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LAMPIRAN

Lampiran 1. Hasil Pengamatan Fekunditas Ikan Layang (*Decapterus macrosoma*) Pada Setiap Pengamatan

Pengamatan Pertama (14 November 2012)

L (cm)	W (g)	Seks	TKG	BG (g)	BGS (g)	Fekunditas (Butir)
24,4	159,98	B	V	3,79	0,88	122571
25,4	167,8	B	IV	4,41	0,99	121911
26,6	173,13	B	V	5,28	1,54	137984
26	178,96	B	V	4,07	1,06	148778
27,1	212,66	B	IV	5,33	1,83	147106
25,4	166,87	B	III	3,99	1,14	123405
25	152,52	B	III	3,39	0,74	122362
26,5	180,57	B	V	3,78	0,75	122848
25,7	161,46	B	V	3,51	0,93	122096
27,1	189,86	B	IV	4,92	1,26	124218
25,8	161,81	B	IV	3,84	1,81	123032
26,5	171,55	B	IV	3,93	1,54	123246
26,4	166,66	B	IV	3,79	0,92	123878
26,5	177,72	B	IV	4,34	1,1	129488
26	158,85	B	IV	3,68	1,19	127162
28,3	222,15	B	IV	4,5	1,21	127778
25,1	150,29	B	III	2,67	0,74	119765
28	211,98	B	V	5,89	1,39	128886
26,8	204,67	B	IV	6,35	1,74	128939
26,3	183,67	B	V	5,41	5,51	129071
26,3	182,18	B	III	3,51	1,23	129530
25,3	171,97	B	IV	4,94	1,28	124431
27,1	187,76	B	III	3,64	1,07	124202
26,7	172,76	B	III	4,06	1,13	148669
26,4	166,79	B	IV	5,03	1,49	147665
27,2	187,77	B	IV	3,77	1,13	130074
27,1	191,01	B	IV	5	1,37	125520
24,6	142,46	B	V	3,93	1,28	124804
25,4	133,35	B	V	2,07	1,09	122096
26,2	159,38	B	V	3,62	1	124372
25,7	163,91	B	IV	6,03	1,73	135887
25,3	150,78	B	V	3,27	1,12	135156
25,8	151,68	B	V	3,48	1,28	134894
26,3	173,81	B	IV	4,77	1,57	147601
24,1	126,39	B	IV	3,77	1,12	129689
26,4	186,33	B	V	4,29	1,35	129985
25,6	156,1	B	V	3,58	1,19	132500
23,6	117,42	B	V	3,37	1,2	123544

Lampiran 1. Lanjutan.....

L (cm)	W (g)	Seks	TKG	BG (g)	BGS (g)	Fekunditas (Butir)
25,6	159,72	B	V	3,68	1,32	124348
27,1	186,73	B	III	4,04	1,66	124997
26,6	180,62	B	IV	4,79	1,29	139885
26,8	168,93	B	V	3,34	1,07	137121
24,9	145,91	B	V	3,65	1,09	124804
26,4	171,22	B	V	4,53	0,95	126366
25,9	151,16	B	V	4,35	1,08	129077
26	154,02	B	V	4,31	1,02	137066
25,8	173,15	B	IV	5,35	1,41	136542
26,7	188,87	B	V	3,23	0,86	147589
22,9	120,21	B	III	2,84	0,98	127162
25	141,85	B	III	2,6	1,22	129985
25,1	146,84	B	III	3	1,29	133095
25,2	171,62	B	III	4,36	1,23	134238
25,2	140,68	B	III	3,43	1,17	136532
25,9	179,88	B	III	3,67	1,26	157662
27,3	204,37	B	V	2,53	0,67	136092
24,2	149,45	B	III	4,3	1,12	147601
24,7	155,28	B	III	3,06	0,54	134024
24,2	145,04	B	V	3,31	0,74	132656
24,5	141,38	B	III	3,11	0,88	130774
23,6	136,74	B	III	3,37	0,91	137121
25,3	167,05	B	IV	4,18	0,78	133474

Pengamatan Kedua (28 November 2012)

