

Length-weight relationship of *Barbus plebejus*
from Slovenia, sampled from 15.05.2012 to 20.08.2020
(n = 1138, length range from 4.30 cm to 54.10 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 18.01.2021
- Country: SVN
- Species: *Barbus plebejus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 15.05.2012
- Sampled to: 20.08.2020
- n: 1138
- L min [cm]: 4.30
- L max [cm]: 54.10
- W min [g]: 1.00
- W max [g]: 1960.00
- Data transformation: natural logarithm
- a: 0.0106281
- b: 3.0028637

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4823 -0.0807 -0.0072  0.0710  0.4561
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.54426    0.01834   -248    <2e-16 ***
## ln_l_x       3.00286    0.00628    478    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.115 on 1136 degrees of freedom
## Multiple R-squared:  0.995, Adjusted R-squared:  0.995
## F-statistic: 2.29e+05 on 1 and 1136 DF, p-value: <2e-16
```

ANOVA:

```
##              Df  Sum Sq  Mean Sq  F value Pr(>F)
## ln_l_x         1 3013.367 3.013367e+03 228669.7    0
## Residuals 1136   14.970 1.317782e-02      NA     NA
```

Visualization

