

Length-weight relationship of *Carassius carassius*  
 from Slovenia, sampled from 17.05.2011 to 26.09.2019  
 (n = 499, length range from 5.80 cm to 40.60 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Carassius carassius*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.05.2011
- Sampled to: 26.09.2019
- n: 499
- L min [cm]: 5.80
- L max [cm]: 40.60
- W min [g]: 4.10
- W max [g]: 1038.00
- Data transformation: natural logarithm
- a: 0.0219799
- b: 2.9650310

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4283 -0.0630  0.0036  0.0745  0.4804
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.8176     0.0373   -102   <2e-16 ***
## ln_l_x         2.9650     0.0146    202   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.116 on 497 degrees of freedom
## Multiple R-squared:  0.988, Adjusted R-squared:  0.988
## F-statistic: 4.1e+04 on 1 and 497 DF,  p-value: <2e-16
```

### ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 549.800579 549.80057947 40993.96      0
## Residuals 497    6.665638    0.01341175      NA      NA
```

## Visualization

