

Length-weight relationship of *Cobitis bilineata*
from Slovenia, sampled from 14.08.2013 to 09.07.2020
(n = 136, length range from 5.20 cm to 11.50 cm,
specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 10.02.2021
- Country: SVN
- Species: *Cobitis bilineata*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 14.08.2013
- Sampled to: 09.07.2020
- n: 136
- L min [cm]: 5.20
- L max [cm]: 11.50
- W min [g]: 1.00
- W max [g]: 10.00
- Data transformation: natural logarithm
- a: 0.0082693
- b: 2.9003143

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4280 -0.0819  0.0050  0.0714  0.3405
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.7952     0.1198  -40.0   <2e-16 ***
## ln_l_x         2.9003     0.0588   49.3   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.134 on 134 degrees of freedom
## Multiple R-squared:  0.948, Adjusted R-squared:  0.947
## F-statistic: 2.43e+03 on 1 and 134 DF, p-value: <2e-16
```

ANOVA:

```
##           Df  Sum Sq  Mean Sq  F value  Pr(>F)
## ln_l_x     1 43.70345 43.70344712 2430.771 9.095411e-88
## Residuals 134  2.40922  0.01797925      NA      NA
```

Visualization

