

Length-weight relationship of *Faxonius limosus* from Slovenia, sampled from 23.07.2019 to 18.10.2024 (n = 12637, length range from 1.00 cm to 5.56 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Faxonius limosus*
- Length type: CLR (biometry_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 23.07.2019
- Sampled to: 18.10.2024
- n: 12637
- L min [cm]: 1.00
- L max [cm]: 5.56
- W min [g]: 0.15
- W max [g]: 49.29
- Data transformation: natural logarithm
- a: 0.2246837
- b: 3.1372940

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8303 -0.0857  0.0030  0.0870  0.8868
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -1.49306    0.00457   -327    <2e-16 ***
## ln_l_x       3.13729    0.00400    784    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.13 on 12635 degrees of freedom
## Multiple R-squared:  0.98,    Adjusted R-squared:  0.98
## F-statistic: 6.14e+05 on 1 and 12635 DF,  p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 10424.9100 1.042491e+04 614349.7      0
## Residuals 12635   214.4035 1.696902e-02      NA      NA
```

Visualization

