

Length-weight relationship of *Pacifastacus leniusculus* from Slovenia, sampled from 21.07.2020 to 18.10.2024 (n = 561, length range from 1.04 cm to 6.53 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Pacifastacus leniusculus*
- Length type: CLR (biometry_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 21.07.2020
- Sampled to: 18.10.2024
- n: 561
- L min [cm]: 1.04
- L max [cm]: 6.53
- W min [g]: 0.26
- W max [g]: 86.75
- Data transformation: natural logarithm
- a: 0.2215026
- b: 3.0867717

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8718 -0.1123 -0.0149  0.1065  0.8754
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.5073     0.0162   -93.3   <2e-16 ***
## ln_l_x         3.0868     0.0152   203.0   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.167 on 559 degrees of freedom
## Multiple R-squared:  0.987, Adjusted R-squared:  0.987
## F-statistic: 4.12e+04 on 1 and 559 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 1149.49584 1.149496e+03 41218.39      0
## Residuals 559    15.58936 2.788794e-02      NA      NA
```

Visualization

