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LAMPIRAN

Lampiran 1. Struktur ukuran perbandingan hasil tangkapan hasil uji Anova dan Tukey

Descriptives

Y								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Trawl	870	23.1739	6.87348	.23303	22.7165	23.6313	7.50	45.50
gill net	138	24.4391	3.28570	.27970	23.8860	24.9922	17.80	40.00
lift net	81	15.9086	3.47905	.38656	15.1394	16.6779	8.00	30.00
Total	1089	22.7938	6.63118	.20094	22.3996	23.1881	7.50	45.50

Test of Homogeneity of Variances

Y	Levene Statistic	df1	df2	Sig.
	61.425	2	1086	.000

ANOVA

Y	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4339.118	2	2169.559	54.160	.000
Within Groups	43502.950	1086	40.058		
Total	47842.069	1088			

Multiple Comparisons

Dependent Variable: Y

	(I) X	(J) X	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Bonferroni	Trawl	gill net	-1.26522	.57993	.088	-2.6557	.1253
		lift net	7.26527*	.73525	.000	5.5024	9.0282
	gill net	Trawl	1.26522	.57993	.088	-.1253	2.6557
		lift net	8.53049*	.88590	.000	6.4064	10.6546
	lift net	Trawl	-7.26527*	.73525	.000	-9.0282	-5.5024

		gill net	-8.53049*	.88590	.000	-10.6546	-6.4064
Games-Howell	Trawl	gill net	-1.26522*	.36405	.002	-2.1220	-.4085
		lift net	7.26527*	.45137	.000	6.1966	8.3340
	gill net	Trawl	1.26522*	.36405	.002	.4085	2.1220
		lift net	8.53049*	.47714	.000	7.4017	9.6593
	lift net	Trawl	-7.26527*	.45137	.000	-8.3340	-6.1966
		gill net	-8.53049*	.47714	.000	-9.6593	-7.4017

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Y

Tukey HSD

(I) X	(J) X	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Trawl	gill net	-1.26522	.57993	.075	-2.6263	.0958
	lift net	7.26527*	.73525	.000	5.5397	8.9908
gill net	Trawl	1.26522	.57993	.075	-.0958	2.6263
	lift net	8.53049*	.88590	.000	6.4513	10.6096
lift net	Trawl	-7.26527*	.73525	.000	-8.9908	-5.5397
	gill net	-8.53049*	.88590	.000	-10.6096	-6.4513

*. The mean difference is significant at the 0.05 level.

Y

Tukey HSD

X	N	Subset for alpha = 0.05	
		1	2
lift net	81	15.9086	
Trawl	870		23.1739
gill net	138		24.4391
Sig.		1.000	.206

Means for groups in homogeneous subsets are displayed.

Lampiran 2. Frekuensi panjang ikan sapu-sapu papan *Scomberomorus gettatus*, Fc, Frekuensi kumulatif dan logaritma natural kelompok umur 1, 2, 3 dan 4

Kohor 1

Interval	Frekuensi	Tk	F*TK	TK-x	F(TK-x)2	Fc	In Fc	d In Fc
7-9	3	8	24	-7.5922865	172.9284	0.7325	-0.31123	2.2474
9-11	16	10	160	-5.5922865	500.3787	6.9325	1.936216	1.5656
11-13	39	12	468	-3.5922865	503.2764	33.1759	3.501823	0.8838
13-15	67	14	938	-1.5922865	169.8702	80.2854	4.385588	0.2019
15-17	107	16	1712	0.4077135	17.78664	98.2496	4.587511	-0.4799
17-19	131	18	2358	2.4077135	759.418	60.8001	4.107592	
	363		5660		2123.658			
	x	15.59229					a	4.974819
	dl	1.666667		s	2.422078		b	-0.34092
	s2	5.86646		L rata-rata	15.7972		L1	-14.5923

Kohor 2

Interval	Frekuensi	Tk	F*TK	TK-x	F(TK-x)2	Fc	In Fc	d In Fc
19-21	113	20	2260	-3.0563674	1055.576	49.6779	3.905559	0.8483
21-23	117	22	2574	-1.0563674	130.5617	116.0297	4.753847	0.0233
23-25	132	24	3168	0.9436326	117.5384	118.7593	4.777099	-0.8018
25-27	117	26	3042	2.9436326	1013.802	53.2670	3.975317	
	479		11044		2317.478			
	x	23.05637					a	9.098635
	dl	1.5		s	2.201881		b	-0.41252
	s2	4.848281		L rata-rata	23.22		L2	-22.0564

