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LAMPIRAN

Lampiran 1. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan bulan September 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8668 |
| R Square | 0.7513 |
| Adjusted R Square | 0.7501 |
| Standard Error | 0.0682 |
| Observations | 199 |

| <i>ANOVA</i> | | | | | |
|--------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 2.7652 | 2.7652 | 595.2488 | 1.92E-61 |
| Residual | 197 | 0.9151 | 0.0046 | | |
| Total | 198 | 3.6802993 | | | |

| | <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 | -4.4629 | 0.2391 | 18.6691 | 0.0000 | -4.9343 | -3.9915 | -4.9343 | -3.9915 |
| X Variable 1 | 2.7817 | 0.1140 | 24.3977 | 0.0000 | 2.5569 | 3.0066 | 2.5569 | 3.0066 |

Lampiran 2. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), betina bulan September 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.9635 |
| R Square | 0.9283 |
| Adjusted R Square | 0.9268 |
| Standard Error | 0.0370 |
| Observations | 51 |

| <i>ANOVA</i> | | | | | |
|--------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 0.8700 | 0.8700 | 634.0015 | 0.0000 |
| Residual | 49 | 0.0672 | 0.0014 | | |
| Total | 50 | 0.9373 | | | |

| | <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 | -4.9929 | 0.2518 | 19.8323 | 0.0000 | -5.4988 | 4.4870 | -5.4988 | -4.4870 |
| X Variable 1 | 3.0359 | 0.1206 | 25.1794 | 0.0000 | 2.7936 | 3.2782 | 2.7936 | 3.2782 |

Lampiran 3. Uji statistik koefisien regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan September 2023

$$SE_{(b_1 - b_2)} = \sqrt{(s_{b_1})^2 + (s_{b_2})^2}$$

$$SE_{(b_1 - b_2)} = \sqrt{(0.1140)^2 + (0.1206)^2}$$
$$= 0.1659$$

$$t_{hitung} = \frac{|b_1 - b_2|}{SE_{(b_1 - b_2)}}$$

$$t_{hitung} = \frac{|2.7817 - 3.0359|}{0.1659}$$
$$= -1.5317$$

$$Db = n - 4$$
$$= 250 - 4$$
$$= 246$$

$$t_{0,05(137)} = 1.9697 (T_{tabel})$$

Karena $t_{hitung} < t_{tabel}$ maka koefisien regresi hubungan panjang-bobot ikan kuniran jantan dan betina tidak berbeda nyata sehingga data digabung.

Lampiran 4. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan bulan Oktober 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8535 |
| R Square | 0.7285 |
| Adjusted R Square | 0.7273 |
| Standard Error | 0.0519 |
| Observations | 222 |

| <i>ANOVA</i> | | | | | |
|--------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 1.5879 | 1.5879 | 590.2735 | 0.0000 |
| Residual | 220 | 0.5918 | 0.0027 | | |
| Total | 221 | 2.1797 | | | |

| | <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 | -4.2800 | 0.2266 | -18.8914 | 0.0000 | -4.7265 | -3.8335 | -4.7265 | -3.8335 |
| X Variable 1 | 2.6727 | 0.1100 | 24.2955 | 0.0000 | 2.4559 | 2.8895 | 2.4559 | 2.8895 |

Lampiran 5. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), betina bulan Oktober 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8815 |
| R Square | 0.7771 |
| Adjusted R Square | 0.7685 |
| Standard Error | 0.0408 |
| Observations | 28 |

| <i>ANOVA</i> | | | | | |
|--------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 0.1508 | 0.1508 | 90.6279 | 0.0000 |
| Residual | 26 | 0.0433 | 0.0017 | | |
| Total | 27 | 0.1941 | | | |

| | <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 | -3.8288 | 0.5365 | -7.1370 | 0.0000 | -4.9315 | -2.7260 | -4.9315 | -2.7260 |
| X Variable 1 | 2.4698 | 0.2594 | 9.5199 | 0.0000 | 1.9365 | 3.0031 | 1.9365 | 3.0031 |

Lampiran 6. Uji statistik koefisien regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan Oktober 2023

$$SE_{(b_1 - b_2)} = \sqrt{(s_{b_1})^2 + (s_{b_2})^2}$$

$$\begin{aligned} SE_{(b_1 - b_2)} &= \sqrt{(0.1100)^2 + (0.2594)^2} \\ &= 0.2818 \end{aligned}$$

$$t_{hitung} = \frac{|b_1 - b_2|}{SE_{(b_1 - b_2)}}$$

$$\begin{aligned} t_{hitung} &= \frac{|2.6727|}{0.2818} \\ &= 0.7199 \end{aligned}$$

$$\begin{aligned} Db &= n-4 \\ &= 250-4 \\ &= 246 \end{aligned}$$

$$t_{0,05(137)} = 1.9696 (T_{tabel})$$

Karena $t_{hitung} < t_{tabel}$ maka koefisien regresi hubungan panjang-bobot ikan kuniran jantan dan betina tidak berbeda nyata sehingga data digabung.

