

Length-weight relationship of *Alburnus arborella*
from Slovenia, sampled from 05.07.2011 to 11.09.2023
(n = 1344, length range from 2.00 cm to 16.50 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.02.2025
- Country: SVN
- Species: *Alburnus alburnus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 25.09.2024
- n: 9059
- L min [cm]: 2.00
- L max [cm]: 20.00
- W min [g]: 0.10
- W max [g]: 75.00
- Data transformation: natural logarithm
- a: 0.0052184
- b: 3.1364576

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8633 -0.0926 -0.0006  0.0924  0.9003
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.25557    0.00919   -572   <2e-16 ***
## ln_l_x       3.13646    0.00384    816   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.15 on 9057 degrees of freedom
## Multiple R-squared:  0.987, Adjusted R-squared:  0.987
## F-statistic: 6.66e+05 on 1 and 9057 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 14998.4807 1.499848e+04 666425.1      0
## Residuals 9057   203.8357 2.250588e-02      NA     NA
```

Visualization

