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LAMPIRAN

Lampiran 1. Analisis regresi hubungan panjang bobot ikan nila, *Oreochromis niloticus* (Linnaeus, 1758) pada bulan Juli 2022

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,980558184
R Square	0,961494353
Adjusted R Square	0,961176125
Standard Error	0,052552184
Observations	123

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	8,344287	8,34428677	3021,396243	1,96E-87
Residual	121	0,33417	0,00276173		
Total	122	8,678456			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95,0%*	*Upper 95,0%*
Intercept	-4,530722696	0,113833	-39,8016552	2,30095E-71	-4,75608	-4,30536	-4,75608	-4,30536
X Variable 1	2,918670073	0,053098	54,9672288	1,96003E-87	2,813548	3,023792	2,813548	3,023792

Lampiran 2. Analisis regresi hubungan panjang bobot ikan nila, *Oreochromis niloticus* (Linnaeus, 1758) pada bulan Agustus 2022

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,980000772
R Square	0,960401513
Adjusted R Square	0,960096909
Standard Error	0,043586292
Observations	132

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	5,98987	5,98987	3152,95368	5,03E-93
Residual	130	0,24697	0,0019		
Total	131	6,23684			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95,0%*	*Upper 95,0%*
Intercept	-4,90205458	0,11567	-42,3802	5,7743E-78	-5,13089	-4,67322	-5,13089	-4,67322
X Variable 1	3,092020612	0,05507	56,15117	5,0336E-93	2,983079	3,200962	2,983079	3,200962

Lampiran 3. Analisis regresi hubungan panjang bobot ikan nila, *Oreochromis niloticus* (Linnaeus, 1758) pada bulan September 2022

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,982221914
R Square	0,964759888
Adjusted R Square	0,964509958
Standard Error	0,036535149
Observations	143

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	5,152557	5,152557	3860,122	2,5E-104
Residual	141	0,188209	0,001335		
Total	142	5,340767			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95,0%*	*Upper 95,0%*
Intercept	-4,55856703	0,097572	-46,7198	1,11E-87	-4,75146	-4,36567	-4,75146	-4,36567
X Variable 1	2,9169321	0,046949	62,12988	2,5E-104	2,824117	3,009747	2,824117	3,009747

Lampiran 4. Analisis regresi hubungan panjang bobot ikan nila, *Oreochromis niloticus* (Linnaeus, 1758) jantan

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,97983458
R Square	0,960075803
Adjusted R Square	0,959943604
Standard Error	0,046114041
Observations	304

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	15,4433899	15,4433899	7262,33502	2,9E-213
Residual	302	0,64220443	0,0021265		
Total	303	16,0855943			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95,0%*	*Upper 95,0%*
Intercept	-4,805799594	0,07482729	-64,225225	3,9547E-178	-4,95305	-4,65855	-4,95305	-4,65855
X Variable 1	3,043327832	0,03571171	85,2193348	2,8644E-213	2,973053	3,113603	2,973053	3,113603

Lampiran 5. Analisis regresi hubungan panjang bobot ikan nila, *Oreochromis niloticus* (Linnaeus, 1758) betina

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,984203663
R Square	0,96865685
Adjusted R Square	0,968316164
Standard Error	0,045745795
Observations	94

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	5,950007	5,95000732	2843,250652	5,6001E-71
Residual	92	0,192526	0,00209268		
Total	93	6,142534			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95,0%*	*Upper 95,0%*
Intercept	-4,61830265	0,118568	-38,950619	5,7831E-59	-4,8537892	-4,38282	-4,85379	-4,38282
X Variable 1	2,9536216	0,055392	53,3221404	5,60006E-71	2,84360825	3,063635	2,843608	3,063635

Lampiran 6. Uji statistik koefisien regresi keseluruhan ikan nila, Oreochromis niloticus (Linnaeus, 1758) antara Bulan Juli dan Agustus.

