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LAMPIRAN

Lampiran 1. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) di Stasiun 1, berdasarkan waktu pengambilan sampel di Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8540
R Square	0,7294
Adjusted R Square	0,7291
Standard Error	0,1667
Observations	899

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	67,2238	67,2238	2417,7091	8E-257
Residual	897	24,9409	0,0278		
Total	898	92,1647			

	<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	-4,8165	0,0888	-54,2188	0,0000	-4,9908	-4,6421	-4,9908	-4,6421
X Variable 1	2,6498	0,0539	49,1702	0,0000	2,5441	2,7556	2,5441	2,7556

Lampiran 2. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) di Stasiun 2, berdasarkan waktu pengambilan sampel di Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8268
R Square	0,6836
Adjusted R Square	0,6831
Standard Error	0,1685
Observations	613

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	37,4691	37,4691	1320,2114	8,0461E-155
Residual	611	17,3409	0,0284		
Total	612	54,8100			

	<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	-4,3412	0,1069	-40,6102	0,0000	-4,5511	-4,1312	-4,5511	-4,1312
X Variable 1	2,3720	0,0653	36,3347	0,0000	2,2438	2,5002	2,2438	2,5002

Lampiran 3. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) di Stasiun 3, berdasarkan waktu pengambilan sampel di Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7900
R Square	0,6241
Adjusted R Square	0,6235
Standard Error	0,1642
Observations	584

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	26,0653	26,0653	966,3337	9,2E-126
Residual	582	15,6985	0,0270		
Total	583	41,7638			

	<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	-3,8786	0,1084	-35,7791	0,0000	-4,0915	-3,6657	-4,0915	-3,6657
X Variable 1	2,0663	0,0665	31,0859	0,0000	1,9358	2,1969	1,9358	2,1969

Lampiran 4. Uji statistik koefisien regresi keseluruhan ikan Julung-julung (*Dermogenys orientalis* Weber, 1894) Di Sungai Bantimurung, Kabupaten Maros

a). Uji koefisien regresi antara Stasiun 1 dan Stasiun 2

$$t = \frac{(b_1 - b_2)}{\sqrt{\text{Var}(b_1 - b_2)}}$$

$$= \frac{(2,6498 - 2,3720)}{\sqrt{155,6155}}$$

$$= 2,4597$$

$$\text{var}(b_1 - b_2) = \frac{S_p^2}{\sum(X_1 - \bar{X}_1)^2} + \frac{S_p^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \frac{611,1978}{9,5739} + \frac{611,1978}{6,6597}$$

$$= 155,6155$$

$$S_p^2 = \frac{JKS_1 + JKS_2}{(n_1 - 2) + (n_2 - 2)}$$

$$= \frac{160,1212 + 17,3409}{(899-2)+(613-2)}$$

$$= 611,1978$$

$$JKS_1 = \sum(Y_1 - \bar{Y}_1)^2 - \frac{\sum(X_1 - \bar{X}_1)(Y_1 - \bar{Y}_1)}{\sum(X_1 - \bar{X}_1)^2}$$

$$= \sum(92,1647) - \frac{\sum(-650,6113)}{\sum(9,5739)}$$

$$= 160,1212$$

$$JKS_2 = \sum(Y_2 - \bar{Y}_2)^2 - \frac{(\sum(X_2 - \bar{X}_2)(Y_2 - \bar{Y}_2))^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \sum(54,8100) - \frac{\sum(15,7966)}{\sum(6,6597)}$$

$$= 17,3409$$

$$t_{0.05(1512)} = 1,9615$$

Kesimpulan: Koefisien regresi antara Stasiun 1 dan Stasiun 2 tidak berbeda nyata

b). Uji koefisien antara Stasiun 1 dan Stasiun 3

$$t = \frac{(b_1 - b_2)}{\sqrt{\text{Var}(b_1 - b_2)}}$$

$$= \frac{(2,6498 - 2,0663)}{\sqrt{156,1564}}$$

$$= 2,4845$$

$$\text{var}(b_1 - b_2) = \frac{S_p^2}{\sum(X_1 - \bar{X}_1)^2} + \frac{S_p^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \frac{582,1173}{9,5739} + \frac{582,1173}{6,1048}$$

$$= 156,1564$$

$$S_p^2 = \frac{JKS_1 + JKS_2}{(n_1 - 2) + (n_2 - 2)}$$

$$= \frac{89,5149 + 15,6985}{(899-2)+(584-2)}$$

$$= 582,1173$$

$$JKS_1 = \sum(Y_1 - \bar{Y}_1)^2 - \frac{\sum(X_1 - \bar{X}_1)(Y_1 - \bar{Y}_1)}{\sum(X_1 - \bar{X}_1)^2}$$

