

Length-weight relationship of *Pagellus bogaraveo*
from Slovenia, sampled from 18.09.1995 to 07.12.2023
(n = 146, length range from 8.70 cm to 18.50 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Pagellus bogaraveo*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 18.09.1995
- Sampled to: 07.12.2023
- n: 146
- L min [cm]: 8.70
- L max [cm]: 18.50
- W min [g]: 9.30
- W max [g]: 85.00
- Data transformation: natural logarithm
- a: 0.0192830
- b: 2.8906456

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3255 -0.0416  0.0009  0.0456  0.2197
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.9485     0.1514   -26.1   <2e-16 ***
## ln_l_x         2.8906     0.0611    47.3   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0739 on 144 degrees of freedom
## Multiple R-squared:  0.94,    Adjusted R-squared:  0.939
## F-statistic: 2.24e+03 on 1 and 144 DF,  p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 12.2246519 12.224651870 2239.082 1.211828e-89
## Residuals 144  0.7861927  0.005459671      NA      NA
```

Visualization