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

$$= \sum (8{,}6785) - \frac{\sum (2{,}8589)}{\sum (0{,}9795)}$$

$$= 0{,}3342$$

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

$$= \sum (6{,}2368) - \frac{\sum (1{,}9372)}{\sum (0{,}6265)}$$

$$= 0{,}2470$$

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

$$= \frac{0{,}3342 + 0{,}2470}{(123-2)+(132-2)}$$

$$= 0{,}0023$$

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

$$= \frac{(2{,}9186 - 3{,}0920)}{\sqrt{0{,}0778}}$$

$$= 1{,}6564$$

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

$$= \frac{0{,}0023}{0{,}9795} + \frac{0{,}0023}{0{,}6265}$$

$$= 1{,}9695$$

$t_{0.05(330)} = 1{,}6564$

Lampiran 7. Uji statistik koefisien regresi keseluruhan ikan nila, Oreochromis niloticus (Linnaeus, 1758) antara Bulan Juli dan September.

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

$$= \sum (8{,}6785) - \frac{\sum (2{,}8589)}{\sum (0{,}9795)}$$

$$= 0{,}3342$$

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

$$= \sum (5{,}3408) - \frac{\sum (1{,}7664)}{\sum (0{,}6056)}$$

$$= 0{,}1882$$

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

$$= \frac{0{,}3342 + 0{,}1882}{(123-2)+(143-2)}$$

$$= 0{,}0020$$

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

$$= \frac{(2{,}9187 - 2{,}9169)}{\sqrt{0{,}0730}}$$

$$= 1{,}7058$$

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

$$= \frac{0{,}0020}{0{,}9795} + \frac{0{,}0020}{0{,}6056}$$

$$= 0{,}0730$$

$t_{0.05(330)} = 1{,}9691$

Lampiran 8. Uji statistik koefisien regresi keseluruhan ikan nila, Oreochromis niloticus (Linnaeus, 1758) antara bulan Agustus dan September.

$$JKS_1 = \sum(Y_1 - \bar{Y}_1)^2 - \frac{(\sum(X_1 - \bar{X}_1)(Y_1 - \bar{Y}_1))^2}{\sum(X_2 - \bar{X}_2)^2}$$

$$= \sum(6{,}2368) - \frac{\sum(1{,}9372)}{\sum(0{,}6265)}$$

$$= 0{,}2470$$

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

$$= \sum(5{,}3408) - \frac{\sum(1{,}7664)}{\sum(0{,}6056)}$$

$$= 0{,}1882$$

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

$$= \frac{0{,}2470 + 0{,}1882}{(132-2)+(143-2)}$$

$$= 0{,}0016$$

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

$$= \frac{(3{,}0920 - 2{,}9169)}{0{,}0722}$$

$$= 1{,}8073$$

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

$$= \frac{0{,}0016}{0{,}6265} + \frac{0{,}0016}{0{,}6056}$$

$$= 0{,}0722$$

$t_{0.05(330)} = 1{,}9687$

Lampiran 9. Uji statistik koefisien regresi keseluruhan ikan nila, Oreochromis niloticus (Linnaeus, 1758) antara jantan dan betina.

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

$$= \sum (16{,}0855) - \frac{\sum (5{,}0745)}{\sum (1{,}6674)}$$

$$= 0{,}6422$$

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

$$= \sum (6{,}1425) - \frac{\sum (2{,}0145)}{\sum (0{,}6820)}$$

$$= 0{,}1925$$

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

$$= \frac{0{,}6422 + 0{,}1925}{(304-2)+(94-2)}$$

$$= 0{,}0021$$

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

$$= \frac{(3{,}0433 - 2{,}9536)}{\sqrt{0{,}0662}}$$

$$= 1{,}7682$$

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

$$= \frac{0{,}0021}{0{,}6674} + \frac{0{,}0021}{0{,}6820}$$

$$= 0{,}0662$$

$t_{0.05(330)} = 1{,}9660$