

Length-weight relationship of *Lepomis gibbosus* from Slovenia, sampled from 17.05.2011 to 11.10.2023 (n = 647, length range from 2.10 cm to 19.60 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 08.11.2024
- Country: SVN
- Species: *Lepomis gibbosus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.05.2011
- Sampled to: 11.10.2023
- n: 647
- L min [cm]: 2.10
- L max [cm]: 19.60
- W min [g]: 0.10
- W max [g]: 118.89
- Data transformation: natural logarithm
- a: 0.0125861
- b: 3.1604156

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7320 -0.0726 -0.0011  0.0792  0.4326
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.3752     0.0356   -123    <2e-16 ***
## ln_l_x         3.1604     0.0160    197    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.146 on 645 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 3.9e+04 on 1 and 645 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 833.4993 833.4993443 38998.86      0
## Residuals 645  13.7852   0.0213724      NA     NA
```

Visualization

