

# Length-weight relationship of *Pagellus acarne* from Slovenia, sampled from 11.5.1998 to 13.1.2016 (n = 256, length range from 6.7 cm to 18.9 cm, specimen condition: mixed)

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 Data source: **BIOS, Fisheries Research Institute of Slovenia**  
 Analysed on: **13.5.2016**  
 Country: **SVN**  
 Species: ***Pagellus acarne***  
 Length type: **TLmax (biometry\_id = 78)**  
 Season: **combined**  
 Sex: **mixed**  
 Specimen condition: **mixed**  
 Sampled from: **11.5.1998**  
 Sampled to: **13.1.2016**  
 n: **256**  
 L min: **6.7 cm**  
 L max: **18.9 cm**  
 Data transformation: **natural logarithm**  
 a: **0.010902007**  
 b: **3.056448951**

| DATA ANALYSIS   | Ref#        |
|---|-------------|
| Linear regression analysis by using the "least squares" method  | <b>6456</b> |
| SELECT CONDITIONS   | NOTES       |
| WHERE (((public_vt_specimen.taxon_id)=729) AND ((public_vt_specimen.balance1_id) Is Not Null And (public_vt_specimen.balance1_id) Not In (-1,1,2,74)) AND (((bm1_mm)/10) Is Not Null) AND ((public_vt_specimen.specimen_mass_g) Is Not Null) AND (((specimen_mass_g)/10)>=[accuracy]) AND ((public_vt_specimen.specimen_no)=1) AND ((public_vt_sampling.country_id)=193)) |             |

SUMMARY OUTPUT

| Regression Statistics |             |
|-----------------------|-------------|
| Multiple R            | 0.994178168 |
| R Square              | 0.98839023  |
| Adjusted R Square     | 0.988344523 |
| Standard Error        | 0.088576142 |
| Observations          | 256         |

| ANOVA      |     |             |             |             |                |
|------------|-----|-------------|-------------|-------------|----------------|
|            | df  | SS          | MS          | F           | Significance F |
| Regression | 1   | 169.6571135 | 169.6571135 | 21624.12571 | 8.5943E-248    |
| Residual   | 254 | 1.992816145 | 0.007845733 |             |                |
| Total      | 255 | 171.6499296 |             |             |                |

|              | Coefficients | Standard Error | t Stat      | P-value     | Lower 95%    | Upper 95%    | Lower 95.0%  | Upper 95.0%  |
|--------------|--------------|----------------|-------------|-------------|--------------|--------------|--------------|--------------|
| Intercept    | -4.518808341 | 0.052258176    | -86.4708388 | 2.0548E-190 | -4.621722849 | -4.415893833 | -4.621722849 | -4.415893833 |
| X Variable 1 | 3.056448951  | 0.020784897    | 147.051439  | 8.5943E-248 | 3.015516267  | 3.097381635  | 3.015516267  | 3.097381635  |

