

Length-weight relationship of *Austropotamobius torrentium*  
from Slovenia, sampled from 14.08.2019 to 28.11.2020  
(n = 279, length range from 2.17 cm to 5.36 cm,  
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 20.01.2021
- Country: SVN
- Species: *Austropotamobius torrentium*
- Length type: CLR (biometry\_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 14.08.2019
- Sampled to: 28.11.2020
- n: 279
- L min [cm]: 2.17
- L max [cm]: 5.36
- W min [g]: 3.30
- W max [g]: 55.00
- Data transformation: natural logarithm
- a: 0.2787852
- b: 3.1351608

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3306 -0.0800  0.0013  0.0714  0.3229
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.2773     0.0581   -22.0   <2e-16 ***
## ln_l_x         3.1352     0.0445    70.4   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.108 on 277 degrees of freedom
## Multiple R-squared:  0.947, Adjusted R-squared:  0.947
## F-statistic: 4.96e+03 on 1 and 277 DF, p-value: <2e-16
```

### ANOVA:

```
##              Df    Sum Sq   Mean Sq F value    Pr(>F)
## ln_l_x         1 58.331632 58.33163228 4960.91 7.448766e-179
## Residuals    277  3.257036  0.01175825      NA      NA
```

## Visualization

