

# Length-weight relationship of *Merluccius merluccius* from the Gulf of Trieste, sampled from 3.4.1997 to 21.3.2013 (n = 88, length range from 15.8 cm to 45.7 cm)

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 Data source: **BIOS, Fisheries Research Institute of Slovenia**  
 Analysed on: **5.11.2013**  
 Country: **SVN**  
 Species: ***Merluccius merluccius***  
 Length type: **TLmax**  
 Season: **combined**  
 Sex: **mixed**  
 Specimen condition: **fresh**  
 Sampled from: **3.4.1997**  
 Sampled to: **21.3.2013**  
 n: **88**  
 L min: **15.8 cm**  
 L max: **45.7 cm**  
 Data transformation: **natural logarithm**  
 a: **0.003411977**  
 b: **3.26131812**

DATA ANALYSIS	Ref#
Linear regression analysis by using the "least squares" method.	<b>6049</b>
SELECT CONDITIONS	NOTES
WHERE (((public_vt_specimen.taxon_id)=611) AND ((public_vt_specimen.specimen_condition_id)=3) AND ((public_vt_specimen.balance1_id) Is Not Null And (public_vt_specimen.balance1_id) Not In (1,2)) AND (((bm1_mm)/10) Is Not Null) AND ((public_vt_specimen.specimen_mass_g) Is Not Null) AND ((public_vt_specimen.specimen_no)=1) AND ((public_vt_sampling.country_id)=193))	

**SUMMARY OUTPUT**

<i>Regression Statistics</i>	
Multiple R	0.988142732
R Square	0.976426058
Adjusted R Square	0.976151942
Standard Error	0.118657946
Observations	88

**ANOVA**

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	50.15327	50.15327	3562.095852	8.97583E-72
Residual	86	1.210854901	0.014079708		
Total	87	51.3641249			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-5.680463523	0.183631339	-30.9340637	2.24068E-48	-6.045510535	-5.31541651	-6.045510535	-5.31541651
X Variable 1	3.26131812	0.054643733	59.68329626	8.97583E-72	3.152689976	3.369946264	3.152689976	3.369946264

