

Length-weight relationship of *Gobio obtusirostris* from Slovenia, sampled from 20.04.2010 to 07.11.2024 (n = 3836, length range from 2.30 cm to 18.70 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.02.2025
- Country: SVN
- Species: *Gobio obtusirostris*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 07.11.2024
- n: 3836
- L min [cm]: 2.30
- L max [cm]: 18.70
- W min [g]: 0.10
- W max [g]: 64.00
- Data transformation: natural logarithm
- a: 0.0093425
- b: 3.0586756

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8198 -0.0781 -0.0047  0.0790  0.6748
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.67318    0.01476   -317    <2e-16 ***
## ln_l_x       3.05868    0.00652    469    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 3834 degrees of freedom
## Multiple R-squared:  0.983, Adjusted R-squared:  0.983
## F-statistic: 2.2e+05 on 1 and 3834 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 3924.23613 3.924236e+03 220080.4      0
## Residuals 3834   68.36376 1.783092e-02      NA      NA
```

Visualization