L (cm)	W (g)	Seks	TKG	BG (g)	BGS (g)	Fekunditas (butir)
253	159,23	B	V	3,56	1,27	124578

Pengamatan Ketiga (16 November 2012)

L (cm)	W (g)	Seks	TKG	BG (g)	BGS (g)	Fekunditas (Butir)
27,9	210,58	B	IV	7,13	2,33	141528
28,6	76,43	B	IV	7,89	1,92	144889
27,1	201,1	B	V	6,63	1,48	135396
27,4	200,12	B	V	5,35	1,97	135112
29	236,21	B	V	7,39	2,08	141633
27,9	201,21	B	IV	8,05	2,21	156777
27,5	217,34	B	IV	7,65	1,98	143265
26,6	189,43	B	IV	7,26	1,78	140786
27,3	200,99	B	III	6,06	2,38	133451
26,3	178,95	B	III	5,8	2,39	129432
26,9	189,45	B	IV	7,67	2,5	139191
26,7	79,72	B	IV	8,16	2,24	161254

Pengamatan Keempat (29 November 2012)

L (cm)	W (g)	Seks	TKG	BG (g)	BGS (g)	Fekunditas (Butir)
28,3	208,23	B	V	3,68	1,64	121997
25,2	173,28	B	IV	4,75	1,88	124555
25,4	166,34	B	IV	5,81	2,51	125498
24,2	140,58	B	III	3,28	1,11	119095
24,9	155,2	B	V	2,65	1,08	115358
25,4	164,52	B	III	2,58	0,98	112260
26	174,27	B	V	3,44	1,12	125728
25,7	168,13	B	IV	6,2	1,54	127482
24,1	131,9	B	III	4,44	1,51	122157
24,1	140,17	B	IV	4,69	1,62	123010
24,8	153,98	B	III	4,72	1,72	124686
24,4	150,65	B	III	2,4	1,05	112966
23,1	120,43	B	III	4,81	1,75	119795
24,8	163,1	B	III	3,53	1,56	119865

Lampiran 2. Analisis Data Hubungan Fekunditas dengan Panjang Total Ikan Layang (*Decapterus macrosoma*) Pada Setiap Pengamatan

Pengamatan Pertama (14 November 2012)

L	F	log L	log F	log L X log F	log L2
229	127162	2,3598	5,1044	12,04544	5,5688
236	123544	2,3729	5,0918	12,08244	5,6307
236	137121	2,3729	5,1371	12,18990	5,6307
241	129689	2,3820	5,1129	12,17902	5,6740
242	147601	2,3838	5,1691	12,32215	5,6826
242	132656	2,3838	5,1227	12,21164	5,6826
242	130774	2,3838	5,1165	12,19684	5,6826
246	124804	2,3909	5,0962	12,18475	5,7166
247	134024	2,3927	5,1272	12,26779	5,7250
249	124804	2,3962	5,0962	12,21158	5,7418
250	122362	2,3979	5,0876	12,19987	5,7501
250	129985	2,3979	5,1139	12,26281	5,7501
251	119765	1,7076	5,0783	8,67160	2,9158
251	133095	2,3997	5,1242	12,29632	5,7584
251	134238	2,3997	5,1279	12,30523	5,7584
252	136532	2,4014	5,1352	12,33175	5,7667
253	124431	2,4031	5,0949	12,24373	5,7750
253	135156	2,4031	5,1308	12,33002	5,7750
253	133474	2,4031	5,1254	12,31695	5,7750
254	123405	2,4048	5,0913	12,24381	5,7832
254	122096	2,4048	5,0867	12,23267	5,7832
254	132500	2,4048	5,1222	12,31808	5,7832
254	124348	2,4048	5,0946	12,25176	5,7832
254	122096	2,4048	5,0867	12,23267	5,7832
257	135887	2,4099	5,1332	12,37062	5,8078
258	123032	2,4116	5,0900	12,27519	5,8159
258	134894	2,4116	5,1300	12,37159	5,8159
258	136542	2,4116	5,1353	12,38431	5,8159
259	129077	2,4133	5,1108	12,33401	5,8240
259	157662	2,4133	5,1977	12,54367	5,8240
260	148778	2,4150	5,1725	12,49154	5,8321
260	127162	2,4150	5,1044	12,32689	5,8321
260	137066	2,4150	5,1369	12,40555	5,8321
269	124372	2,4298	5,0947	12,37891	5,9037
263	129071	2,4200	5,1108	12,36798	5,8562
263	129530	2,4200	5,1124	12,37171	5,8562
263	147601	2,4200	5,1691	12,50897	5,8562
264	123878	2,4216	5,0930	12,33321	5,8642

Lampiran 2. Lanjutan....

