

Length-weight relationship of *Salmo marmoratus*  
 from Slovenia, sampled from 25.05.2011 to 04.09.2020  
 (n = 1301, length range from 5.10 cm to 60.50 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Salmo marmoratus*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.05.2011
- Sampled to: 04.09.2020
- n: 1301
- L min [cm]: 5.10
- L max [cm]: 60.50
- W min [g]: 1.30
- W max [g]: 2383.00
- Data transformation: natural logarithm
- a: 0.0113121
- b: 2.9566359

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7038 -0.0572  0.0045  0.0633  0.4164
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.48188    0.01945   -230 <2e-16 ***
## ln_l_x       2.95664    0.00653    453 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.103 on 1299 degrees of freedom
## Multiple R-squared:  0.994, Adjusted R-squared:  0.994
## F-statistic: 2.05e+05 on 1 and 1299 DF, p-value: <2e-16
```

### ANOVA:

```
##           Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x     1 2180.26395 2.180264e+03 205301.6    0
## Residuals 1299  13.79513 1.061981e-02      NA     NA
```

## Visualization

