

Length-weight relationship of *Rutilus virgo*
from Slovenia, sampled from 20.04.2010 to 23.09.2024
(n = 1694, length range from 4.40 cm to 52.50 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Rutilus virgo*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 23.09.2024
- n: 1694
- L min [cm]: 4.40
- L max [cm]: 52.50
- W min [g]: 0.70
- W max [g]: 1900.00
- Data transformation: natural logarithm
- a: 0.0050104
- b: 3.2147190

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9029 -0.0700 -0.0027  0.0692  0.8476
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.29623     0.02044   -259    <2e-16 ***
## ln_l_x       3.21472     0.00682    471    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.129 on 1692 degrees of freedom
## Multiple R-squared:  0.992, Adjusted R-squared:  0.992
## F-statistic: 2.22e+05 on 1 and 1692 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 3705.94716 3.705947e+03 222226.1      0
## Residuals 1692  28.21659 1.667647e-02      NA      NA
```

Visualization

