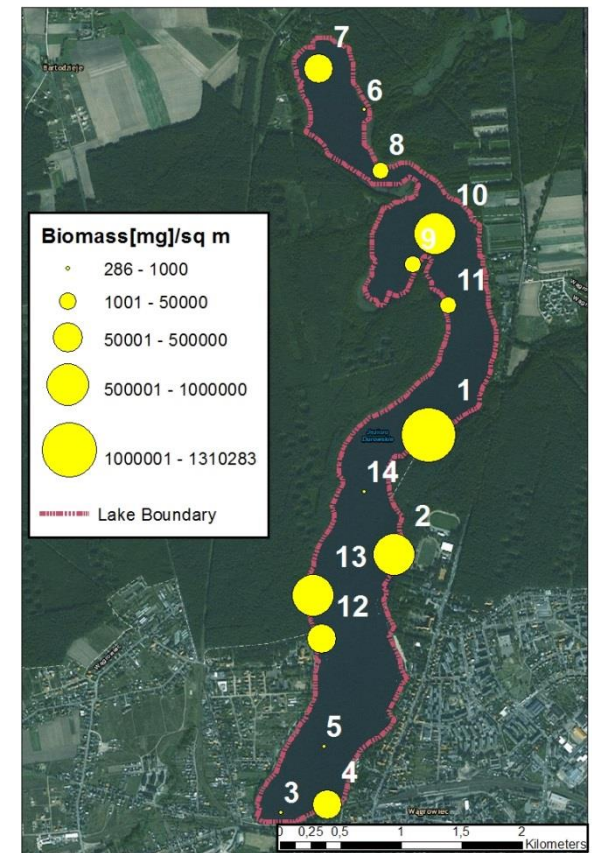
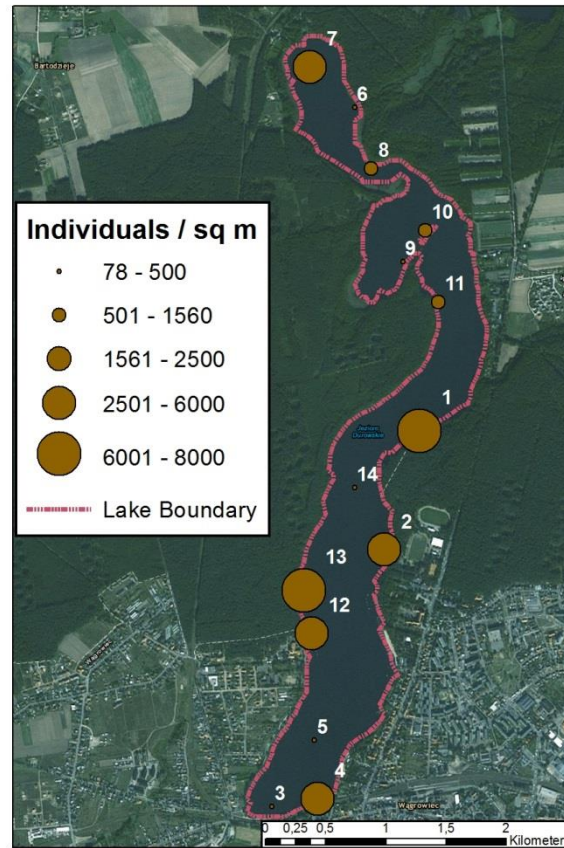
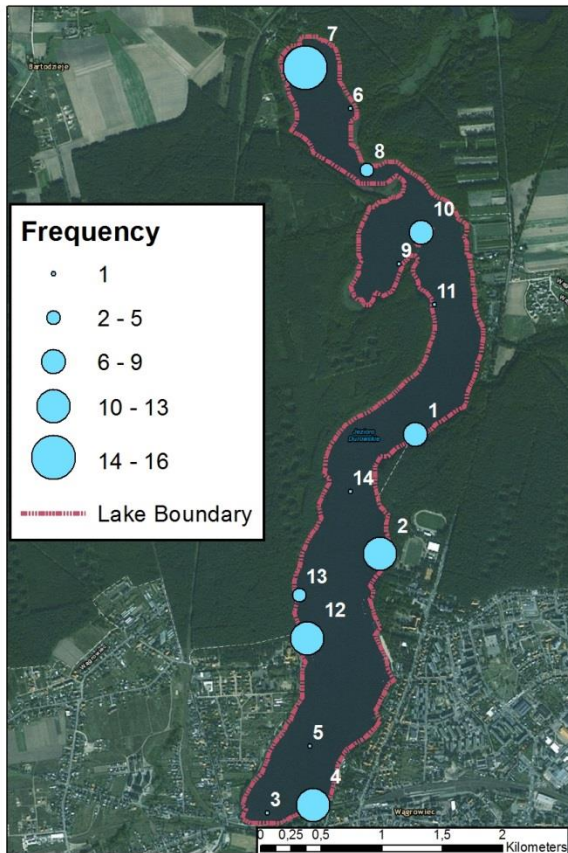
Macroinvertebrates



