

Length-weight relationship of *Mustelus punctulatus* from Slovenia, sampled from 25.07.1995 to 20.10.2024 (n = 237, length range from 27.80 cm to 118.00 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 25.11.2024
- Country: SVN
- Species: *Mustelus punctulatus*
- Length type: TLmax (biometry_id = 75)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 25.07.1995
- Sampled to: 20.10.2024
- n: 237
- L min [cm]: 27.80
- L max [cm]: 118.00
- W min [g]: 61.00
- W max [g]: 6400.00
- Data transformation: natural logarithm
- a: 0.0018746
- b: 3.1165553

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5835 -0.0673  0.0025  0.0654  0.3576
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -6.2794     0.0887   -70.8   <2e-16 ***
## ln_l_x         3.1166     0.0225   138.7   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.104 on 235 degrees of freedom
## Multiple R-squared:  0.988, Adjusted R-squared:  0.988
## F-statistic: 1.92e+04 on 1 and 235 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 206.860931 206.86093130 19249.75 1.904922e-227
## Residuals 235    2.525348    0.01074616      NA      NA
```

Visualization

