

Length-weight relationship of *Oncorhynchus mykiss* from Slovenia, sampled from 05.07.2011 to 23.09.2024 (n = 6001, length range from 4.70 cm to 68.30 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 09.01.2025
- Country: SVN
- Species: *Oncorhynchus mykiss*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 05.07.2011
- Sampled to: 23.09.2024
- n: 6001
- L min [cm]: 4.70
- L max [cm]: 68.30
- W min [g]: 1.40
- W max [g]: 3650.00
- Data transformation: natural logarithm
- a: 0.0104731
- b: 2.9945447

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8885 -0.0723 -0.0024  0.0686  0.9141
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.5590     0.0109   -417    <2e-16 ***
## ln_l_x         2.9945     0.0036    831    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.123 on 5999 degrees of freedom
## Multiple R-squared:  0.991, Adjusted R-squared:  0.991
## F-statistic: 6.91e+05 on 1 and 5999 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x         1 10449.08392 1.044908e+04 690642.3      0
## Residuals 5999   90.76196 1.512952e-02      NA      NA
```

Visualization

