LAMPIRAN

Lampiran 1. Jumlah zooektoparasit pada ikan koi individu /cm^2

	3 - 5 cm			6 – 8 cm			9 – 12 cm			13 – 15 cm		
	I	Sr	Ss	I	Sr	Ss	I	Sr	Ss	I	Sr	Ss
1			1					6	7	2	4	4
2		2		1			2				6	12
3		1	2		1	1		2	5	3		10
4				1			1	10	3		9	4
5			1			1	1	3		1		7
6		2			1			7	4		5	5
7			1			1			5	2	6	9
8			1		1		1	21	2		4	6
9						1			2	3	5	4
10					1	1		3	4		11	11
	0	5	6	2	4	5	5	52	32	11	50	72

Keterangan :
I : Insang
Sr : Sirip
Ss : Sisik

Lampiran 2. Jumlah dan jenis zooektoparasit pada ukuran ikan koi

Jenis Zooektoparasit	I			II			III			IV		
	3 - 5 cm			6 – 8 cm			9 – 12 cm			13 – 15 cm		
	I	S	B	I	S	B	I	S	B	I	S	B
Lernaea sp	0	5	4	0	3	4	4	38	27	4	20	36
I. multifiliis	0	0	1	2	1	1	0	5	1	4	24	30
Argulus sp	0	0	1	0	0	0	1	9	4	3	6	6
Jumlah	0	5	6	2	4	5	5	52	32	11	50	72

Lampiran 03. Transformasi $\sqrt{y} + 0{,}5$ jumlah zooektoparasit pada ikan koi.

No.	Ukuran	Tempat	Jenis	Jumlah asli	Jumlah transformasi
1	I	Insang	L	0	0.50
2	I	Insang	I	0	0.50
3	I	Insang	A	0	0.50
4	I	Sirip	L	5	2.74
5	I	Sirip	I	0	0.50
6	I	Sirip	A	0	0.50
7	I	Sisik	L	4	2.50
8	I	Sisik	I	1	1.50
9	I	Sisik	A	1	1.50
10	II	Insang	L	0	0.50
11	II	Insang	I	2	1.91
12	II	Insang	A	0	0.50
13	II	Sirip	L	3	2.23
14	II	Sirip	I	1	1.50
15	II	Sirip	A	0	0.50
16	II	Sisik	L	4	2.50
17	II	Sisik	I	1	1.50
18	II	Sisik	A	0	0.50
19	III	Insang	L	4	2.50
20	III	Insang	I	1	1.50
21	III	Insang	A	0	0.50
22	III	Sirip	L	38	6.66
23	III	Sirip	I	5	2.74
24	III	Sirip	A	9	3.50
25	III	Sisik	L	27	5.70
26	III	Sisik	I	1	1.50
27	III	Sisik	A	4	2.50
28	IV	Insang	L	4	2.50
29	IV	Insang	I	4	2.50
30	IV	Insang	A	3	2.23
31	IV	Sirip	L	20	4.97
32	IV	Sirip	I	24	5.40
33	IV	Sirip	A	6	2.95
34	IV	Sisik	L	36	6.50
35	IV	Sisik	I	30	5.98
36	IV	Sisik	A	6	2.95

Lampiran 4. Anova antar ukuran ikan koi dan uji beda jarak nyata Duncan

Between-Subjects Factors

		Value Label	N
UKURAN	1.00	i	9
	2.00	ii	9
	3.00	III	9
	4.00	IV	9

Tests of Between-Subjects Effects

Dependent Variable: DATA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
UKURAN	50.439	3	16.813	8.010	.000
Error	67.169	32	2.099		
Total	320.481	35			

Post Hoc Tests

UKURAN

Homogeneous Subsets

DATA

Duncan[a,b]

UKURAN	N	Subset 1	Subset 2
i	9	1.1933	
ii	9	1.2933	
III	9		3.0111
IV	9		3.9978
Sig.		.885	.158

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 2.099.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Lampiran 5. Anova antar bagian badan ikan koi dan uji beda jarak nyata Duncan

Between-Subjects Factors

		Value Label	N
TEMPAT	1.00	INSANG	12
	2.00	SIRIP	12
	3.00	SISIK	12

Tests of Between-Subjects Effects

Dependent Variable: DATA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
TEMPAT	19.092	2	9.546	3.198	.054
Error	98.517	33	2.985		
Total	320.481	35			

Post Hoc Tests

TEMPAT

Homogeneous Subsets

DATA

Duncan[a,b]

TEMPAT	N	Subset 1	Subset 2
INSANG	12	1.3450	
SIRIP	12		2.8492
SISIK	12		2.9275
Sig.		1.000	.912

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 2.985.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Lampiran 6. Anova antar jenis zooektoparasit dan uji beda jarak nyata Duncan

Between-Subjects Factors

		Value Label	N
Jenis Zooektoparasit	1.00	L	3
	2.00	I	3
	3.00	A	3

Tests of Between-Subjects Effects

Dependent Variable: DATA1

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
JENIS	2280.222	2	1140.111	2.317	.180
Error	2952.667	6	492.111		
Total	11848.000	8			

Post Hoc Tests

Jenis Zooektoparasit

Homogeneous Subsets

DATA1

Duncan[a,b]

