

Length-weight relationship of *Rutilus virgo*
 from Slovenia, sampled from 20.04.2010 to 13.08.2020
 (n = 1357, length range from 5.00 cm to 52.50 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 20.01.2021
- 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: 13.08.2020
- n: 1357
- L min [cm]: 5.00
- L max [cm]: 52.50
- W min [g]: 1.10
- W max [g]: 1900.00
- Data transformation: natural logarithm
- a: 0.0051723
- b: 3.2019778

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6967 -0.0709 -0.0023  0.0693  0.6269
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.26443    0.02514   -209 <2e-16 ***
## ln_l_x       3.20198    0.00859    373 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.125 on 1355 degrees of freedom
## Multiple R-squared:  0.99,    Adjusted R-squared:  0.99
## F-statistic: 1.39e+05 on 1 and 1355 DF,  p-value: <2e-16
```

ANOVA:

| | Df | Sum Sq | Mean Sq | F value | Pr(>F) |
|-----------|------|------------|--------------|----------|--------|
| ln_l_x | 1 | 2187.04606 | 2.187046e+03 | 139049.1 | 0 |
| Residuals | 1355 | 21.31224 | 1.572859e-02 | NA | NA |

Visualization

