

Length-weight relationship of *Rhodeus amarus*
 from Slovenia, sampled from 14.10.2010 to 05.11.2020
 (n = 321, length range from 4.00 cm to 12.60 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 19.01.2021
- Country: SVN
- Species: *Rhodeus amarus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 14.10.2010
- Sampled to: 05.11.2020
- n: 321
- L min [cm]: 4.00
- L max [cm]: 12.60
- W min [g]: 1.00
- W max [g]: 19.00
- Data transformation: natural logarithm
- a: 0.0147862
- b: 2.9152946

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2975 -0.0966  0.0057  0.0889  0.4909
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.2141     0.0764   -55.1   <2e-16 ***
## ln_l_x         2.9153     0.0433    67.4   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.132 on 319 degrees of freedom
## Multiple R-squared:  0.934, Adjusted R-squared:  0.934
## F-statistic: 4.54e+03 on 1 and 319 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	79.005214	79.00521450	4541.25	9.929183e-191
Residuals	319	5.549719	0.01739724	NA	NA

Visualization

