

Length-weight relationship of *Pagellus acarne*  
 from Slovenia, sampled from 11.05.1998 to 29.05.2024  
 (n = 1148, length range from 5.10 cm to 21.20 cm,  
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Pagellus acarne*
- Length type: TLmax (biometry\_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 11.05.1998
- Sampled to: 29.05.2024
- n: 1148
- L min [cm]: 5.10
- L max [cm]: 21.20
- W min [g]: 1.50
- W max [g]: 130.00
- Data transformation: natural logarithm
- a: 0.0074953
- b: 3.2031964

### Statistics - summary

#### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5863 -0.0620  0.0015  0.0654  0.3715
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.8935     0.0304   -161    <2e-16 ***
## ln_l_x         3.2032     0.0124    259    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.101 on 1146 degrees of freedom
## Multiple R-squared:  0.983, Adjusted R-squared:  0.983
## F-statistic: 6.72e+04 on 1 and 1146 DF, p-value: <2e-16
```

#### ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 685.37758 685.37758041 67222.39    0
## Residuals 1146 11.68424   0.01019567    NA    NA
```

## Visualization

