

Length-weight relationship of *Vimba vimba* from Slovenia, sampled from 21.04.2010 to 27.08.2024 (n = 2019, length range from 5.00 cm to 42.30 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Vimba vimba*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 21.04.2010
- Sampled to: 27.08.2024
- n: 2019
- L min [cm]: 5.00
- L max [cm]: 42.30
- W min [g]: 1.00
- W max [g]: 701.00
- Data transformation: natural logarithm
- a: 0.0062207
- b: 3.1291506

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7291 -0.0546 -0.0015  0.0577  0.4044
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.07987    0.01828   -278    <2e-16 ***
## ln_l_x        3.12915    0.00644    486    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0953 on 2017 degrees of freedom
## Multiple R-squared:  0.992, Adjusted R-squared:  0.992
## F-statistic: 2.36e+05 on 1 and 2017 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 2147.88208 2.147882e+03 236360.8      0
## Residuals 2017  18.32909 9.087304e-03      NA      NA
```

Visualization

