

Length-weight relationship of *Sardina pilchardus*  
 from Slovenia, sampled from 11.05.1998 to 21.10.2020  
 (n = 30436, length range from 8.90 cm to 21.20 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Sardina pilchardus*
- Length type: TLmax (biometry\_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 11.05.1998
- Sampled to: 21.10.2020
- n: 30436
- L min [cm]: 8.90
- L max [cm]: 21.20
- W min [g]: 3.40
- W max [g]: 66.70
- Data transformation: natural logarithm
- a: 0.0131193
- b: 2.8152124

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7256 -0.0562  0.0032  0.0596  0.5107
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.33367    0.01297   -334 <2e-16 ***
## ln_l_x       2.81521    0.00489    576 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0872 on 30434 degrees of freedom
## Multiple R-squared:  0.916, Adjusted R-squared:  0.916
## F-statistic: 3.32e+05 on 1 and 30434 DF, p-value: <2e-16
```

### ANOVA:

```
##              Df  Sum Sq  Mean Sq  F value Pr(>F)
## ln_l_x         1 2524.145 2.524145e+03 331925.5    0
## Residuals 30434  231.437 7.604553e-03      NA     NA
```

## Visualization