# Lab Analysis

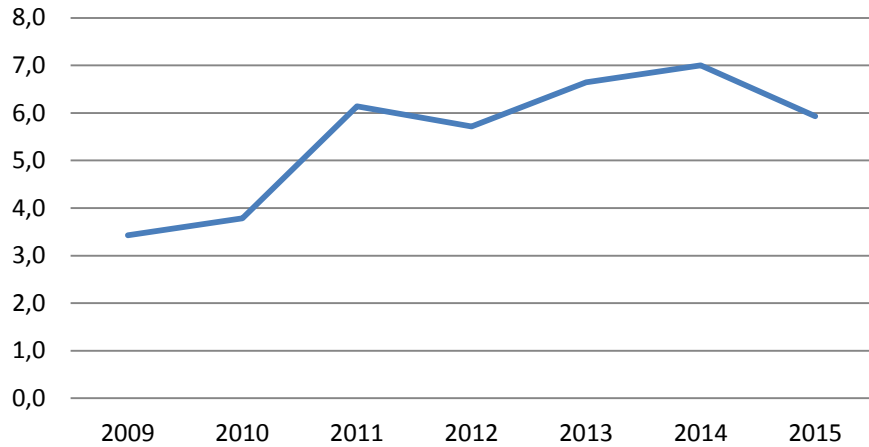


## 2015 Sampling Results

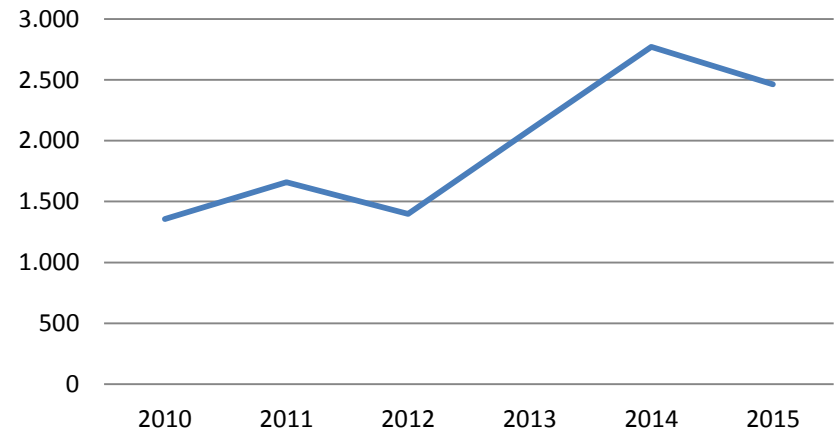




