

Length-weight relationship of *Blicca bjoerkna*
from Slovenia, sampled from 07.08.2011 to 09.07.2024
(n = 406, length range from 4.40 cm to 32.10 cm,
specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Blicca bjoerkna*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 07.08.2011
- Sampled to: 09.07.2024
- n: 406
- L min [cm]: 4.40
- L max [cm]: 32.10
- W min [g]: 1.00
- W max [g]: 375.50
- Data transformation: natural logarithm
- a: 0.0073345
- b: 3.1171844

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4408 -0.1119 -0.0286  0.1002  0.6854
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.9152     0.0720   -68.3   <2e-16 ***
## ln_l_x         3.1172     0.0273   114.2   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.153 on 404 degrees of freedom
## Multiple R-squared:  0.97,    Adjusted R-squared:  0.97
## F-statistic: 1.3e+04 on 1 and 404 DF,  p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 307.202178 307.20217777 13039.55 1.362373e-309
## Residuals 404    9.517943    0.02355926      NA      NA
```

Visualization

