

Length-weight relationship of *Perca fluviatilis*
from Slovenia, sampled from 12.07.2011 to 27.08.2024
(n = 11481, length range from 3.20 cm to 34.00 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Perca fluviatilis*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 12.07.2011
- Sampled to: 27.08.2024
- n: 11481
- L min [cm]: 3.20
- L max [cm]: 34.00
- W min [g]: 0.50
- W max [g]: 548.00
- Data transformation: natural logarithm
- a: 0.0086138
- b: 3.1396617

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.7699 -0.0638 -0.0070  0.0554  0.8162
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.75439    0.00658   -723    <2e-16 ***
## ln_l_x       3.13966    0.00268   1172    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.104 on 11479 degrees of freedom
## Multiple R-squared:  0.992, Adjusted R-squared:  0.992
## F-statistic: 1.37e+06 on 1 and 11479 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq F value Pr(>F)
## ln_l_x         1 14937.4841 1.493748e+04 1374101    0
## Residuals 11479  124.7851 1.087073e-02      NA     NA
```

Visualization

