

Length-weight relationship of *Lota lota*  
 from Slovenia, sampled from 12.07.2011 to 21.09.2020  
 (n = 300, length range from 10.60 cm to 62.00 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 18.01.2021
- Country: SVN
- Species: *Lota lota*
- Length type: TL (biometry\_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 12.07.2011
- Sampled to: 21.09.2020
- n: 300
- L min [cm]: 10.60
- L max [cm]: 62.00
- W min [g]: 10.00
- W max [g]: 1782.00
- Data transformation: natural logarithm
- a: 0.0095119
- b: 2.9001552

### Statistics - summary

#### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4352 -0.1007  0.0109  0.1060  0.4225
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.6552     0.0704   -66.1   <2e-16 ***
## ln_l_x         2.9002     0.0215   135.0   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.155 on 298 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 1.82e+04 on 1 and 298 DF, p-value: <2e-16
```

#### ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	436.648662	436.6486621	18225.28	2.730282e-269
Residuals	298	7.139603	0.0239584	NA	NA

## Visualization

