

Length-weight relationship of *Salvelinus umbla* from Slovenia, sampled from 01.09.2014 to 14.08.2024 (n = 935, length range from 9.00 cm to 66.00 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Salvelinus umbla*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 01.09.2014
- Sampled to: 14.08.2024
- n: 935
- L min [cm]: 9.00
- L max [cm]: 66.00
- W min [g]: 3.10
- W max [g]: 2668.20
- Data transformation: natural logarithm
- a: 0.0043810
- b: 3.2087067

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6619 -0.0948 -0.0089  0.0791  0.6999
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.4305     0.0384   -142    <2e-16 ***
## ln_l_x         3.2087     0.0133    240    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.157 on 933 degrees of freedom
## Multiple R-squared:  0.984, Adjusted R-squared:  0.984
## F-statistic: 5.78e+04 on 1 and 933 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 1424.38603 1.424386e+03 57819.04      0
## Residuals  933   22.98468 2.463524e-02      NA      NA
```

Visualization

