

Length-weight relationship of *Gymnocephalus cernua*
 from Slovenia, sampled from 22.07.2013 to 17.09.2020
 (n = 1178, length range from 4.00 cm to 20.90 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 19.01.2021
- Country: SVN
- Species: *Gymnocephalus cernua*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 22.07.2013
- Sampled to: 17.09.2020
- n: 1178
- L min [cm]: 4.00
- L max [cm]: 20.90
- W min [g]: 1.00
- W max [g]: 144.00
- Data transformation: natural logarithm
- a: 0.0154811
- b: 2.9325057

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5345 -0.0686  0.0018  0.0607  0.4920
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.1681     0.0449   -92.8   <2e-16 ***
## ln_l_x         2.9325     0.0190   154.3   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.108 on 1176 degrees of freedom
## Multiple R-squared:  0.953, Adjusted R-squared:  0.953
## F-statistic: 2.38e+04 on 1 and 1176 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	279.63510	279.63510475	23809.98	0
Residuals	1176	13.81147	0.01174445	NA	NA

Visualization

