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# LAMPIRAN

Lampiran 1. Kisaran dan rerata panjang total ikan bungo, *Glossogobius giuris* (Buchanan, 1822) betina di perairan Danau Lapompakka dan Danau Sidenreng

### Descriptives

	Populasi		Statistic	Std. Error	
PanjangTotal	Lopompakka	Mean	193.0706	5.13204	
		95% Confidence Interval for Mean	Lower Bound	182.1911	
			Upper Bound	203.9500	
		5% Trimmed Mean	192.5673		
		Median	184.1000		
		Variance	447.743		
		Std. Deviation	21.15995		
		Minimum	165.80		
		Maximum	229.40		
		Range	63.60		
		Interquartile Range	41.05		
		Skewness	.417	.550	
		Kurtosis	-1.370	1.063	
		Sidenreng	Sidenreng	Mean	148.4540
95% Confidence Interval for Mean	Lower Bound			136.9021	
	Upper Bound			160.0059	
5% Trimmed Mean	148.0133				
Median	140.1200				
Variance	435.140				
Std. Deviation	20.86001				
Minimum	114.50				
Maximum	190.34				
Range	75.84				
Interquartile Range	35.45				
Skewness	.598			.580	
Kurtosis	-.231			1.121	

Lampiran 2. Kisaran dan rerata panjang total ikan bungo, *Glossogobius giuris* (Buchanan, 1822) Jantan di perairan Danau Lapompakka dan Danau Sidenreng

		<b>Descriptives</b>			
	Populasi		Statistic	Std. Error	
PanjangTotal	Lopompakka	Mean	193.4308	5.28091	
		95% Confidence Interval for Mean	Lower Bound	181.9247	
			Upper Bound	204.9369	
		5% Trimmed Mean	193.3231		
		Median	191.9000		
		Variance	362.544		
		Std. Deviation	19.04059		
		Minimum	163.20		
		Maximum	225.60		
		Range	62.40		
		Interquartile Range	29.95		
		Skewness	.329	.616	
		Kurtosis	-.590	1.191	
	Sidenreng	Mean	161.2607	7.71929	
		95% Confidence Interval for Mean	Lower Bound	144.7044	
			Upper Bound	177.8169	
		5% Trimmed Mean	160.0330		
		Median	154.5000		
		Variance	893.811		
		Std. Deviation	29.89667		
Minimum		124.50			
Maximum		220.12			
Range		95.62			
Interquartile Range		40.00			
Skewness		.607	.580		
Kurtosis		-.416	1.121		

Lampiran 3. Hasil univariate statistic (one way ANOVA) ikan bungo, *Glossogobius giuris* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

<b>Tests of Equality of Group Means</b>					
	Wilks' Lambda	F	df1	df2	Sig.
N3	.124	131.715	3	56	.000
N4	.466	21.365	3	56	.000
N5.1	.914	1.746	3	56	.168
N5.2	.964	.691	3	56	.561
N6	.994	.113	3	56	.952
N7	.840	3.560	3	56	.020
N8	.984	.303	3	56	.823
N9.1	.919	1.647	3	56	.189
N9.2	.936	1.275	3	56	.292
N10.1	.917	1.683	3	56	.181
N10.2	.741	6.536	3	56	.001
N11.1	.963	.723	3	56	.542
N11.2	.946	1.056	3	56	.375
N12.1	.831	3.800	3	56	.015
N12.2	.813	4.307	3	56	.008
N13.1	.923	1.561	3	56	.209
N13.2	.976	.464	3	56	.709
N14	.984	.303	3	56	.823
N15	.991	.174	3	56	.913
N16	.597	12.621	3	56	.000
N17	.589	13.041	3	56	.000
N18	.911	1.833	3	56	.152
N19	.956	.863	3	56	.466
N20	.788	5.011	3	56	.004
N21	.748	6.299	3	56	.001
N22	.722	7.205	3	56	.000
N23	.909	1.875	3	56	.144
N24	.922	1.573	3	56	.206
N25	.954	.906	3	56	.444
N26	.951	.954	3	56	.421
N27	.953	.910	3	56	.442
N28	.608	12.056	3	56	.000

Lampiran 4. Hasil Analisis stepwise ikan ikan bungo, *Glossogobius giuris* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

