

Length-weight relationship of *Atherina boyeri*
from Slovenia, sampled from 16.01.1997 to 10.10.2023
(n = 379, length range from 5.90 cm to 10.90 cm,
specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Atherina boyeri*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 16.01.1997
- Sampled to: 10.10.2023
- n: 379
- L min [cm]: 5.90
- L max [cm]: 10.90
- W min [g]: 1.17
- W max [g]: 9.20
- Data transformation: natural logarithm
- a: 0.0044387
- b: 3.1774669

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4661 -0.0493  0.0203  0.0728  0.2548
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.4174      0.1262  -42.9   <2e-16 ***
## ln_l_x         3.1775      0.0607   52.4   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.116 on 377 degrees of freedom
## Multiple R-squared:  0.879, Adjusted R-squared:  0.879
## F-statistic: 2.74e+03 on 1 and 377 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq F value    Pr(>F)
## ln_l_x         1 37.068491 37.06849069  2744.5 3.927707e-175
## Residuals  377  5.091938  0.01350647      NA      NA
```

Visualization

