

Length-weight relationship of *Deltentosteus quadrimaculatus* from Slovenia, sampled from 24.04.1995 to 07.12.2023 (n = 587, length range from 3.20 cm to 9.60 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Deltentosteus quadrimaculatus*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 24.04.1995
- Sampled to: 07.12.2023
- n: 587
- L min [cm]: 3.20
- L max [cm]: 9.60
- W min [g]: 0.16
- W max [g]: 8.46
- Data transformation: natural logarithm
- a: 0.0043320
- b: 3.3522798

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4583 -0.0668 -0.0031  0.0799  0.3833
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.4417     0.0666   -81.7   <2e-16 ***
## ln_l_x         3.3523     0.0328   102.0   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.116 on 585 degrees of freedom
## Multiple R-squared:  0.947, Adjusted R-squared:  0.947
## F-statistic: 1.04e+04 on 1 and 585 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 140.244880 140.24487953 10414.85    0
## Residuals 585    7.877526   0.01346586      NA    NA
```

Visualization