**Variables Entered/Removed<sup>a,b,c,d</sup>**

Step	Entered	Statistic	Wilks' Lambda							Approximate F			
			df1	df2	df3	Statistic	df1	df2	Sig.	Statistic	df1	df2	Sig.
1	N3	.124	1	3	56.00	131.7	3	56.00	.000				
					0	15		0					
2	N4	.066	2	3	56.00	52.81	6	110.0	.000				
					0	2		00					
3	N6	.046	3	3	56.00					37.01	9	131.5	.000
					0					3	72		
4	N20	.035	4	3	56.00					29.90	12	140.5	.000
					0					4	16		
5	N22	.025	5	3	56.00					26.86	15	143.9	.000
					0					2	51		
6	N28	.019	6	3	56.00					24.43	18	144.7	.000
					0					4	35		

At each step, the variable that minimizes the overall Wilks' Lambda is entered.

- a. Maximum number of steps is 64.
- b. Minimum partial F to enter is 3.84.
- c. Maximum partial F to remove is 2.71.
- d. F level, tolerance, or VIN insufficient for further computation.



Lampiran 3. Median karakter Tinggi Badan (N3), Panjang pangkal sirip dubur (N4), Jarak antara sirip perut dengan sirip dubur (N6), Lebar pangkal sirip ekor (N20), Jarak antara sirip dada kanan dengan sirip perut kanan (N22), dan Lebar badan (N28).

### Tinggi Badan (N3)

		Descriptives			
	POPULASI		Statistic	Std. Error	
N3	BETINA LOPOMPAKKA	Mean	23.8006	1.20018	
		95% Confidence Interval for Mean	Lower Bound	21.2563	
			Upper Bound	26.3449	
		5% Trimmed Mean		24.1657	
		Median		22.3600	
		Variance		24.487	
		Std. Deviation		4.94846	
		Minimum		10.92	
		Maximum		30.11	
		Range		19.19	
		Interquartile Range		7.48	
		Skewness		-.811	.550
		Kurtosis		1.364	1.063
	JANTAN LOPOMPAKKA	Mean	26.0085	2.05890	
		95% Confidence Interval for Mean	Lower Bound	21.5225	
			Upper Bound	30.4944	
		5% Trimmed Mean		26.0683	
		Median		25.2300	
		Variance		55.108	
		Std. Deviation		7.42348	
Minimum			11.90		
Maximum			39.04		
Range			27.14		
Interquartile Range			10.16		
Skewness			-.069	.616	
Kurtosis			-.194	1.191	
BETINA SIDENRENG	Mean	50.0787	2.79614		
	95% Confidence Interval for Mean	Lower Bound	44.0816		
		Upper Bound	56.0758		

	5% Trimmed Mean	49.3402	
	Median	45.9100	
	Variance	117.276	
	Std. Deviation	10.82939	
	Minimum	37.84	

Lampiran 5. Lanjutan

	Maximum	75.61	
	Range	37.77	
	Interquartile Range	16.68	
	Skewness	.932	.580
	Kurtosis	.393	1.121
JANTAN SIDENRENG	Mean	49.6320	2.77257
	95% Confidence Interval for Mean	Lower Bound	43.6854
		Upper Bound	55.5786
	5% Trimmed Mean	49.1689	
	Median	45.5500	
	Variance	115.307	
	Std. Deviation	10.73812	
	Minimum	34.59	
	Maximum	73.01	
	Range	38.42	
	Interquartile Range	17.98	
	Skewness	.833	.580
	Kurtosis	-.084	1.121

**Panjang pangkal sirip dubur (N4)**

**Descriptives**

	POPULASI		Statistic	Std. Error
N4	BETINA LOPOMPAKKA	Mean	23.7747	.67429
		95% Confidence Interval for Mean	Lower Bound	22.3453
			Upper Bound	25.2041
		5% Trimmed Mean	23.7475	
		Median	24.2400	
		Variance	7.729	
		Std. Deviation	2.78017	
		Minimum	20.15	
		Maximum	27.89	
		Range	7.74	

	Interquartile Range	5.79	
	Skewness	.003	.550
	Kurtosis	-1.816	1.063
JANTAN LOPOMPAKKA	Mean	25.6692	1.38272

