

Length-weight relationship of *Cyprinus carpio* from Slovenia, sampled from 30.08.2012 to 23.09.2024 (n = 242, length range from 4.80 cm to 90.00 cm, specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 09.01.2025
- Country: SVN
- Species: *Cyprinus carpio*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 30.08.2012
- Sampled to: 23.09.2024
- n: 242
- L min [cm]: 4.80
- L max [cm]: 90.00
- W min [g]: 1.80
- W max [g]: 17500.00
- Data transformation: natural logarithm
- a: 0.0128649
- b: 3.0889770

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
##	-0.7611	-0.0591	0.0016	0.0684	0.3881

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
## (Intercept)	-4.3533	0.0348	-125	<2e-16 ***
## ln_l_x	3.0890	0.0122	252	<2e-16 ***

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.132 on 240 degrees of freedom
## Multiple R-squared:  0.996, Adjusted R-squared:  0.996
## F-statistic: 6.37e+04 on 1 and 240 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
## ln_l_x	1	1107.037590	1.107038e+03	63694.76	4.457578e-293
## Residuals	240	4.171286	1.738036e-02	NA	NA

Visualization

