

Length-weight relationship of *Silurus glanis* from Slovenia, sampled from 20.04.2010 to 27.08.2024 (n = 180, length range from 10.80 cm to 150.00 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Silurus glanis*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 27.08.2024
- n: 180
- L min [cm]: 10.80
- L max [cm]: 150.00
- W min [g]: 11.00
- W max [g]: 23000.00
- Data transformation: natural logarithm
- a: 0.0099095
- b: 2.8749520

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7734 -0.1023 -0.0183  0.0810  0.6974
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.6143     0.0932   -49.5   <2e-16 ***
## ln_l_x         2.8750     0.0263   109.5   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.198 on 178 degrees of freedom
## Multiple R-squared:  0.985, Adjusted R-squared:  0.985
## F-statistic: 1.2e+04 on 1 and 178 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq    Mean Sq  F value      Pr(>F)
## ln_l_x         1 469.638294 469.6382942 11992.93 2.970626e-165
## Residuals 178    6.970408    0.0391596      NA      NA
```

Visualization

