

Length-weight relationship of *Sander lucioperca* from Slovenia, sampled from 20.04.2010 to 07.09.2023 (n = 774, length range from 4.10 cm to 80.50 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Sander lucioperca*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 07.09.2023
- n: 774
- L min [cm]: 4.10
- L max [cm]: 80.50
- W min [g]: 0.60
- W max [g]: 6025.00
- Data transformation: natural logarithm
- a: 0.0077646
- b: 2.9991570

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7187 -0.0741 -0.0053  0.0685  0.8552
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.85818    0.01792   -271    <2e-16 ***
## ln_l_x       2.99916    0.00646    464    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.133 on 772 degrees of freedom
## Multiple R-squared:  0.996, Adjusted R-squared:  0.996
## F-statistic: 2.16e+05 on 1 and 772 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq F value Pr(>F)
## ln_l_x        1 3831.91348 3831.9134814 215728    0
## Residuals 772   13.71281   0.0177627    NA    NA
```

Visualization

