

Length-weight relationship of *Chondrostoma nasus* from Slovenia, sampled from 18.03.2010 to 23.09.2024 (n = 8382, length range from 2.20 cm to 68.80 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 09.01.2025
- Country: SVN
- Species: *Cyprinus carpio*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 30.08.2012
- Sampled to: 23.09.2024
- n: 242
- L min [cm]: 4.80
- L max [cm]: 90.00
- W min [g]: 1.80
- W max [g]: 17500.00
- Data transformation: natural logarithm
- a: 0.0128649
- b: 3.0889770

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7611 -0.0591  0.0016  0.0684  0.3881
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.3533     0.0348   -125    <2e-16 ***
## ln_l_x         3.0890     0.0122    252    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.132 on 240 degrees of freedom
## Multiple R-squared:  0.996, Adjusted R-squared:  0.996
## F-statistic: 6.37e+04 on 1 and 240 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 1107.037590 1.107038e+03 63694.76 4.457578e-293
## Residuals    240   4.171286 1.738036e-02      NA      NA
```

Visualization

