

Length-weight relationship of *Pontastacus leptodactylus* from Slovenia, sampled from 03.09.2019 to 15.10.2024 (n = 989, length range from 3.22 cm to 9.67 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Pontastacus leptodactylus*
- Length type: CLR (biometry_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 03.09.2019
- Sampled to: 15.10.2024
- n: 989
- L min [cm]: 3.22
- L max [cm]: 9.67
- W min [g]: 7.25
- W max [g]: 249.00
- Data transformation: natural logarithm
- a: 0.2106389
- b: 3.0502100

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5469 -0.0557 -0.0063  0.0515  0.7557
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.5576     0.0402   -38.7   <2e-16 ***
## ln_l_x         3.0502     0.0218   139.8   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.105 on 987 degrees of freedom
## Multiple R-squared:  0.952, Adjusted R-squared:  0.952
## F-statistic: 1.95e+04 on 1 and 987 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 215.48065 215.4806488 19530.03    0
## Residuals  987  10.88987   0.0110333      NA    NA
```

Visualization

