

Length-weight relationship of *Alburnoides bipunctatus* from Slovenia, sampled from 20.04.2010 to 11.09.2024 (n = 5657, length range from 1.80 cm to 16.80 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 08.11.2024
- Country: SVN
- Species: *Alburnoides bipunctatus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 11.09.2024
- n: 5657
- L min [cm]: 1.80
- L max [cm]: 16.80
- W min [g]: 0.10
- W max [g]: 53.00
- Data transformation: natural logarithm
- a: 0.0076118
- b: 3.1135814

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8661 -0.0746 -0.0017  0.0813  0.7459
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.87806    0.00878   -556    <2e-16 ***
## ln_l_x       3.11358    0.00445    699    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.14 on 5655 degrees of freedom
## Multiple R-squared:  0.989, Adjusted R-squared:  0.989
## F-statistic: 4.89e+05 on 1 and 5655 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 9556.7345 9.556734e+03 489156.1    0
## Residuals 5655  110.4828 1.953719e-02      NA     NA
```

Visualization

