

Length-weight relationship of *Phoxinus phoxinus* from Slovenia, sampled from 20.04.2010 to 31.08.2021 (n = 1384, length range from 1.90 cm to 10.50 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 19.05.2022
- Country: SVN
- Species: *Phoxinus phoxinus*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 31.08.2021
- n: 1384
- L min [cm]: 1.90
- L max [cm]: 10.50
- W min [g]: 0.10
- W max [g]: 15.00
- Data transformation: natural logarithm
- a: 0.0098328
- b: 3.0331357

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5787 -0.0788 -0.0114  0.0849  0.6378
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.6220     0.0239   -194    <2e-16 ***
## ln_l_x         3.0331     0.0148    205    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.141 on 1382 degrees of freedom
## Multiple R-squared:  0.968, Adjusted R-squared:  0.968
## F-statistic: 4.2e+04 on 1 and 1382 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 834.53538 834.53538376 41999.54      0
## Residuals 1382  27.46049   0.01987011      NA     NA
```

Visualization