Jenis Zooektoparasit	N	Subset 1
A	3	10.0000
I	3	23.0000
L	3	48.3333
Sig.		.087

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 492.111.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

Lampiran 7. Anova insidensi antara ukuran ikan koi dan uji beda jarak nyata Duncan

Anova: Two-Factor Without Replication

SUMMARY	*Count*	*Sum*	*Average*	*Variance*
I	4	103.7	25.925	385.729
SR	4	182.6	45.65	288.33
SS	4	240.5	60.125	398.636
I	3	81.1	27.0333	471.623
II	3	90.8	30.2667	202.493
III	3	159.4	53.1333	156.493
IV	3	195.5	65.1667	445.443

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Ukuran	2357.66	2	1178.83	36.3739	0.00044	5.14325
Tempat	3023.63	3	1007.88	31.0991	0.00047	4.75706
Error	194.452	6	32.4086			
Total	5575.74	11				

Lampiran 8. Anova antara jenis zooektoparasit dengan ukuran ikan koi

Between-Subjects Factors

		Value Label	N
Jenis zooektoparasit	1.00	A	12
	2.00	I	12
	3.00	L	12
Ukuran	1.00	I	9
	2.00	II	9
	3.00	III	9
	4.00	IV	9

Tests of Between-Subjects Effects

Dependent Variable: DATA3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
JENIS	570.056	2	285.028	4.379	.024
UKURAN	1218.667	3	406.222	6.242	.003
JENIS * UKURAN	667.500	6	111.250	1.709	.162
Error	1562.000	24	65.083		
Total	5672.000	35			

Post Hoc Tests

Jenis zooektoparasit

Homogeneous Subsets

DATA3

Duncan[a,b]

Jenis zooektoparasit	N	Subset 1	Subset 2
A	12	2.5000	
I	12	5.7500	5.7500
L	12		12.0833
Sig.		.334	.066

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 65.083.

a. Uses Harmonic Mean Sample Size = 12.000.

b. Alpha = .05.

Homogeneous Subsets

DATA3

Duncan[a,b]

Ukuran	N	Subset 1	Subset 2
I	9	1.2222	
II	9	1.2222	
III	9		9.8889
IV	9		14.7778
Sig.		1.000	.211

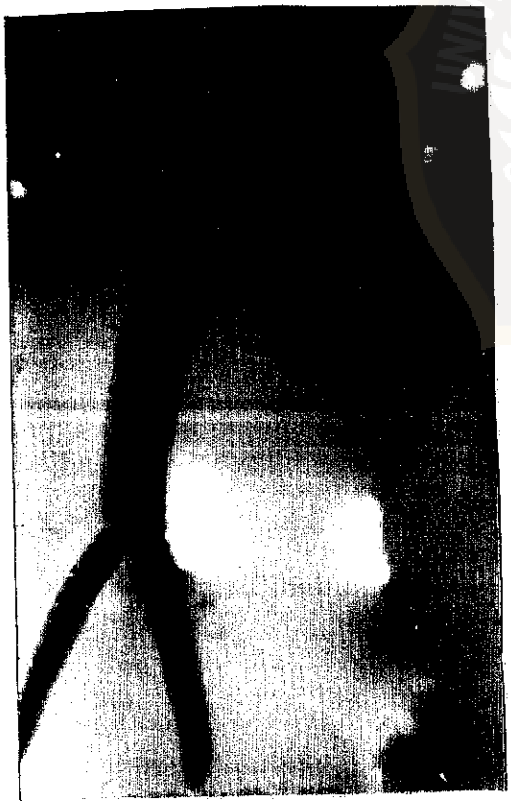
Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 65.083.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Lampiran 10. Dokumentasi Penelitian

Gambar 1. Kolam Pemeliharaan Ikan Koi



Gambar 2. *Lernaea* sp

Gambar 3. *Argulus* sp

DEPARTEMEN KESEHATAN R.I.
DIREKTORAT JENDERAL PEMBERANTASAN PENYAKIT MENULAR DAN PENYEHATAN LINGKUNGAN PEMUKIMAN
BALAI TEKNIK KESEHATAN LINGKUNGAN
JALAN POLOWIJAN No. 11 TELP. (0274) 376288 FAX. 384637 YOGYAKARTA 55133

PEMERIKSAAN KIMIA DI LABORATORIUM:

Jenis air : Air Kolam.
Asal sample : Semarang.

Dikirim/diambil oleh : Ika Analia.
MIPA UNDIP Semarang
Diambil/diterima tgl : 22-1-2001/23-1- 2001

Kode no.lab :
455 K.Air kolam A-I
456 K.Air kolam A-II

Pemeriksaan Air Kolam (parameter permintaan)

No	Parameter	satuan	Hasil analisa	
			455 K	456 K
1.	pH	-	8,7	8,0
2.	Amonia (NH_4-N)	mg/l	0,1608	0,2733

Yogyakarta, 26 Januari 2001

Mengetahui
Kepala Balai Teknik Kesehatan
Lingkungan Yogyakarta

Drs.Maryadi Broto S.MS
NIP.140 093 408

Koordinator Lab. Kimia

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