L	F	log L	log F	log L X log F	log L²
264	147665	2,4216	5,1693	12,51794	5,8642
264	129985	2,4216	5,1139	12,38382	5,8642
264	126366	2,4216	5,1016	12,35413	5,8642
265	122848	2,4232	5,0894	12,33279	5,8721
265	123246	2,4232	5,0908	12,33619	5,8721
265	129488	2,4232	5,1122	12,38819	5,8721
266	139885	2,4249	5,1458	12,47789	5,8801
267	148669	2,4265	5,1722	12,55045	5,8880
267	147589	2,4265	5,1691	12,54277	5,8880
268	128939	2,4281	5,1104	12,40870	5,8958
268	137121	2,4281	5,1371	12,47358	5,8958
271	147106	2,4330	5,1676	12,57269	5,9193
271	124218	2,4330	5,0942	12,39399	5,9193
271	124202	2,4330	5,0941	12,39386	5,9193
271	125520	2,4330	5,0987	12,40501	5,9193
271	124997	2,4330	5,0969	12,40060	5,9193
272	130074	2,4346	5,1142	12,45085	5,9271
273	136092	2,4362	5,1338	12,50685	5,9349
280	128886	2,4472	5,1102	12,50548	5,9886
283	127778	2,4518	5,1065	12,51994	6,0113
244	122571	2,3874	5,0884	12,14797	5,6996
254	121911	2,4048	5,0860	12,23109	5,7832
266	137984	2,4249	5,1398	12,46348	5,8801
	Jumlah	146,4046	312,2017	45708,54190	21434,2977

Pengamatan Kedua (28 November 2012)

L	F	log L	log F	log L X log F	LOG L²
253	124578	2,4031	5,0954	12,2450	5,7750

Pengamatan Ketiga (16 Desember 2012)

L	F	log L	log F	log L X log F	log L2
279	141528	2,4456	5,1508	12,5969	5,9810
28,6	144889	1,4564	5,1610	7,5164	2,1210
271	135396	2,4330	5,1316	12,4850	5,9193
274	135112	2,4378	5,1307	12,5074	5,9426
290	141633	2,4624	5,1512	12,6842	6,0634
279	156777	2,4456	5,1953	12,7056	5,9810
275	143265	2,4393	5,1561	12,5775	5,9503
266	140786	2,4249	5,1486	12,4846	5,8801
273	133451	2,4362	5,1253	12,4861	5,9349
263	129432	2,4200	5,1120	12,3709	5,8562
269	139191	2,4298	5,1436	12,4977	5,9037
267	161254	2,4265	5,2075	12,6361	5,8880
Jumlah		28,2573	61,8138	145,5485	67,4215

Pengamatan Keempat (29 Desember 2012)

L	F	log L	log F	log L X log F	log L2
231	11979 5	2,3636	5,0784	12,0035	5,5867
241	12215 7	2,3820	5,0869	12,1171	5,6740
241	12301 0	2,3820	5,0899	12,1243	5,6740
242	11909 5	2,3838	5,0759	12,1000	5,6826
244	11296 6	2,3874	5,0529	12,0634	5,6996
248	12468 6	2,3945	5,0958	12,2017	5,7334
248	11986 5	2,3945	5,0787	12,1607	5,7334
249	11535 8	2,3962	5,0620	12,1297	5,7418
252	12455 5	2,4014	5,0954	12,2360	5,7667
254	12549 8	2,4048	5,0986	12,2614	5,7832
254	11226 0	2,4048	5,0502	12,1450	5,7832
257	12748 2	2,4099	5,1054	12,3038	5,8078
260	12572 8	2,4150	5,0994	12,3150	5,8321
283	12199 7	2,4518	5,0863	12,4706	6,0113
JUMLA H		33,571 7	71,1561	170,6321	80,5098

