

# Length-weight relationship of *Leucos aula* from Slovenia, sampled from 02.07.2013 to 09.07.2020 (n = 139, length range from 5.10 cm to 16.50 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 10.02.2021
- Country: SVN
- Species: *Leucos aula*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 02.07.2013
- Sampled to: 09.07.2020
- n: 139
- L min [cm]: 5.10
- L max [cm]: 16.50
- W min [g]: 1.10
- W max [g]: 60.00
- Data transformation: natural logarithm
- a: 0.0074238
- b: 3.2056702

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5837 -0.0583  0.0108  0.0952  0.2932
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -4.903      0.109   -45.1   <2e-16 ***
## ln_l_x         3.206      0.049    65.4   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.147 on 137 degrees of freedom
## Multiple R-squared:  0.969, Adjusted R-squared:  0.969
## F-statistic: 4.28e+03 on 1 and 137 DF, p-value: <2e-16
```

### ANOVA:

```
##              Df    Sum Sq   Mean Sq F value    Pr(>F)
## ln_l_x         1 93.015236 93.0152363 4275.502 3.499289e-105
## Residuals    137  2.980489  0.0217554      NA      NA
```

## Visualization

