

Length-weight relationship of *Mullus barbatus* from Slovenia, sampled from 24.04.1995 to 29.05.2024 (n = 3349, length range from 4.70 cm to 26.00 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Mullus barbatus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 24.04.1995
- Sampled to: 29.05.2024
- n: 3349
- L min [cm]: 4.70
- L max [cm]: 26.00
- W min [g]: 0.76
- W max [g]: 225.00
- Data transformation: natural logarithm
- a: 0.0073800
- b: 3.1915085

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5961 -0.0625 -0.0005  0.0652  0.5647
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.9090     0.0274   -179    <2e-16 ***
## ln_l_x         3.1915     0.0105    303    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.103 on 3347 degrees of freedom
## Multiple R-squared:  0.965, Adjusted R-squared:  0.965
## F-statistic: 9.17e+04 on 1 and 3347 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1  978.24169  978.24169324  91677.29      0
## Residuals 3347   35.71413    0.01067049      NA      NA
```

Visualization