Lampiran 3. Analisis Data Hubungan Fekunditas dengan Bobot Tubuh Ikan Layang (*Decapterus macrosoma*) Pada Setiap Pengamatan

Pengamatan Pertama (14 November 2012)

W	F	W X F	W2
117,42	123544	14506536,48	13787,456
120,21	127162	15286144,02	14450,444
126,39	129689	16391392,71	15974,432
133,35	122096	16281501,6	17782,223
136,74	137121	18749925,54	18697,828
140,68	136532	19207321,76	19790,862
141,38	130774	18488828,12	19988,304
141,85	129985	18438372,25	20121,423
142,46	124804	17779577,84	20294,852
145,04	132656	19240426,24	21036,602
145,91	124804	18210151,64	21289,728
146,84	133095	19543669,8	21561,986
149,45	147601	22058969,45	22335,303
150,29	119765	17999481,85	22587,084
150,78	135156	20378821,68	22734,608
151,16	129077	19511279,32	22849,346
151,68	134894	20460721,92	23006,822
152,52	122362	18662652,24	23262,35
154,02	137066	21110905,32	23722,16
155,28	134024	20811246,72	24111,878
156,1	132500	20683250	24367,21
158,85	127162	20199683,7	25233,323
159,38	124372	19822409,36	25401,984
159,72	124348	19860862,56	25510,478
159,98	122571	19608908,58	25593,6
161,46	122096	19713620,16	26069,332
161,81	123032	19907807,92	26182,476
163,91	135887	22273238,17	26866,488
166,66	123878	20645507,48	27775,556
166,79	147665	24629045,35	27818,904
166,87	123405	20592592,35	27845,597
167,05	133474	22296831,7	27905,703
167,8	121911	20456665,8	28156,84
168,93	137121	23163850,53	28537,345
171,22	126366	21636386,52	29316,288
171,55	123246	21142851,3	29429,403
171,62	134238	23037925,56	29453,424
171,97	124431	21398399,07	29573,681

Lampiran 3. Lanjutan.....

W	F	W X F	W²
172,76	148669	25684056,4	29846,02
173,13	137984	23889169,9	29974
173,15	136542	23642247,3	29980,92
173,81	147601	25654529,8	30209,92
177,72	129488	23012607,4	31584,4
178,96	148778	26625310,9	32026,68
179,88	157662	28360240,6	32356,81
180,57	122848	22182663,4	32605,52
180,62	139885	25266028,7	32623,58
182,18	129530	23597775,4	33189,55
183,67	129071	23706470,6	33734,67
186,33	129985	24220105,1	34718,87
186,73	124997	23340689,8	34868,09
187,76	124202	23320167,5	35253,82
187,77	130074	24423995	35257,57
188,87	147589	27875134,4	35671,88
189,86	124218	23584029,5	36046,82
191,01	125520	23975575,2	36484,82
204,37	136092	27813122	41767,1
204,67	128939	26389945,1	41889,81
211,98	128886	27321254,3	44935,52
212,66	147106	31283562	45224,28
222,15	127778	28385882,7	49350,62
	Jumlah	603391118	844955,5

Pengamatan Kedua (28 November 2012)

W	F	F X W	W²
159,23	124578	19836554,94	25354,19

Pengamatan Ketiga (16 November 2012)

W	F	W X F	W2
76,43	144889	11073866,27	5841,5449
79,72	161254	12855168,88	6355,2784
178,95	129432	23161856,4	32023,103
189,43	140786	26669091,98	35883,725
189,45	139191	26369734,95	35891,303
200,12	135112	27038613,44	40048,014
200,99	133451	26822316,49	40396,98
201,1	135396	27228135,6	40441,21
201,21	156777	31545100,17	40485,464
210,58	141528	29802966,24	44343,936
217,34	143265	31137215,1	47236,676
236,21	141633	33455130,93	55795,164
	Jumlah	307159196,5	424742,4