$$= \sum(92,1647) - \frac{\sum(25,3692)}{\sum(9,5739)}$$

$$= 89,5149$$

$$JKS_2 = \sum(Y_2 - \bar{Y}_2)^2 - \frac{(\sum(X_2 - \bar{X}_2)(Y_2 - \bar{Y}_2))^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \sum(41,7638) - \frac{\sum(12,6144)}{\sum(6,1048)}$$

$$= 15,6985$$

$$t_{0.05(1483)} = 1,9616$$

Kesimpulan: Koefisien regresi antara Stasiun 1 dan Stasiun 3 tidak berbeda nyata

c). Uji koefisien antara Stasiun 2 dan Stasiun 3

$$t = \frac{(b_1 - b_2)}{\sqrt{\text{Var}(b_1 - b_2)}}$$

$$= \frac{(2,3720 - 2,0663)}{\sqrt{182,7614}}$$

$$= 2,2191$$

$$\text{var}(b_1 - b_2) = \frac{S_p^2}{\sum(X_1 - \bar{X}_1)^2} + \frac{S_p^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \frac{582,1115}{6,6597} + \frac{582,1115}{6,1048}$$

$$= 182,7614$$

$$S_p^2 = \frac{JKS_1 + JKS_2}{(n_1 - 2) + (n_2 - 2)}$$

$$= \frac{52,4381 + 15,6985}{(613-2)+(584-2)}$$

$$= 582,1115$$

$$JKS_1 = \sum(Y_1 - \bar{Y}_1)^2 - \frac{\sum(X_1 - \bar{X}_1)(Y_1 - \bar{Y}_1)}{\sum(X_1 - \bar{X}_1)^2}$$

$$= \sum(54,8100) - \frac{\sum(15,7966)}{\sum(6,6597)}$$

$$= 52,4381$$

$$JKS_2 = \sum(Y_2 - \bar{Y}_2)^2 - \frac{(\sum(X_2 - \bar{X}_2)(Y_2 - \bar{Y}_2))^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \sum(41,7638) - \frac{\sum(12,6144)}{\sum(6,1048)}$$

$$= 15,6985$$

$$t_{0.05(1197)} = 1,9620$$

Kesimpulan: Koefisien regresi antara Stasiun 2 dan Stasiun 3 tidak berbeda nyata

Lampiran 5. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Juli, di Stasiun 1 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8173
R Square	0,6680
Adjusted R Square	0,6660
Standard Error	0,1987
Observations	172

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	13,5040	13,5040	342,0171	1,48E-42
Residual	170	6,7122	0,0395		
Total	171	20,2162			

<i>Coefficients</i>	<i>Standard</i>				<i>Upper</i>	<i>Lower</i>	<i>Upper</i>	
	<i>Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>95%</i>	<i>95.0%</i>	<i>95.0%</i>	
Intercept	-4,9765	0,2562	-19,4255	0,0000	-5,4822	-4,4708	-5,4822	-4,4708
X Variable 1	2,7602	0,1493	18,4937	0,0000	2,4656	3,0549	2,4656	3,0549

Lampiran 6. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Agustus, di Stasiun
1 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7979
R Square	0,6367
Adjusted R Square	0,6351
Standard Error	0,2073
Observations	227

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	16,9455	16,9455	394,3355	2,24E-51
Residual	225	9,6688	0,0430		
Total	226	26,6143			

	<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	-4,5114	0,2057	-21,9307	0,0000	-4,9168	-4,1060	-4,9168	-4,1060
X Variable 1	2,4617	0,1240	19,8579	0,0000	2,2174	2,7060	2,2174	2,7060

Lampiran 7. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan September, di Stasiun 1 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,9025
R Square	0,8145
Adjusted R Square	0,8138
Standard Error	0,1116
Observations	272

ANOVA

	df	SS	MS	Significance	
				F	F
Regression	1	14,7756	14,7756	1185,3491	9,2E-101
Residual	270	3,3656	0,0125		
Total	271	18,1412			

	Coefficients	Standard		P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
		Error	t Stat					
Intercept	-4,9394	0,1271	-38,8516	0,0000	-5,1897	-4,6891	-5,1897	-4,6891
X Variable 1	2,7232	0,0791	34,4289	0,0000	2,5674	2,8789	2,5674	2,8789

Lampiran 8. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Oktober, di Stasiun 1 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8304
R Square	0,6895
Adjusted R Square	0,6882
Standard Error	0,1465
Observations	228

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	10,7704	10,7704	501,9679	2,51E-59
Residual	226	4,8491	0,0215		
Total	227	15,6195			

	<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	-4,6055	0,1833	-25,1222	0,0000	-4,9668	-4,2443	-4,9668	-4,2443
X Variable 1	2,5148	0,1122	22,4046	0,0000	2,2936	2,7360	2,2936	2,7360

Lampiran 9. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Juli, di Stasiun 2 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7668
R Square	0,5879
Adjusted R Square	0,5838
Standard Error	0,1954
Observations	102