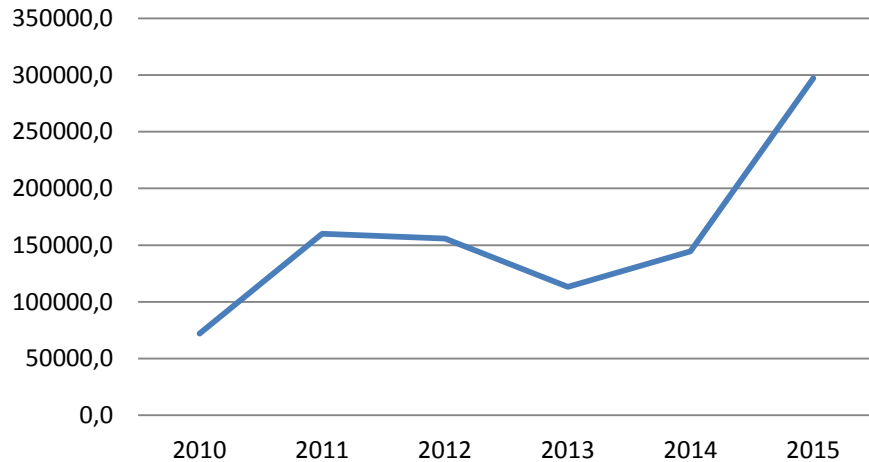
**Frequency (2009 – 2015)**



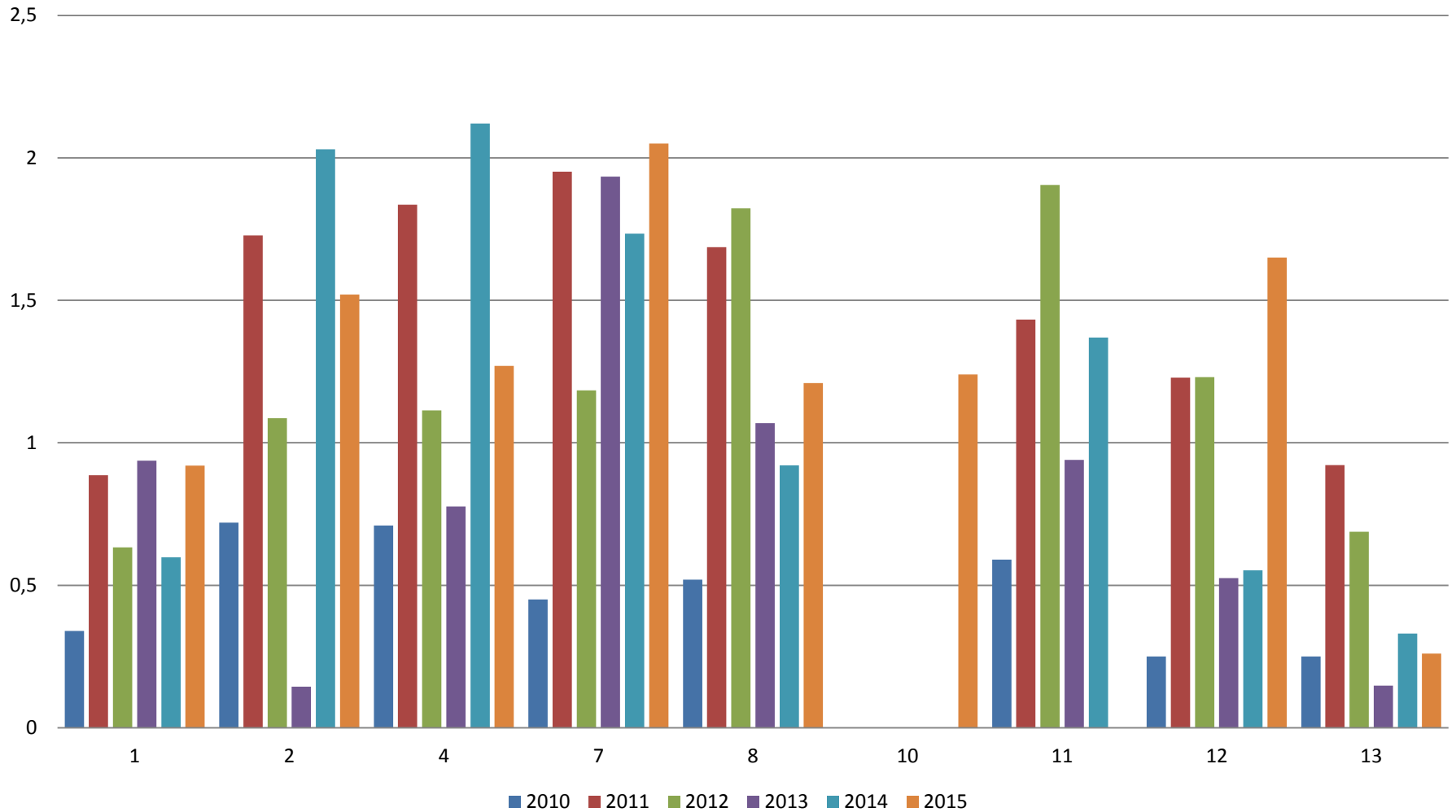
**Individuals/m<sup>2</sup> (2010 – 2015)**



