

Length-weight relationship of *Aphanius fasciatus*  
 from Slovenia, sampled from 04.12.2008 to 08.01.2015  
 (n = 367, length range from 1.80 cm to 5.60 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.03.2021
- Country: SVN
- Species: *Aphanius fasciatus*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 04.12.2008
- Sampled to: 08.01.2015
- n: 367
- L min [cm]: 1.80
- L max [cm]: 5.60
- W min [g]: 0.10
- W max [g]: 3.39
- Data transformation: natural logarithm
- a: 0.0071545
- b: 3.4508723

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6833 -0.1523  0.0332  0.1686  0.6296
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.9400     0.0561   -88.1   <2e-16 ***
## ln_l_x         3.4509     0.0499    69.2   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.238 on 365 degrees of freedom
## Multiple R-squared:  0.929, Adjusted R-squared:  0.929
## F-statistic: 4.78e+03 on 1 and 365 DF, p-value: <2e-16
```

### ANOVA:

|           | Df  | Sum Sq    | Mean Sq      | F value  | Pr(>F)        |
|-----------|-----|-----------|--------------|----------|---------------|
| ln_l_x    | 1   | 270.83609 | 270.83609350 | 4782.788 | 7.657057e-212 |
| Residuals | 365 | 20.66895  | 0.05662725   | NA       | NA            |

# Visualization