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	5,4493	5,4493	142,6871	5,77E-21
Residual	100	3,8191	0,0382		
Total	101	9,2684			

	<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	-4,5150	0,3556	-12,6962	0,0000	-5,2205	-3,8095	-5,2205	-3,8095
X Variable 1	2,4971	0,2090	11,9452	0,0000	2,0824	2,9119	2,0824	2,9119

Lampiran 10. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Agustus, di Stasiun 2 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7469
R Square	0,5578
Adjusted R Square	0,5550
Standard Error	0,2228
Observations	160

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	9,894616	9,8946165	199,3361	8,46E-30
Residual	158	7,84278	0,0496378		
Total	159	17,7374			

	<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	-4,1720	0,2650	-15,7433	0,0000	-4,6954	-3,6486	-4,6954	-3,6486
X Variable 1	2,2616	0,1602	14,1186	0,0000	1,9452	2,5779	1,9452	2,5779

Lampiran 11. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan September, di Stasiun 2 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8754
R Square	0,7662
Adjusted R Square	0,7650
Standard Error	0,1213
Observations	193

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	9,2082	9,2082	626,0791	3,43E-62
Residual	191	2,8092	0,0147		
Total	192	12,0174			

	<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	-4,3793	0,1535	-28,5339	0,0000	-4,6820	-4,0766	-4,6820	-4,0766
X Variable 1	2,3901	0,0955	25,0216	0,0000	2,2017	2,5786	2,2017	2,5786

Lampiran 12. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Oktober, di Stasiun 2 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8636
R Square	0,7457
Adjusted R Square	0,7441
Standard Error	0,1293
Observations	158

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	7,6539	7,6539	457,5690	3E-48
Residual	156	2,6095	0,0167		
Total	157	10,2634			

	<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	-4,1307	0,1693	-24,4049	0,0000	-4,4651	-3,7964	-4,4651	-3,7964
X Variable 1	2,2410	0,1048	21,3909	0,0000	2,0341	2,4480	2,0341	2,4480

Lampiran 13. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Juli, di Stasiun 3 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,8418
R Square	0,7087
Adjusted R Square	0,7066
Standard Error	0,1694
Observations	146

ANOVA

	df	SS	MS	Significance	
				F	F
Regression	1	10,0558	10,0558	350,2711	2,15E-40
Residual	144	4,1340	0,0287		
Total	145	14,1898			

	Coefficients	Standard			Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
		Error	t Stat	P-value				
Intercept	-4,5355	0,2210	-20,5196	0,0000	-4,9724	-4,0986	-4,9724	-4,0986
X Variable 1	2,4658	0,1318	18,7155	0,0000	2,2054	2,7262	2,2054	2,7262

Lampiran 14. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Agustus, di Stasiun 3 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7294
R Square	0,5320
Adjusted R Square	0,5281
Standard Error	0,2016
Observations	122

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	5,5406	5,5406	136,3858	1,63E-21
Residual	120	4,8749	0,0406		
Total	121	10,4155			

	<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	-3,4760	0,2542	-13,6724	0,0000	-3,9793	-2,9726	-3,9793	-2,9726
X Variable 1	1,8014	0,1542	11,6784	0,0000	1,4960	2,1068	1,4960	2,1068

Lampiran 15. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan September, di Stasiun 3 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7763
R Square	0,6027
Adjusted R Square	0,5997
Standard Error	0,1297
Observations	138

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	3,4694	3,4694	206,2794	4,84E-29
Residual	136	2,2874	0,0168		
Total	137	5,7568			

	<i>Coefficients</i>	<i>Standard</i>			<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
		<i>Error</i>	<i>t Stat</i>	<i>P-value</i>				
Intercept	-3,8763	0,2286	-16,9542	0,0000	-4,3284	-3,4242	-4,3284	-3,4242
X Variable 1	2,0688	0,1440	14,3624	0,0000	1,7839	2,3536	1,7839	2,3536

Lampiran 16. Analisis regresi hubungan panjang - bobot ikan julung-julung (*Dermogenys orientalis* Weber, 1894) pada bulan Oktober, di Stasiun 3 Sungai Bantimurung

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,7470
R Square	0,5579
Adjusted R Square	0,5554
Standard Error	0,1475
Observations	178

ANOVA

	df	SS	MS	Significance	
				F	F
Regression	1	4,8309	4,8309	222,1387	5,08E-33
Residual	176	3,8275	0,0217		
Total	177	8,6584			

	Coefficients	Standard		P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
		Error	t Stat					
Intercept	-3,6622	0,2096	-17,4688	0,0000	-4,0759	-3,2484	-4,0759	-3,2484
X Variable 1	1,9369	0,1300	14,9043	0,0000	1,6804	2,1933	1,6804	2,1933

Lampiran 17. Alat tangkap yang digunakan

