

Length-weight relationship of *Scardinius erythrophthalmus*
 from Slovenia, sampled from 17.05.2011 to 11.10.2023
 (n = 893, length range from 3.60 cm to 37.10 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Scardinius erythrophthalmus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.05.2011
- Sampled to: 11.10.2023
- n: 893
- L min [cm]: 3.60
- L max [cm]: 37.10
- W min [g]: 0.50
- W max [g]: 889.00
- Data transformation: natural logarithm
- a: 0.0062647
- b: 3.2649670

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6333 -0.0836 -0.0088  0.0703  0.7362
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.0728     0.0287   -177 <2e-16 ***
## ln_l_x         3.2650     0.0108    302 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.145 on 891 degrees of freedom
## Multiple R-squared:  0.99, Adjusted R-squared:  0.99
## F-statistic: 9.11e+04 on 1 and 891 DF, p-value: <2e-16
```

ANOVA:

```
##           Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x     1 1909.60306 1.909603e+03 91058.99     0
## Residuals 891  18.68521 2.097105e-02      NA     NA
```

Visualization

