

Length-weight relationship of *Esox lucius*
 from Slovenia, sampled from 17.05.2011 to 23.09.2020
 (n = 609, length range from 10.20 cm to 89.40 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Esox lucius*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.05.2011
- Sampled to: 23.09.2020
- n: 609
- L min [cm]: 10.20
- L max [cm]: 89.40
- W min [g]: 10.00
- W max [g]: 7021.00
- Data transformation: natural logarithm
- a: 0.0052976
- b: 3.0595437

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5311 -0.0769 -0.0090  0.0734  0.5282
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -5.2405     0.0398   -132 <2e-16 ***
## ln_l_x         3.0595     0.0119    257 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 607 degrees of freedom
## Multiple R-squared:  0.991, Adjusted R-squared:  0.991
## F-statistic: 6.61e+04 on 1 and 607 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 1191.84349  1.191843e+03 66055.49      0
## Residuals    607   10.95214  1.804306e-02      NA      NA
```

Visualization