#### Lampiran 5. Lanjutan

	95% Confidence Interval for	Lower Bound	22.6565	
	Mean	Upper Bound	28.6819	
	5% Trimmed Mean		25.3980	
	Median		23.1700	
	Variance		24.855	
	Std. Deviation		4.98546	
	Minimum		20.50	
	Maximum		35.72	
	Range		15.22	
	Interquartile Range		8.31	
	Skewness		.834	.616
	Kurtosis		-.517	1.191
BETINA SIDENRENG	Mean		19.2553	1.60387
	95% Confidence Interval for	Lower Bound	15.8154	
	Mean	Upper Bound	22.6953	
	5% Trimmed Mean		19.0004	
	Median		18.9300	
	Variance		38.586	
	Std. Deviation		6.21176	
	Minimum		10.64	
	Maximum		32.46	
	Range		21.82	
	Interquartile Range		10.85	
	Skewness		.501	.580
	Kurtosis		-.057	1.121
JANTAN SIDENRENG	Mean		32.8820	2.16034
	95% Confidence Interval for	Lower Bound	28.2485	
	Mean	Upper Bound	37.5155	
	5% Trimmed Mean		33.1428	
	Median		31.7500	
	Variance		70.006	
	Std. Deviation		8.36694	
	Minimum		18.85	
	Maximum		42.22	

Range	23.37	
Interquartile Range	17.17	
Skewness	-.425	.580
Kurtosis	-1.358	1.121

### Jarak antara sirip perut dengan sirip dubur (N6)

#### Descriptives

	POPULASI		Statistic	Std. Error	
N6	BETINA LOPOMPAKKA	Mean	43.4241	1.74549	
		95% Confidence Interval for Mean	Lower Bound	39.7238	
			Upper Bound	47.1244	
		5% Trimmed Mean	44.2357		
		Median	42.3700		
		Variance	51.795		
		Std. Deviation	7.19686		
		Minimum	20.98		
		Maximum	51.26		
		Range	30.28		
		Interquartile Range	9.00		
		Skewness	-1.832	.550	
		Kurtosis	5.407	1.063	
			JANTAN LOPOMPAKKA	Mean	44.0615
95% Confidence Interval for Mean	Lower Bound			38.3439	
	Upper Bound			49.7791	
5% Trimmed Mean	44.5467				
Median	42.3400				
Variance	89.523				
Std. Deviation	9.46163				
Minimum	20.98				
Maximum	58.41				
Range	37.43				
Interquartile Range	10.50				
Skewness	-.929			.616	
Kurtosis	2.049			1.191	
	BETINA SIDENRENG			Mean	34.2807
		95% Confidence Interval for Mean	Lower Bound	30.9413	
			Upper Bound	37.6201	
		5% Trimmed Mean	33.9819		
		Median	32.2100		

	Variance	36.363	
	Std. Deviation	6.03021	
	Minimum	26.76	
	Maximum	47.18	
	Range	20.42	

#### Lampiran 5. Lanjutan

	Interquartile Range	7.71	
	Skewness	1.053	.580
	Kurtosis	.300	1.121
JANTAN SIDENRENG	Mean	36.4187	1.91319
	95% Confidence Interval for Mean	Lower Bound	32.3153
		Upper Bound	40.5220
	5% Trimmed Mean	36.6291	
	Median	34.5100	
	Variance	54.904	
	Std. Deviation	7.40975	
	Minimum	21.22	
	Maximum	47.83	
	Range	26.61	
	Interquartile Range	11.14	
	Skewness	-.147	.580
	Kurtosis	-.370	1.121

#### Lebar pangkal sirip ekor (N20)

#### Descriptives

	POPULASI		Statistic	Std. Error
N20	BETINA LOPOMPAKKA	Mean	15.5806	.77677
		95% Confidence Interval for Mean	Lower Bound	13.9339
			Upper Bound	17.2273
		5% Trimmed Mean	15.5029	
		Median	15.6500	
		Variance	10.257	
		Std. Deviation	3.20270	
		Minimum	9.12	
		Maximum	23.44	
		Range	14.32	
		Interquartile Range	3.03	
		Skewness	.476	.550
		Kurtosis	1.656	1.063
	JANTAN LOPOMPAKKA	Mean	15.9485	1.04936

