

Length-weight relationship of *Austropotamobius pallipes* from Slovenia, sampled from 09.10.2019 to 08.07.2024 (n = 393, length range from 0.79 cm to 5.33 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Austropotamobius pallipes*
- Length type: CLR (biometry_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 09.10.2019
- Sampled to: 08.07.2024
- n: 393
- L min [cm]: 0.79
- L max [cm]: 5.33
- W min [g]: 0.13
- W max [g]: 54.40
- Data transformation: natural logarithm
- a: 0.2408556
- b: 3.1469459

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8104 -0.1019 -0.0031  0.1095  0.8147
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.4236     0.0229   -62.1   <2e-16 ***
## ln_l_x         3.1469     0.0193   163.4   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.177 on 391 degrees of freedom
## Multiple R-squared:  0.986, Adjusted R-squared:  0.986
## F-statistic: 2.67e+04 on 1 and 391 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 840.63107 840.63106847 26714.41    0
## Residuals    391  12.30372   0.03146733     NA    NA
```

Visualization

