

Lampiran 3. Hasil Analisis Jenis Fitoplankton yang Ditemukan di Perairan Danau Paki Desa Mentulik Selama Penelitian

No.	Jenis	Jumlah Spesies yang ditemukan(sel/l)											
		Stasiun I				Stasiun II				Stasiun III			
		UI	UII	UIII	Rata-rata	UI	UII	UIII	Rata-rata	UI	UII	UIII	Rata-rata
Cyanophyceae													
1	<i>Aphanocapsa elachista</i>	25	27	18	23	22	29	27	26.0	29	21	19	23.0
2	<i>Calothrix coriacea</i>	27	25	29	27	29	31	24	28.0	29	30	25	28.0
3	<i>Dactylococcopsis acicularis</i>	35	42	37	38	45	52	43	46.7	41	35	31	35.7
4	<i>Holopedium irregulare</i>	15	25	27	22	15		29	22.0		19		19.0
5	<i>Microchaeta investiens</i>	39	28	35	34	42	37	29	36.0	35	31	29	31.7
6	<i>Microcystis flasaquae</i>	19			19	17	24	29	23.3	21	15	17	17.7
7	<i>Lyngbya limnetica</i>	15	18	17	17	17	12	18	15.7	14		9	11.5
8	<i>Raphidiopsis curvata</i>	32	49	35	39	34	29	47	36.7	29	27	21	25.7
9	<i>Synechocystis aquetillis</i>	34	23	29	29	32	30	34	32.0	27	24	21	24.0
Bacillariophyceae													
10	<i>Nitzschia vermicularis</i>	40	35	39	38	34	37	35	35.3	32	37	29	32.7
11	<i>N. closterium</i>	68	79	74	74	71	77	64	70.7	60	65	59	61.3
12	<i>N. curvata</i>	52	56	54	54	55	49	37	47.0	49	41	30	40.0
13	<i>fragilaria cylindrus</i>	15	19	24	19	14	29	12	18.3	13	19	15	15.7
Chlorophyceae													
14	<i>Closterium gracile</i>	29	27	35	30		28		28.0	18		10	14.0
15	<i>Schroederia setigara</i>	78	72	75	75	74	71	69	71.3	59	52	55	55.3
16	<i>Spyrogyra pseudolymrica</i>	46	52	49	49	50		41	45.5	29		19	24.0
17	<i>Ulotrix zonata</i>	10	12	6	9		14		14.0				
18	<i>Schroderia nitzschioides</i>	13	15	14	14	10	15	14	13.0	9	11	8	9.3
Xanthophyceae													
19	<i>Batrydopsis arrhiza</i>	21	24	25	23					19	12		15.5
	Total	613	628	622	634	561	564	552	610	513	439	397	484

Keterangan:

UI = ULANGAN 1

UII = ULANGAN 2

UIII = ULANGAN 3

Lampiran 4. Hasil Analisis Rata-Rata Indeks Keragaman Jenis (H'), Indeks Dominasi Jenis (C') dan Indeks Keseragaman Jenis (E') Fitoplankton di Danau Paki Desa Mentulik Selama Penelitian

Stasiun I

No.	Jenis	ni	pi	log pi	log 2 pi	pi log 2 pi	(pi ^2)
Cyanophyceae							
1	<i>Aphanocapsa elachista</i>	2333	0.0368	-1.4339	-4.7633	-0.1754	0.0014
2	<i>Calothrix coriacea</i>	2700	0.0426	-1.3705	-4.5527	-0.1940	0.0018
3	<i>Dactylococcopsis acicularis</i>	3800	0.0600	-1.2221	-4.0597	-0.2435	0.0036
4	<i>Holopedium irregulare</i>	2233	0.0352	-1.4529	-4.8265	-0.1701	0.0012
5	<i>Microchaeta investiens</i>	3400	0.0537	-1.2704	-4.2201	-0.2264	0.0029
6	<i>Microcystis flasaquae</i>	1900	0.0300	-1.5231	-5.0597	-0.1517	0.0009
7	<i>Lyngbya limnetica</i>	1667	0.0263	-1.5800	-5.2487	-0.1381	0.0007
8	<i>Raphidiopsis curvata</i>	3867	0.0610	-1.2145	-4.0346	-0.2462	0.0037
9	<i>Synechocystis aquetillis</i>	2867	0.0452	-1.3445	-4.4663	-0.2021	0.0020
Bacillariophyceae							
10	<i>Nitzschia vermicularis</i>	3800	0.0600	-1.2221	-4.0597	-0.2435	0.0036
11	<i>N. closterium</i>	7367	0.1163	-0.9346	-3.1046	-0.3609	0.0135
12	<i>N. curvata</i>	5400	0.0852	-1.0695	-3.5527	-0.3028	0.0073
13	<i>fragilaria cylindrus</i>	1933	0.0305	-1.5156	-5.0346	-0.1536	0.0009
Chlorophyceae							
14	<i>Closterium gracile</i>	3033	0.0479	-1.3199	-4.3848	-0.2099	0.0023
15	<i>Schroederia setigara</i>	7500	0.1184	-0.9268	-3.0788	-0.3644	0.0140
16	<i>Spyrogyra pseudoylinrica</i>	4900	0.0773	-1.1117	-3.6929	-0.2856	0.0060
17	<i>Ulotrix zonata</i>	933	0.0147	-1.8318	-6.0852	-0.0896	0.0002
18	<i>Schroederia nitzschoides</i>	1400	0.0221	-1.6557	-5.5002	-0.1215	0.0005
Xanthophyceae							
19	<i>Batrydiopsis arrhiza</i>	2333	0.0368	-1.4339	-4.7633	-0.1754	0.0014
	TOTAL	63367	1	-25	-84.4881	-4.0545	0.0679

