

Length-weight relationship of *Barbus barbuis*
 from Slovenia, sampled from 20.04.2010 to 17.09.2020
 (n = 5019, length range from 4.40 cm to 80.50 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 18.01.2021
- Country: SVN
- Species: *Barbus barbuis*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 17.09.2020
- n: 5019
- L min [cm]: 4.40
- L max [cm]: 80.50
- W min [g]: 1.00
- W max [g]: 4450.00
- Data transformation: natural logarithm
- a: 0.0094779
- b: 2.9898700

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.1346 -0.0663 -0.0016  0.0669  0.7024
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.65879    0.01014   -460 <2e-16 ***
## ln_l_x       2.98987    0.00324    923 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.117 on 5017 degrees of freedom
## Multiple R-squared:  0.994, Adjusted R-squared:  0.994
## F-statistic: 8.52e+05 on 1 and 5017 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	11732.64302	1.173264e+04	851782.5	0
Residuals	5017	69.10528	1.377422e-02	NA	NA

Visualization