Lampiran 7. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan bulan November 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8252 |
| R Square | 0.6809 |
| Adjusted R Square | 0.6795 |
| Standard Error | 0.0478 |
| Observations | 216 |

| <i>ANOVA</i> | | | | | |
|--------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 1.0441 | 1.0441 | 456.7242 | 0.0000 |
| Residual | 214 | 0.4892 | 0.0023 | | |
| Total | 215 | 1.5333 | | | |

| | <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 | -4.3014 | 0.2591 | 16.6015 | 0.0000 | -4.8121 | 3.7907 | -4.8121 | -3.7907 |
| X Variable 1 | 2.6942 | 0.1261 | 21.3711 | 0.0000 | 2.4457 | 2.9427 | 2.4457 | 2.9427 |

Lampiran 8. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan November 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8352 |
| R Square | 0.6976 |
| Adjusted R Square | 0.6964 |
| Standard Error | 0.0472 |
| Observations | 250 |

| ANOVA | | | | | |
|------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 1.2768 | 1.2768 | 572.0752 | 0.0000 |
| Residual | 248 | 0.5535 | 0.0022 | | |
| Total | 249 | 1.8303 | | | |

| | <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 | -4.3908 | 0.2355 | 18.6446 | 0.0000 | -4.8546 | 3.9270 | -4.8546 | -3.9270 |
| X Variable 1 | 2.7398 | 0.1145 | 23.9181 | 0.0000 | 2.5142 | 2.9654 | 2.5142 | 2.9654 |

Lampiran 9. Uji statistik koefisien regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan November 2023

$$SE_{(b_1 - b_2)} = \sqrt{(s_{b_1})^2 + (s_{b_2})^2}$$

$$SE_{(b_1 - b_2)} = \sqrt{(0.1261)^2 + (0.2101)^2}$$
$$= 0.2450$$

$$t_{hitung} = \frac{|b_1 - b_2|}{SE_{(b_1 - b_2)}}$$

$$t_{hitung} = \frac{|2.6942 - 2.8154|}{0.2450}$$
$$= 0.4945$$

$$Db = n - 4$$
$$= 250 - 4$$
$$= 246$$

$$t_{0,05(137)} = 1.9696 (T_{tabel})$$

Karena $t_{hitung} < t_{tabel}$ maka koefisien regresi hubungan panjang-bobot ikan kuniran jantan dan betina tidak berbeda nyata sehingga data digabung.

Lampiran 10. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan September 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.9424 |
| R Square | 0.8881 |
| Adjusted R Square | 0.8877 |
| Standard Error | 0.0432 |
| Observations | 250 |

ANOVA

| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
|------------|-----------|-----------|-----------|-----------|-----------------------|
| Regression | 1.0000 | 3.6733 | 3.6733 | 1968.9223 | 0.0000 |
| Residual | 248.0000 | 0.4627 | 0.0019 | | |
| Total | 249.0000 | 4.1359 | | | |

| | <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 | -4.5922 | 0.1342 | 34.2251 | 0.0000 | -4.8564 | 4.3279 | -4.8564 | -4.3279 |
| X Variable 1 | 2.8420 | 0.0640 | 44.3725 | 0.0000 | 2.7158 | 2.9681 | 2.7158 | 2.9681 |

Lampiran 11. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan Oktober 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8543 |
| R Square | 0.7298 |
| Adjusted R Square | 0.7287 |
| Standard Error | 0.0516 |
| Observations | 250 |

ANOVA

| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
|------------|-----------|-----------|-----------|----------|-----------------------|
| Regression | 1 | 1.7854 | 1.7854 | 669.7218 | 0.0000 |
| Residual | 248 | 0.6612 | 0.0027 | | |
| Total | 249 | 2.4466 | | | |

| | <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 | -4.2895 | 0.2133 | 20.1106 | 0.0000 | -4.7096 | 3.8694 | -4.7096 | -3.8694 |
| X Variable 1 | 2.6791 | 0.1035 | 25.8790 | 0.0000 | 2.4752 | 2.8830 | 2.4752 | 2.8830 |

Lampiran 9. Analisis regresi hubungan panjang-bobot ikan kuniran, *Upeneus guttatus* (Day,1868), jantan dan betina bulan November 2023

SUMMARY OUTPUT

| <i>Regression Statistics</i> | |
|------------------------------|--------|
| Multiple R | 0.8352 |
| R Square | 0.6976 |
| Adjusted R Square | 0.6964 |
| Standard Error | 0.0472 |
| Observations | 250 |

| ANOVA | | | | | |
|------------|-----------|-----------|-----------|----------|-----------------------|
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> |
| Regression | 1 | 1.2768 | 1.2768 | 572.0752 | 0.0000 |
| Residual | 248 | 0.5535 | 0.0022 | | |
| Total | 249 | 1.8303 | | | |

| | <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 | -4.3908 | 0.2355 | 18.6446 | 0.0000 | -4.8546 | 3.9270 | -4.8546 | -3.9270 |
| X Variable 1 | 2.7398 | 0.1145 | 23.9181 | 0.0000 | 2.5142 | 2.9654 | 2.5142 | 2.9654 |