Keterangan :

Indeks Keanekaragaman Jenis (H') = 4.5450

Indeks Dominasi Jenis (C') = 0.0679

Indeks Keseragaman Jenis (E') = 0.9545

Stasiun II

No.	Jenis	ni	pi	log pi	log 2 pi	pi log 2 pi	(pi ^2)
Cyanophyceae							
1	<i>Aphanocapsa elachista</i>	2600	0.0429	-1.3674	-4.5425	-0.1949	0.0018
2	<i>Calothrix coriacea</i>	2800	0.0462	-1.3352	-4.4356	-0.2050	0.0021
3	<i>Dactylococcopsis acicularis</i>	4667	0.0770	-1.1134	-3.6986	-0.2849	0.0059
4	<i>Holopedium irregulare</i>	2200	0.0363	-1.4400	-4.7835	-0.1737	0.0013
5	<i>Microchaeta investiens</i>	3600	0.0594	-1.2261	-4.0730	-0.2420	0.0035
6	<i>Microcystis flasaquae</i>	2333	0.0385	-1.4144	-4.6986	-0.1809	0.0015
7	<i>Lyngbya limnetica</i>	1567	0.0259	-1.5874	-5.2733	-0.1364	0.0007
8	<i>Raphidiopsis curvata</i>	3667	0.0605	-1.2181	-4.0465	-0.2449	0.0037
9	<i>Synechocystis aquetillis</i>	3200	0.0528	-1.2773	-4.2429	-0.2241	0.0028
Bacillariophyceae							
10	<i>Nitzschia vermicularis</i>	3533	0.0583	-1.2342	-4.1000	-0.2391	0.0034
11	<i>N. closterium</i>	7067	0.1166	-0.9332	-3.1000	-0.3616	0.0136
12	<i>N. curvata</i>	4700	0.0776	-1.1103	-3.6883	-0.2861	0.0060
13	<i>fragilaria cylindrus</i>	1833	0.0303	-1.5192	-5.0465	-0.1527	0.0009
Chlorophyceae							
14	<i>Closterium gracile</i>	2800	0.0462	-1.3352	-4.4356	-0.2050	0.0021
15	<i>Schroederia setigara</i>	7133	0.1177	-0.9291	-3.0864	-0.3634	0.0139
16	<i>Spyrogyra pseudoylinrica</i>	4550	0.0751	-1.1244	-3.7351	-0.2805	0.0056
17	<i>Ulotrix zonata</i>	1400	0.0231	-1.6363	-5.4356	-0.1256	0.0005
18	<i>Schroderia nitzschioides</i>	1300	0.0215	-1.6685	-5.5425	-0.1189	0.0005
Xanthophyceae							
19	<i>Batrydiopsis arrhiza</i>	0	0.0000	0	0.0000	0.0000	0.0000
TOTAL		60950	1	-23	-77.965	-4.0195	0.0699

Keterangan :Indeks Keanekaragaman Jenis (H') = 4.0195Indeks Dominasi Jenis (C') = 0.0699Indeks Keseragaman Jenis (E') = 0.9639

