

Length-weight relationship of *Rhodeus amarus*
from Slovenia, sampled from 14.10.2010 to 29.07.2021
(n = 1198, length range from 1.70 cm to 12.60 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.02.2025
- Country: SVN
- Species: *Rhodeus amarus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 14.10.2010
- Sampled to: 29.07.2021
- n: 1198
- L min [cm]: 1.70
- L max [cm]: 12.60
- W min [g]: 0.10
- W max [g]: 21.72
- Data transformation: natural logarithm
- a: 0.0109666
- b: 3.0675378

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8365 -0.0868 -0.0056  0.0927  0.7772
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.5129     0.0191   -236   <2e-16 ***
## ln_l_x         3.0675     0.0132    232   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.165 on 1196 degrees of freedom
## Multiple R-squared:  0.978, Adjusted R-squared:  0.978
## F-statistic: 5.37e+04 on 1 and 1196 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 1459.681 1.459681e+03 53709.64    0
## Residuals 1196   32.504 2.717726e-02    NA    NA
```

Visualization

