

Length-weight relationship of *Serranus hepatus*
 from Slovenia, sampled from 25.07.1995 to 16.01.2004
 (n = 459, length range from 4.80 cm to 10.20 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 14.01.2021
- Country: SVN
- Species: *Serranus hepatus*
- Length type: SL (biometry_id = 74)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.07.1995
- Sampled to: 16.01.2004
- n: 459
- L min [cm]: 4.80
- L max [cm]: 10.20
- W min [g]: 3.00
- W max [g]: 38.23
- Data transformation: natural logarithm
- a: 0.0277620
- b: 3.0978965

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.25772 -0.05009 -0.00318  0.05116  0.25205
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.5841     0.0552   -64.9   <2e-16 ***
## ln_l_x         3.0979     0.0273   113.6   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0839 on 457 degrees of freedom
## Multiple R-squared:  0.966, Adjusted R-squared:  0.966
## F-statistic: 1.29e+04 on 1 and 457 DF, p-value: <2e-16
```

ANOVA:

```
##           Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x     1 90.848554 90.84853642 12900.65    0
## Residuals 457  3.218271  0.007042168     NA    NA
```

Visualization