Stasiun III

No.	Jenis	ni	pi	log pi	log 2 pi	pi log 2 pi	(pi ^2)
Cyanophyceae							
1	<i>Aphanocapsa elachista</i>	2300	0.0475	-1.3231	-4.3953	-0.2089	0.0023
2	<i>Calothrix coriacea</i>	2800	0.0579	-1.2377	-4.1115	-0.2379	0.0033
3	<i>Dactylococcopsis acicularis</i>	3567	0.0737	-1.1326	-3.7624	-0.2773	0.0054
4	<i>Holopedium irregulare</i>	1900	0.0393	-1.4061	-4.6709	-0.1834	0.0015
5	<i>Microchaeta investiens</i>	3167	0.0654	-1.1842	-3.9340	-0.2574	0.0043
6	<i>Microcystis flasaquae</i>	1767	0.0365	-1.4377	-4.7759	-0.1743	0.0013
7	<i>Lyngbya limnetica</i>	1150	0.0238	-1.6241	-5.3953	-0.1282	0.0006
8	<i>Raphidiopsis curvata</i>	2567	0.0530	-1.2755	-4.2370	-0.2247	0.0028
9	<i>Synechocystis aquetillis</i>	2400	0.0496	-1.3046	-4.3339	-0.2149	0.0025
Bacillariophyceae							
10	<i>Nitzschia vermicularis</i>	3267	0.0675	-1.1707	-3.8891	-0.2625	0.0046
11	<i>N. closterium</i>	6133	0.1267	-0.8971	-2.9803	-0.3777	0.0161
12	<i>N. curvata</i>	4000	0.0826	-1.0828	-3.5969	-0.2973	0.0068
13	<i>fragilaria cylindrus</i>	1567	0.0324	-1.4899	-4.9492	-0.1602	0.0010
Chlorophyceae							
14	<i>Closterium gracile</i>	1400	0.0289	-1.5387	-5.1115	-0.1479	0.0008
15	<i>Schroederia setigara</i>	5533	0.1143	-0.9419	-3.1288	-0.3577	0.0131
16	<i>Spyrogyra pseudoylinrica</i>	2400	0.0496	-1.3046	-4.3339	-0.2149	0.0025
17	<i>Ulotrix zonata</i>	0	0.0000	0.0000	0.0000	0.0000	0.0000
18	<i>Schroederia nitzschioides</i>	933	0.0193	-1.7148	-5.6965	-0.1098	0.0004
Xanthophyceae							
19	<i>Batrydiopsis arrhiza</i>	1550	0.0320	0	0.0000	0.0000	0.0010
TOTAL		48400	1	-22	-73.3024	-3.8348	0.0703

Keterangan :

Indeks Keanekaragaman Jenis (H') = 3.8348

Indeks Dominasi Jenis (C') = 0.0703

Indeks Keseragaman Jenis (E') = 0.9196

Lampiran 5. Nilai Parameter Kualitas Air Danau Paki Desa Mentulik Selama Penelitian

No.	Parameter	Satuan	Stasiun	Pengambilan ke-			Rata-rata
				1	2	3	
1	Suhu	°C	I	30.4	27.5	28.7	28.87
			II	29.4	28.2	28.8	28.80
			III	28.8	27.4	28.5	28.23
2	Kecerahan	cm	I	36	31	37	34.67
			II	35	30	34	33.00
			III	29	27	31	29.00
3	Kekeruhan	NTU	I	24	27	23	24.67
			II	25	27	25	25.67
			III	27	28	26	27.00
4	pH		I	6.1	6.2	6.1	6.13
			II	6.3	6.1	6.3	6.23
			III	6.1	5.9	6.0	6.00
5	O ₂ terlarut	mg/l	I	4.3	4.9	4.9	4.70
			II	4.2	4.8	4.7	4.57
			III	4.0	4.2	4.2	4.13
6	CO ₂ bebas	mg/l	I	5.3	4.9	4.8	5.00
			II	5.6	5.1	4.9	5.20
			III	6.1	5.7	5.7	5.83
7	Nitrat	mg/l	I	0.54	0.57	0.61	0.58
			II	0.61	0.62	0.63	0.62
			III	0.48	0.44	0.49	0.47
8	Fosfat	mg/l	I	0.06	0.07	0.08	0.07
			II	0.07	0.08	0.08	0.07
			III	0.06	0.06	0.06	0.06

Lampiran 6. Hasil Regresi Hubungan Nitrat dan Fosfat Terhadap Kelimpahan Fitoplankton

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.893 ^a	.797	.729	3265.38291	.797	11.776	2	6	.008

a. Predictors: (Constant), fosfat, nitrat

ANOVA ^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2.51E+08	2	125561186.8	11.776	.008 ^a
	Residual	63976353	6	10662725.55		
	Total	3.15E+08	8			

a. Predictors: (Constant), fosfat, nitrat

b. Dependent Variable: kelimpahan

Coefficients ^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	21544.932	11677.711		1.845	.115
	nitrat	126307.4	52883.443	1.428	2.388	.054
	fosfat	-506551	520730.7	-.582	-.973	.368

a. Dependent Variable: kelimpahan

Descriptive Statistics

	Mean	Std. Deviation	N
kelimpahan	57495.11	6275.93347	9
nitrat	.5564	.07095	9
fosfat	.0678	.00721	9

Correlations

		kelimpahan	nitrat	fosfat
Pearson Correlation	kelimpahan	1.000	.875	.777
	nitrat	.875	1.000	.951
	fosfat	.777	.951	1.000
Sig. (1-tailed)	kelimpahan	.	.001	.007
	nitrat	.001	.	.000
	fosfat	.007	.000	.
N	kelimpahan	9	9	9
	nitrat	9	9	9
	fosfat	9	9	9