

Length-weight relationship of *Pontastacus leptodactylus*  
 from Slovenia, sampled from 03.09.2019 to 13.10.2020  
 (n = 389, length range from 3.77 cm to 7.80 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: *Pontastacus leptodactylus*
- Length type: CLR (biometry\_id = 233)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 03.09.2019
- Sampled to: 13.10.2020
- n: 389
- L min [cm]: 3.77
- L max [cm]: 7.80
- W min [g]: 10.20
- W max [g]: 112.44
- Data transformation: natural logarithm
- a: 0.1785806
- b: 3.1425419

## Statistics - summary

### Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2393 -0.0517 -0.0029  0.0518  0.3500
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.7227     0.0721   -23.9  <2e-16 ***
## ln_l_x         3.1425     0.0400    78.5  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.091 on 387 degrees of freedom
## Multiple R-squared:  0.941, Adjusted R-squared:  0.941
## F-statistic: 6.16e+03 on 1 and 387 DF, p-value: <2e-16
```

### ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	51.019985	51.01998528	6157.788	9.273539e-240
Residuals	387	3.206465	0.00828544	NA	NA

## Visualization

