

# Length-weight relationship of *Solea solea* from Slovenia, sampled from 20.12.1995 to 20.10.2024 (n = 136, length range from 5.40 cm to 40.50 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Solea solea*
- Length type: TLmax (biometry\_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.12.1995
- Sampled to: 20.10.2024
- n: 136
- L min [cm]: 5.40
- L max [cm]: 40.50
- W min [g]: 1.60
- W max [g]: 760.00
- Data transformation: natural logarithm
- a: 0.0084410
- b: 3.0306133

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4195 -0.1006  0.0097  0.1021  0.3240
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.7747      0.0964  -49.5   <2e-16 ***
## ln_l_x         3.0306      0.0295  102.6   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.141 on 134 degrees of freedom
## Multiple R-squared:  0.987, Adjusted R-squared:  0.987
## F-statistic: 1.05e+04 on 1 and 134 DF, p-value: <2e-16
```

### ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 209.755099 209.75509875 10525.16 3.153936e-129
## Residuals 134    2.670474    0.01992891      NA      NA
```

## Visualization

