

Length-weight relationship of *Trachurus trachurus*
from Slovenia, sampled from 22.08.1995 to 12.12.2018
(n = 310, length range from 4.90 cm to 30.80 cm,
specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 14.01.2021
- Country: SVN
- Species: *Trachurus trachurus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 22.08.1995
- Sampled to: 12.12.2018
- n: 310
- L min [cm]: 4.90
- L max [cm]: 30.80
- W min [g]: 1.10
- W max [g]: 211.00
- Data transformation: natural logarithm
- a: 0.0099461
- b: 2.9419612

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3347 -0.0599 -0.0081  0.0521  0.2727
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.6106     0.0571   -80.7   <2e-16 ***
## ln_l_x         2.9420     0.0234   125.5   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0914 on 308 degrees of freedom
## Multiple R-squared:  0.981, Adjusted R-squared:  0.981
## F-statistic: 1.58e+04 on 1 and 308 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	131.784100	1.317841e+02	15763.7	1.461486e-266
Residuals	308	2.574872	8.359975e-03	NA	NA

Visualization

