

Length-weight relationship of *Carassius gibelio* from Slovenia, sampled from 20.04.2010 to 09.07.2024 (n = 923, length range from 3.20 cm to 45.50 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Carassius gibelio*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 09.07.2024
- n: 923
- L min [cm]: 3.20
- L max [cm]: 45.50
- W min [g]: 0.40
- W max [g]: 1784.00
- Data transformation: natural logarithm
- a: 0.0109254
- b: 3.1552447

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8965 -0.0866 -0.0153  0.0799  0.5838
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.51666    0.01932   -234    <2e-16 ***
## ln_l_x       3.15524    0.00726    435    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.145 on 921 degrees of freedom
## Multiple R-squared:  0.995, Adjusted R-squared:  0.995
## F-statistic: 1.89e+05 on 1 and 921 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x        1 3991.49568 3.991496e+03 189042.7      0
## Residuals    921   19.44623 2.111426e-02      NA     NA
```

Visualization

