

Length-weight relationship of *Barbus balcanicus*
 from Slovenia, sampled from 20.04.2010 to 10.11.2020
 (n = 5299, length range from 4.40 cm to 43.60 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 20.01.2021
- Country: SVN
- Species: *Barbus balcanicus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 10.11.2020
- n: 5299
- L min [cm]: 4.40
- L max [cm]: 43.60
- W min [g]: 1.00
- W max [g]: 1159.00
- Data transformation: natural logarithm
- a: 0.0110308
- b: 3.0024169

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7904 -0.0683  0.0017  0.0707  0.6197
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.50706    0.01582   -285 <2e-16 ***
## ln_l_x       3.00242    0.00617    486 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.118 on 5297 degrees of freedom
## Multiple R-squared:  0.978, Adjusted R-squared:  0.978
## F-statistic: 2.36e+05 on 1 and 5297 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	3292.27323	3.292273e+03	236462	0
Residuals	5297	73.75043	1.392306e-02	NA	NA

Visualization