Kohor 3

Interval	Frekuensi	Tk	F*TK	TK-x	F(TK-x)2	Fc	In Fc	d In Fc
27-29	66	28	1848	-2.4397906	392.8702	27.7886	3.324625	0.6429
29-31	41	30	1230	-0.4397906	7.930046	52.8521	3.967497	-0.2501
31-33	60	32	1920	1.56020942	146.0552	41.1557	3.717361	-1.1431
33-35	24	34	816	3.56020942	304.2022	13.1211	2.574219	
	191		5814		851.0576			
	x	30.43979					a	13.14496
	dl	1.5		s	2.116424		b	-0.4465
	s2	4.47925		L rata-rata	30.62		L3	-29.4398

Kelompok umur 4

Interval	Frekuensi	Tk	F*TK	TK-x	F(TK-x)2	Fc	In Fc	d In Fc
35-37	31	36	1116	-1.75	94.9375	11.8604	2.473206	0.2574
37-39	10	38	380	0.25	0.625	15.3423	2.730616	-0.4290
39-41	9	40	360	2.25	45.5625	9.9901	2.301599	-1.1154
41-43	4	42	168	4.25	72.25	3.2745	1.186154	-1.8019
43-45	1	44	44	6.25	39.0625	0.5403	-0.61572	-2.4883
45-47	1	46	46	8.25	68.0625	0.0449	-3.10402	
	56		2114		320.5			
	x	37.75					a	12.6131
	dl	1.666667		s	2.413974		b	-0.34321
	s2	5.827273		L rata-rata	37.76		L4	-36.75

Lampiran 3. Table frekuensi panjang ikan sapu-sapu berdasarkan waktu pengambilan sampel

panjang ikan	9 Oktober 2020	12 ONovember 2020
7	1	0
8	2	0
9	3	3
10	6	4
11	10	8
12	11	10
13	19	14
14	13	21
15	20	14
16	30	22
17	33	46
18	33	30
19	22	41
20	12	39
21	27	17
22	17	21
23	13	15
24	32	24
25	26	32
26	37	22
27	25	47
28	22	16
29	15	19
30	12	14
31	10	11
32	8	12
33	6	7
34	5	6
35	7	9
36	6	9
37	11	7
38	2	0
39	5	4
40	0	1
41	3	1
42	1	0
43	1	0
44	0	1
45	1	0
	507	547

Lampiran 4. Table pendugaan parameter pertumbuhan dari metode ELEFAN I pada aplikasi FISAT II

Scores: ELEFAN I Method								
K\Loo	52.00	52.50	53.00	53.50	54.00	54.50	55.00	▲
0.25	0.118	0.118	0.207	0.138	0.138	0.046	0.046	
0.30	0.045	0.045	0.067	0.096	0.064	0.064	0.064	
0.35	0.156	0.156	0.156	0.151	0.264	0.264	0.264	
0.40	0.203	0.070	0.070	0.070	0.047	0.047	0.047	
0.45	0.047	0.047	0.047	0.068	0.277	0.485	0.485	
0.50	0.277	0.277	0.485	0.485	0.485	0.467	0.467	
0.55	0.485	0.467	0.467	0.128	0.128	0.128	0.128	
0.60	0.128	0.128	0.128	0.128	0.086	0.086	0.086	
0.65	0.128	0.086	0.086	0.086	0.209	0.209	0.209	
0.70	0.209	0.209	0.209	0.209	0.366	0.366	0.366	

Pendugaan parameter pertumbuhan dari ELEFEN I

Nilai-nilai yang dimaksud pada ELEFEN I :

SS = 1

SL = 18

Nilai yang dihasilkan pada metode ELEFEN I :

$L_{\infty} = 53$

K = 0,5

Rn = 0,485

Dimana :