**Biomass [mg]/ m<sup>2</sup> (2010 – 2015)**

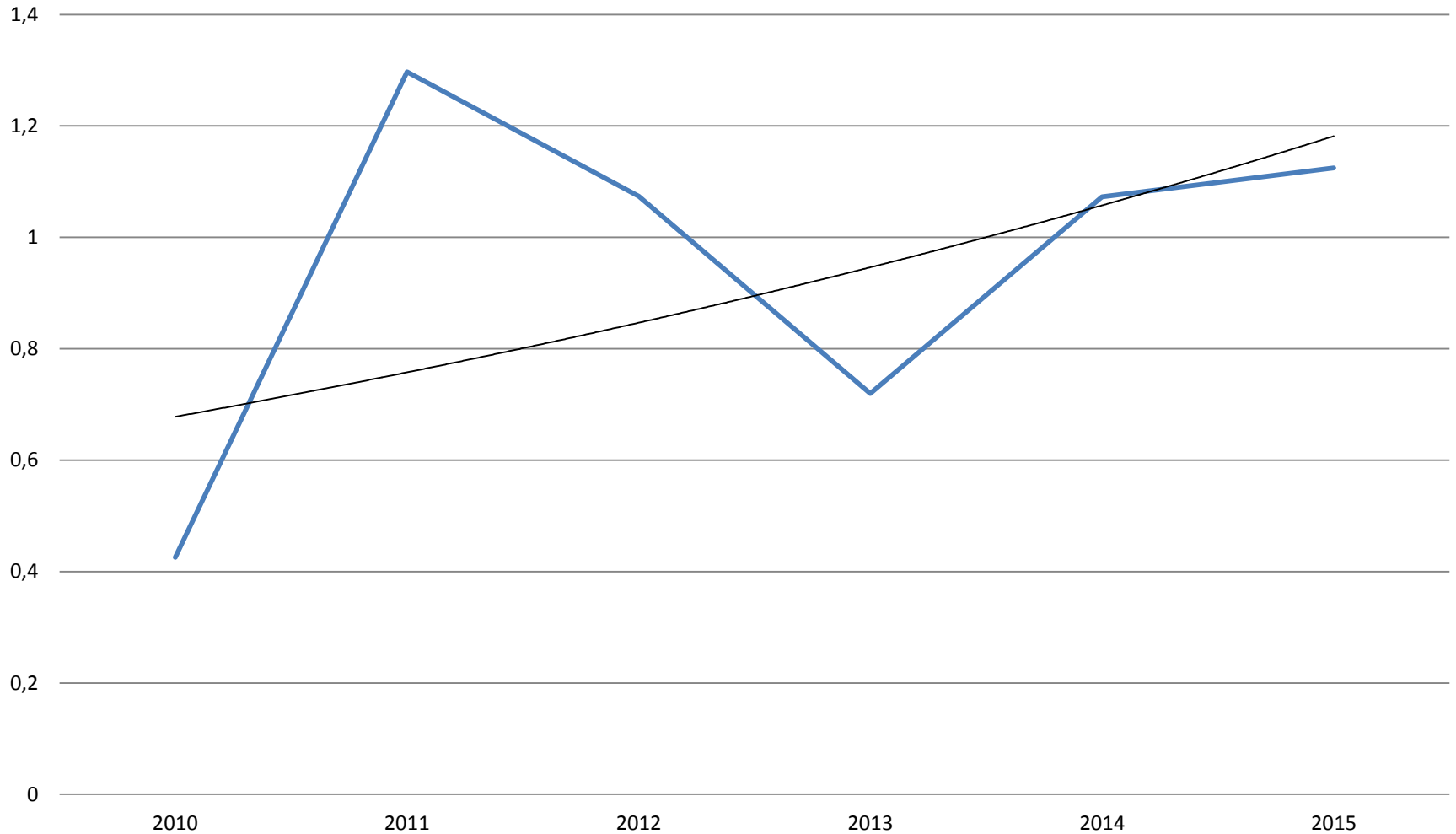


## Shannon-Wiener-Index

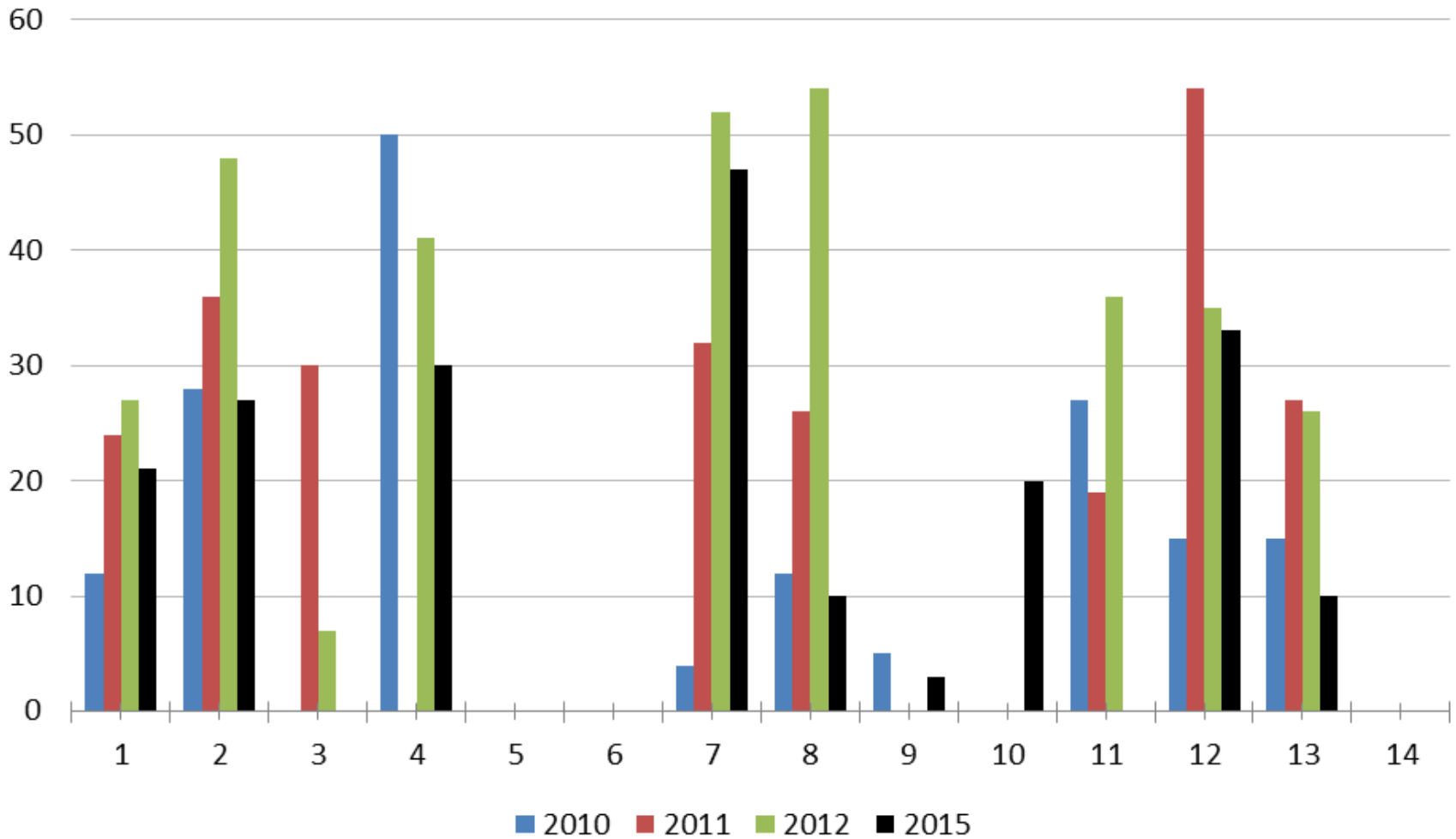




### Mean Shannon-Wiener-Index (2010-2015)

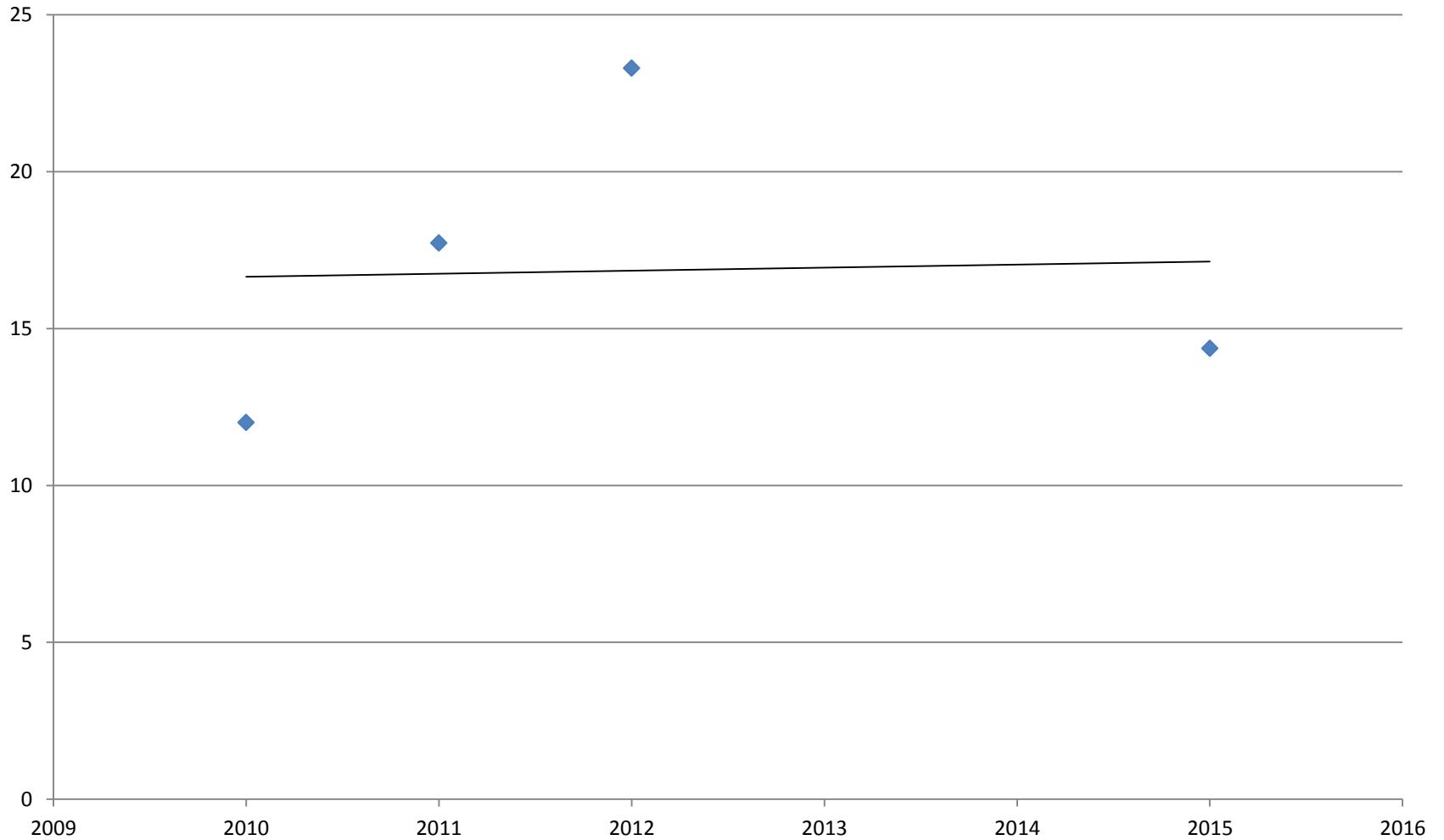


