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# LAMPIRAN

Lampiran 1. Hasil analisis regresi hubungan panjang bobot udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) jantan

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.9001
R Square	0.8103
Adjusted R Square	0.8059
Standard Error	0.0652
Observations	46

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.8000	0.8000	187.8965	0.0000
Residual	44	0.1873	0.0043		
Total	45	0.9873			

	<i>Coefficient s</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	-3.0065	0.2953	-10.1813	0.0000	-3.6016	2.4113	-3.6016	-2.4113
Log L (b)	2.0870	0.1523	13.7075	0.0000	1.7802	2.3939	1.7802	2.3939

Lampiran 2. Hasil analisis regresi hubungan panjang bobot udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) betina

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.9422
R Square	0.8877
Adjusted R Square	0.8823
Standard Error	0.0534
Observations	23

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.0000	0.4741	0.4741	165.9799	0.0000
Residual	21.0000	0.0600	0.0029		
Total	22.0000	0.5341			

	<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	-3.4152	0.3423	-9.9769	0.0000	-4.1270	-2.7033	-4.1270	-2.7033
Log L (b)	2.3044	0.1789	12.8833	0.0000	1.9324	2.6763	1.9324	2.6763

Lampiran 3. Kisaran dan rerata panjang total udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) jantan dan betina di perairan Batukalasi, Kecamatan Mallusetasi, Kabupaten Barru, Sulawesi Selatan

### Descriptives

		Jenis Kelamin	Statistic	Std. Error	
Panjang	Jantan	Mean	87.6304	1.67660	
		95% Confidence Interval for Mean	Lower Bound	84.2536	
			Upper Bound	91.0073	
		5% Trimmed Mean		88.5966	
		Median		92.0000	
		Variance		129.305	
		Std. Deviation		11.37123	
		Minimum		49.00	
		Maximum		103.00	
		Range		54.00	
		Interquartile Range		12.75	
		Skewness		-1.441	.350
		Kurtosis		2.234	.688
		Betina	Mean	82.5652	2.18405
	95% Confidence Interval for Mean		Lower Bound	78.0358	
			Upper Bound	87.0947	
	5% Trimmed Mean			83.3889	
	Median			84.0000	
	Variance			109.711	
	Std. Deviation			10.47432	
Minimum			48.00		
Maximum			101.00		
Range			53.00		
Interquartile Range			7.00		
Skewness			-1.708	.481	
Kurtosis			5.020	.935	

Lampiran 4. Kisaran dan rerata bobot total udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) jantan dan betina di perairan Batukalasi, Kecamatan Mallusetasi, Kabupaten Barru, Sulawesi Selatan

### Descriptives

		Jenis Kelamin	Statistic	Std. Error		
Bobot	Jantan	Mean	11.4978	.47713		
		95% Confidence Interval for	Lower Bound	10.5368		
		Mean	Upper Bound	12.4588		
		5% Trimmed Mean		11.6367		
		Median		12.2500		
		Variance		10.472		
		Std. Deviation		3.23608		
		Minimum		4.00		
		Maximum		16.20		
		Range		12.20		
		Interquartile Range		4.50		
		Skewness		-.644	.350	
		Kurtosis		-.393	.688	
		Betina	Betina	Mean	10.3783	.67370
				95% Confidence Interval for	Lower Bound	8.9811
Mean	Upper Bound			11.7754		
5% Trimmed Mean				10.3075		
Median				10.5000		
Variance				10.439		
Std. Deviation				3.23095		
Minimum				3.50		
Maximum				19.00		
Range				15.50		
Interquartile Range				3.00		
Skewness				.285	.481	
Kurtosis				1.832	.935	



Lampiran 5. Uji statistik koefisien udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) jantan

$$\begin{aligned}t_{hitung} &= \frac{(3-b)}{SE} \\ &= \frac{3-2.0870}{0.1523} \\ &= 5.9964\end{aligned}$$

$$\begin{aligned}Db &= n - 2 \\ &= 46 - 2 \\ &= 44\end{aligned}$$

$$T_{0.05(44)} = 2.0154$$

$T_{hitung} > t_{tabel}$  hal ini menunjukkan koefisien regresi hubungan panjang bobot udang mantis betina berbeda nyata.

Lampiran 6. Uji statistik koefisien regresi udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) betina

$$\begin{aligned}t_{hitung} &= \frac{(3-b)}{SE} \\ &= \frac{3-2.3044}{0.1789} \\ &= 3.8891\end{aligned}$$

$$\begin{aligned}Db &= n - 2 \\ &= 23 - 2 \\ &= 21\end{aligned}$$

$$T_{0.05(44)} = 2.0796$$

$T_{hitung} > t_{tabel}$  hal ini menunjukkan koefisien regresi hubungan panjang bobot udang mantis betina berbeda nyata.

Lampiran 7. Uji statistik koefisien regresi keseluruhan udang mantis, *Gonodactylus chiragra* (Fabricius, 1781) di perairan Batukalasi

$$\begin{aligned} JKS_1 &= \sum (Y_1 - \bar{Y}_1)^2 - \frac{\sum (X_1 - \bar{X}_1) (Y_1 - \bar{Y}_1)}{\sum (X_1 - \bar{X}_1)^2} \\ &= \sum (0,9873) - \frac{0,3833}{0,1837} \\ &= 0,1873 \end{aligned}$$

$$\begin{aligned} JKS_2 &= \sum (Y_2 - \bar{Y}_2)^2 - \frac{\sum (X_2 - \bar{X}_2) (Y_2 - \bar{Y}_2)}{\sum (X_2 - \bar{X}_2)^2} \\ &= \sum (0,5341) - \frac{0,2058}{0,0893} \\ &= 0,0600 \end{aligned}$$

$$\begin{aligned} S_p^2 &= \frac{JKS_1 + JKS_2}{(n_1 - 2) + (n_2 - 2)} \\ &= \frac{0,1873 + 0,0600}{(46 - 2) + (23 - 2)} \\ &= 0,0038 \end{aligned}$$

$$\begin{aligned} \text{var} (b_1 - b_2) &= \frac{S_p^2}{\sum (X_1 - \bar{X}_1)^2} + \frac{S_p^2}{\sum (X_2 - \bar{X}_2)^2} \\ &= \frac{0,0038}{0,0893} + \frac{0,0038}{0,1837} \\ &= 0,0837 \end{aligned}$$

$$\begin{aligned} t &= \frac{(b_1 - b_2)}{\sqrt{\text{var} (b_1 - b_2)}} \\ &= \frac{(2,3044 - 2,0870)}{\sqrt{0,0837}} \\ &= 5,8764 \end{aligned}$$

$$t_{0,05(65)} = 1,9971$$

karena  $t_{\text{hitung}} > t_{\text{tabel}}$  maka kesimpulannya adalah koefisien regresi hubungan panjang bobot udang mantis jantan dan betina berbeda nyata.