

Length-weight relationship of *Lepomis gibbosus*
 from Slovenia, sampled from 17.05.2011 to 05.11.2020
 (n = 446, length range from 2.60 cm to 17.70 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 19.01.2021
- 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: 05.11.2020
- n: 446
- L min [cm]: 2.60
- L max [cm]: 17.70
- W min [g]: 0.19
- W max [g]: 118.89
- Data transformation: natural logarithm
- a: 0.0129615
- b: 3.1569356

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5403 -0.0854 -0.0092  0.0837  0.4109
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.3458     0.0445   -97.8  <2e-16 ***
## ln_l_x         3.1569     0.0200   158.0  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.142 on 444 degrees of freedom
## Multiple R-squared:  0.983, Adjusted R-squared:  0.982
## F-statistic: 2.5e+04 on 1 and 444 DF,  p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	500.805936	500.80593599	24960.98	0
Residuals	444	8.908216	0.02006355	NA	NA

Visualization

