

Length-weight relationship of *Mullus barbatus*
 from Slovenia, sampled from 22.11.1995 to 16.01.2004
 (n = 378, length range from 5.10 cm to 15.50 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Mullus barbatus*
- Length type: SL (biometry_id = 74)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 22.11.1995
- Sampled to: 16.01.2004
- n: 378
- L min [cm]: 5.10
- L max [cm]: 15.50
- W min [g]: 2.65
- W max [g]: 95.00
- Data transformation: natural logarithm
- a: 0.0143495
- b: 3.2278893

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.25402 -0.05061 -0.00099  0.05658  0.20408
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.2440     0.0555   -76.5   <2e-16 ***
## ln_l_x         3.2279     0.0236   136.7   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0787 on 376 degrees of freedom
## Multiple R-squared:  0.98,    Adjusted R-squared:  0.98
## F-statistic: 1.87e+04 on 1 and 376 DF,  p-value: <2e-16
```

ANOVA:

| | Df | Sum Sq | Mean Sq | F value | Pr(>F) |
|-----------|-----|------------|--------------|----------|---------------|
| ln_l_x | 1 | 115.847696 | 1.158477e+02 | 18693.99 | 1.086944e-322 |
| Residuals | 376 | 2.330093 | 6.197056e-03 | NA | NA |

Visualization

