

Length-weight relationship of *Rutilus rutilus*
 from Slovenia, sampled from 20.04.2010 to 11.09.2024
 (n = 10324, length range from 2.00 cm to 34.30 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Rutilus rutilus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 11.09.2024
- n: 10324
- L min [cm]: 2.00
- L max [cm]: 34.30
- W min [g]: 0.10
- W max [g]: 556.60
- Data transformation: natural logarithm
- a: 0.0069223
- b: 3.1899426

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8579 -0.0635 -0.0031  0.0615  0.8968
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.97301    0.00624   -796    <2e-16 ***
## ln_l_x       3.18994    0.00255   1252    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.113 on 10322 degrees of freedom
## Multiple R-squared:  0.993, Adjusted R-squared:  0.993
## F-statistic: 1.57e+06 on 1 and 10322 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq F value Pr(>F)
## ln_l_x         1 20094.4510 2.009445e+04 1567125      0
## Residuals 10322   132.3538 1.282250e-02      NA     NA
```

Visualization

