

Length-weight relationship of *Esox lucius* from Slovenia, sampled from 17.05.2011 to 09.07.2024 (n = 922, 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: 06.11.2024
- 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: 09.07.2024
- n: 922
- 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: 0.0049112
- b: 3.0860087

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7504 -0.0768 -0.0104  0.0730  0.8710
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.3162     0.0351   -152    <2e-16 ***
## ln_l_x         3.0860     0.0103    299    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 920 degrees of freedom
## Multiple R-squared:  0.99,    Adjusted R-squared:  0.99
## F-statistic: 8.91e+04 on 1 and 920 DF,  p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 1597.51365 1.597514e+03 89137.15      0
## Residuals    920   16.48822 1.792197e-02      NA      NA
```

Visualization