SS = Starting Sample

SL = Starting Length

K = Koefisien laju pertumbuhan

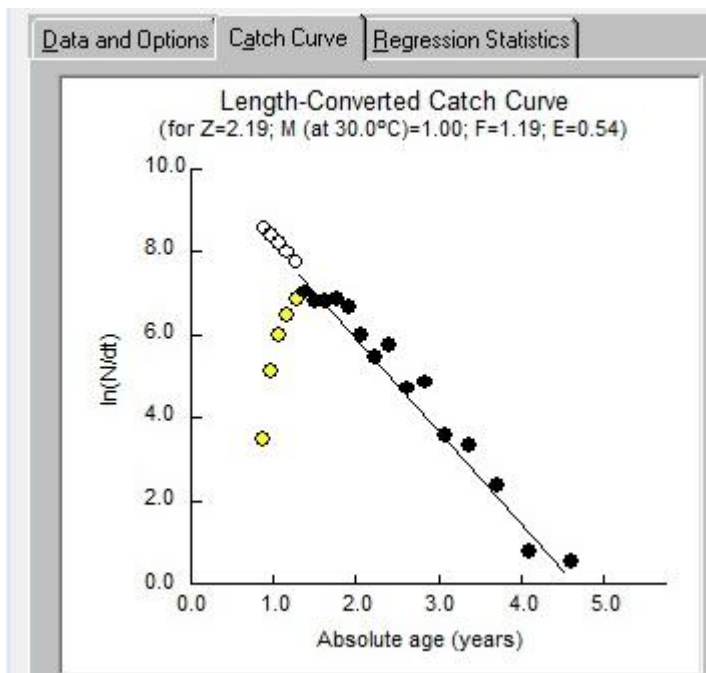
L_{∞} = Panjang asimtot ikan (cm)

Lampiran 5. Hubungan antara panjang ikan sapu-sapu pada berbagai tingkatan umur di perairan Danau Tempe Kabupaten Wajo.

L oo	K	to	t	Lt
53	0.5	-0.55	-0.55	0.00
53	0.5	-0.55	0	12.74
53	0.5	-0.55	1	28.58
53	0.5	-0.55	2	38.19
53	0.5	-0.55	3	44.02
53	0.5	-0.55	4	47.55
53	0.5	-0.55	5	49.70
53	0.5	-0.55	6	51.00
53	0.5	-0.55	7	51.78
53	0.5	-0.55	8	52.26
53	0.5	-0.55	9	52.55
53	0.5	-0.55	10	52.73
53	0.5	-0.55	11	52.84
53	0.5	-0.55	12	52.90
53	0.5	-0.55	13	52.94
53	0.5	-0.55	14	52.96
53	0.5	-0.55	15	52.98
53	0.5	-0.55	16	52.99
53	0.5	-0.55	17	52.99
53	0.5	-0.55	18	53.00
53	0.5	-0.55	19	53.00
53	0.5	-0.55	20	53.00
53	0.5	-0.55	21	53.00
53	0.5	-0.55	22	53.00
53	0.5	-0.55	23	53.00
53	0.5	-0.55	24	53.00
53	0.5	-0.55	25	53.00
53	0.5	-0.55	26	53.00
53	0.5	-0.55	27	53.00
53	0.5	-0.55	28	53.00
53	0.5	-0.55	29	53.00
53	0.5	-0.55	30	53.00
53	0.5	-0.55	31	53.00
53	0.5	-0.55	32	53.00
53	0.5	-0.55	33	53.00
53	0.5	-0.55	34	53.00
53	0.5	-0.55	35	53.00
53	0.5	-0.55	36	53.00
53	0.5	-0.55	37	53.00

log (-to) = - 0,3922 - 0,2752 (log Loo) - 1,038 (log K)							
log (-to) = - 0,3922 - 0,2752 (log 53) - 1,038 (log 0.5)							
log (-to) = - 0,3922 - 0,2752 (1.7243) - 1,038 (-0.3010)							
log (-to) = - 0,3922 - 0,4745 + 0.3125							
log (-to) = -0.5542							
(-to) = 0.55							
to	-0.55						

Lampiran 6. Nilai dugaan laju mortalitas dan laju eksploitasi



Mortalitas Alami (M)				
$\ln M = -0,0152 - 0,279 \ln (L^\infty) + 0,6543 \ln (K) + 0,4634 \ln (T)$				
$\ln M = -0,0152 - 0,279 \ln (53) + 0,6543 \ln (0.5) + 0,4634 \ln (30)$				
$\ln M = -0,0152 - 0,279 (3.970) + 0,6543 (-0.693) + 0,4634 (3,401)$				
$\ln M = -0,0152 - 1.1076 + (-0.4534) + 1.5760$				
$\ln M = -0.03$				
$M = \exp 0.03 = 1.00$ per tahun.				

