

Length-weight relationship of *Sepia officinalis*
from Slovenia, sampled from 22.11.1995 to 05.07.2024
(n = 1289, length range from 1.90 cm to 26.70 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Sepia officinalis*
- Length type: ML (biometry_id = 184)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 22.11.1995
- Sampled to: 05.07.2024
- n: 1289
- L min [cm]: 1.90
- L max [cm]: 26.70
- W min [g]: 0.70
- W max [g]: 1250.00
- Data transformation: natural logarithm
- a: 0.2328596
- b: 2.7303249

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8041 -0.0629  0.0077  0.0726  0.7766
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -1.4573     0.0274   -53.1   <2e-16 ***
## ln_l_x         2.7303     0.0142   192.8   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.143 on 1287 degrees of freedom
## Multiple R-squared:  0.967, Adjusted R-squared:  0.966
## F-statistic: 3.72e+04 on 1 and 1287 DF, p-value: <2e-16
```

ANOVA:

```
##              Df    Sum Sq    Mean Sq  F value Pr(>F)
## ln_l_x         1 764.84409 764.84408624 37153.36    0
## Residuals 1287  26.49435   0.02058613     NA     NA
```

Visualization

