

Length-weight relationship of *Merluccius merluccius*
from Slovenia, sampled from 12.10.1995 to 02.06.2020
(n = 295, length range from 9.40 cm to 46.40 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Merluccius merluccius*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 12.10.1995
- Sampled to: 02.06.2020
- n: 295
- L min [cm]: 9.40
- L max [cm]: 46.40
- W min [g]: 4.70
- W max [g]: 1016.00
- Data transformation: natural logarithm
- a: 0.0036088
- b: 3.2522770

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2905 -0.0890  0.0104  0.0866  0.2800
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.6244     0.0802   -70.1   <2e-16 ***
## ln_l_x         3.2523     0.0245   132.9   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.122 on 293 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 1.77e+04 on 1 and 293 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	263.894577	263.89458	17675.46	6.052598e-264
Residuals	293	4.374489	0.01493	NA	NA

Visualization

