

Length-weight relationship of *Trachurus mediterraneus* from Slovenia, sampled from 16.06.1996 to 22.10.2024 (n = 6211, length range from 2.20 cm to 48.80 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Trachurus mediterraneus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 16.06.1996
- Sampled to: 22.10.2024
- n: 6211
- L min [cm]: 2.20
- L max [cm]: 48.80
- W min [g]: 0.11
- W max [g]: 797.00
- Data transformation: natural logarithm
- a: 0.0093124
- b: 2.9556610

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8905 -0.0539 -0.0009  0.0520  0.7710
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.67641    0.00906   -516   <2e-16 ***
## ln_l_x       2.95566    0.00349    846   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0901 on 6209 degrees of freedom
## Multiple R-squared:  0.991, Adjusted R-squared:  0.991
## F-statistic: 7.16e+05 on 1 and 6209 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 5821.61808 5.821618e+03 716402.8      0
## Residuals 6209  50.45545 8.126180e-03      NA      NA
```

Visualization

