

Length-weight relationship of *Mullus barbatus* from Slovenia, sampled from 24.04.1995 to 21.10.2020 (n = 2242, 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: 13.01.2021
- 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: 21.10.2020
- n: 2242
- 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: 0.0070569
- b: 3.2091168

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4060 -0.0655 -0.0024  0.0652  0.4485
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.9538     0.0330   -150    <2e-16 ***
## ln_l_x         3.2091     0.0127    253    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.104 on 2240 degrees of freedom
## Multiple R-squared:  0.966, Adjusted R-squared:  0.966
## F-statistic: 6.39e+04 on 1 and 2240 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1  690.1219  690.1219072  63939.83      0
## Residuals 2240   24.1770    0.0107933      NA     NA
```

Visualization

