

Length-weight relationship of *Barbatula barbatula*  
 from Slovenia, sampled from 21.04.2010 to 22.10.2020  
 (n = 436, length range from 4.30 cm to 13.60 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 20.01.2021
- Country: SVN
- Species: *Barbatula barbatula*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 21.04.2010
- Sampled to: 22.10.2020
- n: 436
- L min [cm]: 4.30
- L max [cm]: 13.60
- W min [g]: 1.00
- W max [g]: 27.00
- Data transformation: natural logarithm
- a: 0.0110113
- b: 2.8921907

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3781 -0.0880  0.0099  0.0792  0.3956
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.5088     0.0498   -90.6   <2e-16 ***
## ln_l_x         2.8922     0.0258   112.1   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 434 degrees of freedom
## Multiple R-squared:  0.967, Adjusted R-squared:  0.967
## F-statistic: 1.26e+04 on 1 and 434 DF, p-value: <2e-16
```

### ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	226.174965	226.17496547	12570.7	1.43279e-322
Residuals	434	7.808629	0.01799223	NA	NA

Visualization

