

Length-weight relationship of *Faxonius limosus* from Slovenia, sampled from 17.04.2020 to 28.03.2024 (n = 919, length range from 2.63 cm to 10.95 cm, specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 28.11.2024
- Country: SVN
- Species: *Faxonius limosus*
- Length type: TL (biometry_id = 86)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.04.2020
- Sampled to: 28.03.2024
- n: 919
- L min [cm]: 2.63
- L max [cm]: 10.95
- W min [g]: 0.30
- W max [g]: 42.55
- Data transformation: natural logarithm
- a: 0.0148279
- b: 3.3221606

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6712 -0.0794 -0.0037  0.0821  0.6994
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.2112     0.0278   -151    <2e-16 ***
## ln_l_x         3.3222     0.0145    228    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.128 on 917 degrees of freedom
## Multiple R-squared:  0.983, Adjusted R-squared:  0.983
## F-statistic: 5.22e+04 on 1 and 917 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 858.34588 858.3458356 52207.61    0
## Residuals  917  15.07641  0.01644101    NA    NA
```

Visualization