	95% Confidence Interval for	Lower Bound	13.6621	
	Mean	Upper Bound	18.2348	
	5% Trimmed Mean		15.7950	
	Median		15.2300	
	Variance		14.315	

#### Lampiran 5. Lanjutan

		Std. Deviation	3.78352	
		Minimum	11.28	
		Maximum	23.38	
		Range	12.10	
		Interquartile Range	5.33	
		Skewness	.832	.616
		Kurtosis	-.099	1.191
BETINA SIDENRENG	Mean		16.9347	1.84100
	95% Confidence Interval for	Lower Bound	12.9861	
	Mean	Upper Bound	20.8832	
	5% Trimmed Mean		16.5302	
	Median		13.4300	
	Variance		50.839	
	Std. Deviation		7.13016	
	Minimum		10.01	
	Maximum		31.14	
	Range		21.13	
	Interquartile Range		11.22	
	Skewness		.784	.580
	Kurtosis		-.696	1.121
JANTAN SIDENRENG	Mean		14.5440	1.18212
	95% Confidence Interval for	Lower Bound	12.0086	
	Mean	Upper Bound	17.0794	
	5% Trimmed Mean		14.0911	
	Median		13.4400	
	Variance		20.961	
	Std. Deviation		4.57834	
	Minimum		10.01	
	Maximum		27.23	
	Range		17.22	
	Interquartile Range		5.55	
	Skewness		1.508	.580
	Kurtosis		3.189	1.121

**Jarak antara sirip dada kanan dengan sirip perut kanan (N22)**

**Descriptives**

	POPULASI		Statistic	Std. Error	
N22	BETINA LOPOMPAKKA	Mean	16.1506	.76130	
		95% Confidence Interval for Mean	Lower Bound	14.5367	
			Upper Bound	17.7645	
		5% Trimmed Mean	16.2618		
		Median	17.4800		
		Variance	9.853		
		Std. Deviation	3.13891		
		Minimum	10.16		
		Maximum	20.14		
		Range	9.98		
		Interquartile Range	5.15		
		Skewness	-.475	.550	
		Kurtosis	-1.036	1.063	
			JANTAN LOPOMPAKKA	Mean	21.2654
95% Confidence Interval for Mean	Lower Bound			18.6814	
	Upper Bound			23.8494	
5% Trimmed Mean	21.2743				
Median	23.4600				
Variance	18.285				
Std. Deviation	4.27609				
Minimum	15.25				
Maximum	27.12				
Range	11.87				
Interquartile Range	7.63				
Skewness	-.167			.616	
Kurtosis	-1.646			1.191	
	BETINA SIDENRENG			Mean	7.7913
		95% Confidence Interval for Mean	Lower Bound	5.2152	
			Upper Bound	10.3675	
		5% Trimmed Mean	7.3593		
		Median	7.2400		

Variance	21.641	
Std. Deviation	4.65195	
Minimum	2.24	
Maximum	21.12	
Range	18.88	
Interquartile Range	3.66	
Skewness	1.777	.580

Lampiran 5. Lanjutan

JANTAN SIDENRENG	Kurtosis	4.365	1.121
	Mean	13.7173	2.32275
	95% Confidence Interval for Mean	Lower Bound	8.7355
		Upper Bound	18.6991
	5% Trimmed Mean	13.2265	
	Median	9.1700	
	Variance	80.928	
	Std. Deviation	8.99597	
	Minimum	6.19	
	Maximum	30.08	
	Range	23.89	
	Interquartile Range	14.41	
	Skewness	1.098	.580
	Kurtosis	-.527	1.121

Lebar badan (N28)

Descriptives

	POPULASI		Statistic	Std. Error
N28	BETINA LOPOMPAKKA	Mean	22.8788	.83756
		95% Confidence Interval for Mean	Lower Bound	21.1033
			Upper Bound	24.6544
		5% Trimmed Mean	22.6709	
		Median	21.5400	
		Variance	11.926	
		Std. Deviation	3.45334	
		Minimum	19.47	
		Maximum	30.03	
		Range	10.56	
		Interquartile Range	2.22	
		Skewness	1.540	.550
		Kurtosis	1.044	1.063
	JANTAN LOPOMPAKKA	Mean	23.1077	1.50135



