

Length-weight relationship of *Chelidonichthys lastoviza*
 from Slovenia, sampled from 12.10.1995 to 19.11.2024
 (n = 162, length range from 8.50 cm to 27.70 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 17.02.2025
- Country: SVN
- Species: *Chelidonichthys lastoviza*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 12.10.1995
- Sampled to: 19.11.2024
- n: 162
- L min [cm]: 8.50
- L max [cm]: 27.70
- W min [g]: 8.20
- W max [g]: 237.00
- Data transformation: natural logarithm
- a: 0.0133615
- b: 2.9697830

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.22555 -0.06587  0.00051  0.05806  0.24847
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.3154      0.0827   -52.2   <2e-16 ***
## ln_l_x         2.9698      0.0299    99.2   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0895 on 160 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 9.83e+03 on 1 and 160 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value      Pr(>F)
## ln_l_x         1 78.801982 78.80198233 9833.089 1.433116e-145
## Residuals    160  1.282234  0.00801396      NA      NA
```

Visualization

