

Length-weight relationship of *Sprattus sprattus*  
 from Slovenia, sampled from 20.12.1995 to 17.07.2020  
 (n = 3987, length range from 5.70 cm to 15.30 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 14.01.2021
- Country: SVN
- Species: *Sprattus sprattus*
- Length type: TLmax (biometry\_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.12.1995
- Sampled to: 17.07.2020
- n: 3987
- L min [cm]: 5.70
- L max [cm]: 15.30
- W min [g]: 0.70
- W max [g]: 28.90
- Data transformation: natural logarithm
- a: 0.0064765
- b: 3.0285378

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5882 -0.0616 -0.0066  0.0562  0.5326
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.03957    0.02367   -213   <2e-16 ***
## ln_l_x       3.02854    0.00999    303   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0992 on 3985 degrees of freedom
## Multiple R-squared:  0.958, Adjusted R-squared:  0.958
## F-statistic: 9.19e+04 on 1 and 3985 DF, p-value: <2e-16
```

### ANOVA:

```
##           Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x     1  903.86032  9.038603e+02 91936.12    0
## Residuals 3985  39.17811  9.831395e-03      NA     NA
```

## Visualization