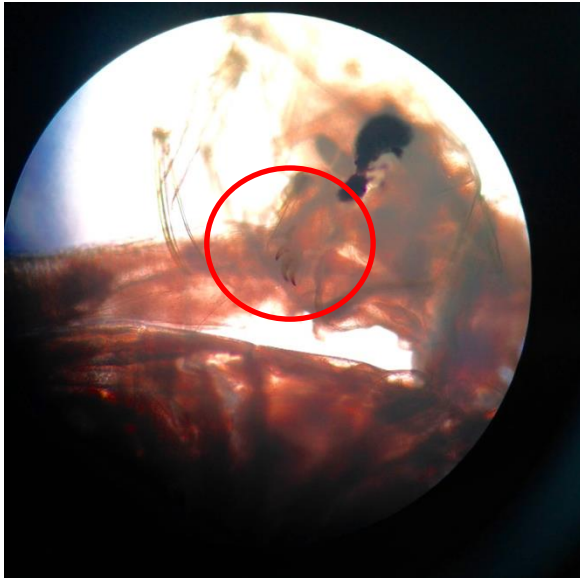
## BMWP-PL



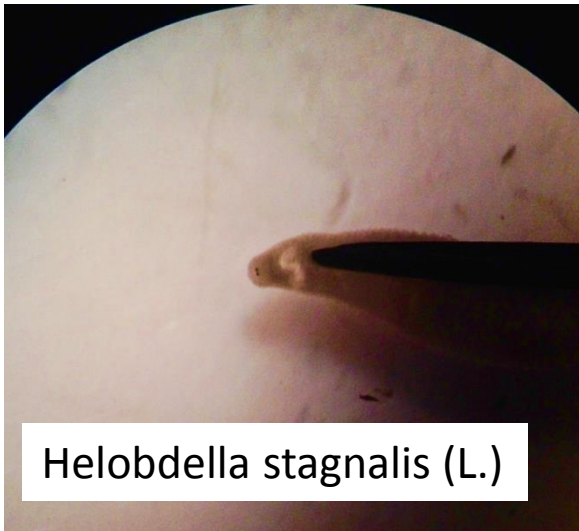


### Mean BMWP-PL





Chaoborus  
flavicans  
(Meig.)



Helobdella stagnalis (L.)



Viviparus Viviparus (L.)



# Conclusions

- There was a decrease in frequency and individuals
- Biomass increased due to abundant muscle population
- **Station 1:** Approx. 1.3kg of *Bilvalvia* was found indicating very good water quality
- **Station 2:** New species, *Planorbis Planorbis* (L.), was found indicating poor water quality
- **Stations 4 & 7:** *Viviparus Viviparus* (L.) was found indicating very good water quality
- **Station 12:** *Molana Sp.* was found indicating very good water quality