$F = Z - M$	
$F = 2.19 - 1.03$	
$F = 1.16$	
$E = F/Z$	
$E = 1.16/2.19$	
$E = 0.53$	

Lampiran 7. Table nilai dugaan *Yield per recruitment* dan laju eksploitasi total ikan sapu-sapu

E	M	K	M/K	E.U ^M /K	m	1+m	1+2 m	1+3 m	E	Y/R
0.00	1.00	0.5	2	0.0000	0.5000	1.5000	2.0000	2.5000	0.00	0.00000
0.05	1.00	0.5	2	0.0058	0.4750	1.4750	1.9500	2.4250	0.05	0.00271
0.10	1.00	0.5	2	0.0115	0.4500	1.4500	1.9000	2.3500	0.10	0.00534
0.15	1.00	0.5	2	0.0173	0.4250	1.4250	1.8500	2.2750	0.15	0.00787
0.20	1.00	0.5	2	0.0231	0.4000	1.4000	1.8000	2.2000	0.20	0.01030
0.25	1.00	0.5	2	0.0288	0.3750	1.3750	1.7500	2.1250	0.25	0.01264
0.30	1.00	0.5	2	0.0346	0.3500	1.3500	1.7000	2.0500	0.30	0.01487
0.35	1.00	0.5	2	0.0404	0.3250	1.3250	1.6500	1.9750	0.35	0.01699
0.40	1.00	0.5	2	0.0461	0.3000	1.3000	1.6000	1.9000	0.40	0.01900
0.45	1.00	0.5	2	0.0519	0.2750	1.2750	1.5500	1.8250	0.45	0.02090
0.50	1.00	0.5	2	0.0577	0.2500	1.2500	1.5000	1.7500	0.50	0.02268
0.55	1.00	0.5	2	0.0634	0.2250	1.2250	1.4500	1.6750	0.55	0.02433
0.60	1.00	0.5	2	0.0692	0.2000	1.2000	1.4000	1.6000	0.60	0.02586
0.65	1.00	0.5	2	0.0750	0.1750	1.1750	1.3500	1.5250	0.65	0.02725
0.70	1.00	0.5	2	0.0807	0.1500	1.1500	1.3000	1.4500	0.70	0.02852
0.75	1.00	0.5	2	0.0865	0.1250	1.1250	1.2500	1.3750	0.75	0.02964
0.80	1.00	0.5	2	0.0923	0.1000	1.1000	1.2000	1.3000	0.80	0.03063
0.85	1.00	0.5	2	0.0980	0.0750	1.0750	1.1500	1.2250	0.85	0.03148
0.90	1.00	0.5	2	0.1038	0.0500	1.0500	1.1000	1.1500	0.90	0.03220
0.95	1.00	0.5	2	0.1096	0.0250	1.0250	1.0500	1.0750	0.95	0.03277
1.00	1.00	0.5	2	0.1153	0.0000	1.0000	1.0000	1.0000	1.00	0.03322
1.05	1.00	0.5	2	0.1211	-0.0250	0.9750	0.9500	0.9250	1.05	0.03354
1.10	1.00	0.5	2	0.1269	-0.0500	0.9500	0.9000	0.8500	1.10	0.03374
1.15	1.00	0.5	2	0.1326	-0.0750	0.9250	0.8500	0.7750	1.15	0.03383
1.20	1.00	0.5	2	0.1384	-0.1000	0.9000	0.8000	0.7000	1.20	0.03384
1.25	1.00	0.5	2	0.1442	-0.1250	0.8750	0.7500	0.6250	1.25	0.03378
1.30	1.00	0.5	2	0.1499	-0.1500	0.8500	0.7000	0.5500	1.30	0.03365
1.35	1.00	0.5	2	0.1557	-0.1750	0.8250	0.6500	0.4750	1.35	0.03346
1.40	1.00	0.5	2	0.1615	-0.2000	0.8000	0.6000	0.4000	1.40	0.03314

$y/r = E \cdot U^M / K (1 - (3U/1+m) + 3(U^2/1+2m) - (U^3/1+3m))$										
Dimana =										
	$U = 1 - (L'/L_{\infty})$									
	$E = F/Z$									
	$m = (1-E)/(MK)$									
KET.	E = Laju Eksploitasi									
	L' = Batas terkecil ukuran kelas panjang ikan yang berada pada penangkapan penuh									
	M = Laju Mortalitas alami									
	K = Koefisien laju pertumbuhan									
	L _∞ = Panjang asimptot ikan									

Lampiran 8. Dokumentasi



