

# Length-weight relationship of *Zingel zingel* from Slovenia, sampled from 1.9.2011 to 9.10.2013 (n = 162, length range from 13.8 cm to 35.7 cm)

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 Data source: **BIOS, Fisheries Research Institute of Slovenia**  
 Analysed on: **7.11.2013**  
 Country: **SVN**  
 Species: ***Zingel zingel***  
 Length type: **TL**  
 Season: **combined**  
 Sex: **mixed**  
 Specimen condition: **alive**  
 Sampled from: **1.9.2011**  
 Sampled to: **9.10.2013**  
 n: **162**  
 L min: **13.8 cm**  
 L max: **35.7 cm**  
 Data transformation: **natural logarithm**  
 a: **0.003007085**  
 b: **3.284965616**

| DATA ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                          | Ref#        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Linear regression analysis by using the "least squares" method.                                                                                                                                                                                                                                                                                                                                        | <b>6095</b> |
| SELECT CONDITIONS                                                                                                                                                                                                                                                                                                                                                                                      | NOTES       |
| WHERE (((public_vt_specimen.taxon_id)=5389)<br>AND<br>((public_vt_specimen.specimen_condition_id)=9)<br>AND ((public_vt_specimen.balance1_id) Is Not<br>Null And (public_vt_specimen.balance1_id) Not In<br>(1,2)) AND (((bm2_mm)/10) Is Not Null) AND<br>((public_vt_specimen.specimen_mass_g) Is Not<br>Null) AND ((public_vt_specimen.specimen_no)=1)<br>AND ((public_vt_sampling.country_id)=193)) |             |

## SUMMARY OUTPUT

| Regression Statistics |             |
|-----------------------|-------------|
| Multiple R            | 0.985688816 |
| R Square              | 0.971582441 |
| Adjusted R Square     | 0.971404831 |
| Standard Error        | 0.103916198 |
| Observations          | 162         |

## ANOVA

|            | df  | SS          | MS          | F           | Significance F |
|------------|-----|-------------|-------------|-------------|----------------|
| Regression | 1   | 59.07168623 | 59.07168623 | 5470.321759 | 1.2369E-125    |
| Residual   | 160 | 1.727772188 | 0.010798576 |             |                |
| Total      | 161 | 60.79945842 |             |             |                |

|              | Coefficients | Standard Error | t Stat      | P-value     | Lower 95%    | Upper 95%    | Lower 95.0%  | Upper 95.0%  |
|--------------|--------------|----------------|-------------|-------------|--------------|--------------|--------------|--------------|
| Intercept    | -5.806784048 | 0.132585856    | -43.7964066 | 5.39805E-91 | -6.068628057 | -5.544940039 | -6.068628057 | -5.544940039 |
| X Variable 1 | 3.284965616  | 0.044414461    | 73.96162356 | 1.2369E-125 | 3.19725143   | 3.372679802  | 3.19725143   | 3.372679802  |

