

Length-weight relationship of *Scomber scombrus* from Slovenia, sampled from 21.08.1996 to 08.08.2020 (n = 348, length range from 11.20 cm to 34.20 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 14.01.2021
- Country: SVN
- Species: *Scomber scombrus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 21.08.1996
- Sampled to: 08.08.2020
- n: 348
- L min [cm]: 11.20
- L max [cm]: 34.20
- W min [g]: 9.30
- W max [g]: 395.00
- Data transformation: natural logarithm
- a: 0.0025784
- b: 3.3765222

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.28513 -0.03946  0.00858  0.04902  0.15925
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.9606     0.0531   -112    <2e-16 ***
## ln_l_x         3.3765     0.0166    204    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0711 on 346 degrees of freedom
## Multiple R-squared:  0.992, Adjusted R-squared:  0.992
## F-statistic: 4.15e+04 on 1 and 346 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq F value Pr(>F)
## ln_l_x         1 209.33231 2.093323e+02  41451      0
## Residuals    346   1.74734 5.050115e-03      NA     NA
```

Visualization