	95% Confidence Interval for	Lower Bound	19.8365	
	Mean	Upper Bound	26.3788	
	5% Trimmed Mean		23.2863	
	Median		22.3000	
	Variance		29.303	
	Std. Deviation		5.41319	
	Minimum		10.94	

Lampiran 5. lanjutan

	Maximum		32.06	
	Range		21.12	
	Interquartile Range		6.71	
	Skewness		-.411	.616
	Kurtosis		1.206	1.191
BETINA SIDENRENG	Mean		24.4633	1.33981
	95% Confidence Interval for	Lower Bound	21.5897	
	Mean	Upper Bound	27.3369	
	5% Trimmed Mean		24.3787	
	Median		23.9800	
	Variance		26.927	
	Std. Deviation		5.18908	
	Minimum		16.54	
	Maximum		33.91	
	Range		17.37	
	Interquartile Range		4.73	
	Skewness		.538	.580
	Kurtosis		-.306	1.121
JANTAN SIDENRENG	Mean		19.9980	1.31268
	95% Confidence Interval for	Lower Bound	17.1826	
	Mean	Upper Bound	22.8134	
	5% Trimmed Mean		20.0878	
	Median		20.1100	
	Variance		25.847	
	Std. Deviation		5.08397	
	Minimum		10.51	
	Maximum		27.87	
	Range		17.36	
	Interquartile Range		9.21	
	Skewness		-.227	.580
	Kurtosis		-.788	1.121

Lampiran 6. Hasil Statistik eigenvalues ikan bungo, *Glossogobius giuris* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	13.948 <sup>a</sup>	85.7	85.7	.966
2	2.271 <sup>a</sup>	14.0	99.6	.833
3	.060 <sup>a</sup>	.4	100.0	.238

a. First 3 canonical discriminant functions were used in the analysis.

Lampiran 7. Hasil statistik koefisien fungsi diskriminan kanonikal ikan ikan bungo, *Glossogobius giuris* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

	Function		
	1	2	3
N3	28.000	2.121	1.969
N4	5.177	22.214	-4.052
N6	-15.927	-6.279	-1.145
N20	11.986	-19.019	5.341
N22	-7.591	11.921	20.155
N28	-9.981	-17.940	8.010
(Constant)	-3.229	.983	-3.451

Unstandardized coefficients

Lampiran 8. Hasil statistik group centroids ikan ikan bungo, *Glossogobius giuris* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

Populasi	Function		
	1	2	3
Betina Lopompakka	-3.685	-.338	-.284
jantan Lopompakka	-3.495	.274	.385
Betina Sidenreng	3.873	-1.962	.043
Jantan Sidenreng	3.332	2.106	-.055

Unstandardized canonical discriminant functions evaluated at group means

Lampiran 9. Hasil prediksi anggota kelompok ikan ikan bungo, *Glossogobius giurus* (Buchanan, 1822) di perairan Danau Lopompakka dan Danau Sidenreng

**Classification Results<sup>a,c</sup>**

		Populasi	Predicted Group Membership				Total	
			Betina Lopompakka	jantan Lopompakka	Betina Sidenreng	Jantan Sidenreng		
Original	Count	Betina Lopompakka	16	1	0	0	17	
		jantan Lopompakka	3	10	0	0	13	
		Betina Sidenreng	0	0	15	0	15	
		Jantan Sidenreng	0	0	1	14	15	
		%	Betina Lopompakka	94.1	5.9	.0	.0	100.0
		jantan Lopompakka	23.1	76.9	.0	.0	100.0	
		Betina Sidenreng	.0	.0	100.0	.0	100.0	
		Jantan Sidenreng	.0	.0	6.7	93.3	100.0	
	Cross- validated <sup>b</sup>	Count	Betina Lopompakka	13	4	0	0	17
			jantan Lopompakka	5	8	0	0	13
Betina Sidenreng			0	0	15	0	15	
Jantan Sidenreng			0	0	2	13	15	
%			Betina Lopompakka	76.5	23.5	.0	.0	100.0
		jantan Lopompakka	38.5	61.5	.0	.0	100.0	
		Betina Sidenreng	.0	.0	100.0	.0	100.0	
	Jantan Sidenreng	.0	.0	13.3	86.7	100.0		

a. 91.7% of original grouped cases correctly classified.

b. Cross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases other than that case.

c. 81.7% of cross-validated grouped cases correctly classified.