Pengamatan Keempat (29 Desember 2012)

W	F	W X F	W2
208,23	121997	25403435,31	43359,733
173,28	124555	21582890,4	30025,958
166,34	125498	20875337,32	27668,996
140,58	119095	16742375,1	19762,736
155,2	115358	17903561,6	24087,04
164,52	112260	18469015,2	27066,83
174,27	125728	21910618,56	30370,033
168,13	127482	21433548,66	28267,697
131,9	122157	16112508,3	17397,61
140,17	123010	17242311,7	19647,629
153,98	124686	19199150,28	23709,84
150,65	112966	17018327,9	22695,423
120,43	119795	14426911,85	14503,385
163,1	119865	19549981,5	26601,61
	Jumlah	267869973,7	355164,52

Lampiran 4. Analisis Data Hubungan Fekunditas dengan Bobot Gonad Ikan Layang (*Decapterus macrosoma*) Pada Setiap Pengamatan

Pengamatan Pertama

BG	F	BG X F	BG²
2,07	122096	252738,72	4,2849
2,53	136092	344312,76	6,4009
2,6	129985	337961	6,76
2,67	119765	319772,55	7,1289
2,84	127162	361140,08	8,0656
3	133095	399285	9
3,06	134024	410113,44	9,3636
3,11	130774	406707,14	9,6721
3,23	147589	476712,47	10,4329
3,27	135156	441960,12	10,6929
3,31	132656	439091,36	10,9561
3,34	137121	457984,14	11,1556
3,37	123544	416343,28	11,3569
3,37	137121	462097,77	11,3569
3,39	122362	414807,18	11,4921
3,43	136532	468304,76	11,7649
3,48	134894	469431,12	12,1104
3,51	122096	428556,96	12,3201
3,51	129530	454650,3	12,3201
3,58	132500	474350	12,8164
3,62	124372	450226,64	13,1044
3,64	124202	452095,28	13,2496
3,65	124804	455534,6	13,3225
3,67	157662	578619,54	13,4689
3,68	127162	467956,16	13,5424
3,68	124348	457600,64	13,5424
3,77	130074	490378,98	14,2129
3,77	129689	488927,53	14,2129
3,78	122848	464365,44	14,2884
3,79	122571	464544,09	14,3641
3,79	123878	469497,62	14,3641
3,84	123032	472442,88	14,7456
3,93	123246	484356,78	15,4449
3,93	124804	490479,72	15,4449
3,99	123405	492385,95	15,9201
4,04	124997	504987,88	16,3216
4,06	148669	603596,14	16,4836
4,07	148778	605526,46	16,5649

Lampiran 4. Lanjutan....

BG	F	BG X F	BG²
4,18	133474	557921,3	17,4724
4,29	129985	557635,7	18,4041
4,3	147601	634684,3	18,49
4,31	137066	590754,5	18,5761
4,34	129488	561977,9	18,8356
4,35	129077	561485	18,9225
4,36	134238	585277,7	19,0096
4,41	121911	537627,5	19,4481
4,5	127778	575001	20,25
4,53	126366	572438	20,5209
4,77	147601	704056,8	22,7529
4,79	139885	670049,2	22,9441
4,92	124218	611152,6	24,2064
4,94	124431	614689,1	24,4036
5	125520	627600	25
5,03	147665	742755	25,3009
5,28	137984	728555,5	27,8784
5,33	147106	784075	28,4089
5,35	136542	730499,7	28,6225
5,41	129071	698274,1	29,2681
5,89	128886	759138,5	34,6921
6,03	135887	819398,6	36,3609
6,35	128939	818762,7	40,3225
	Jumlah	15043809	560,0906

Pengamatan Kedua (28 November 2012)

BG	F	BGx F	BG²
3,56	124578	443497,68	12,6736

Pengamatan Ketiga (16 Desember 2012)

BG	F	BG X F	BG2
5,35	135112	722849,2	722849,2
5,8	129432	750705,6	750705,6
6,06	133451	808713,06	808713,06
6,63	135396	897675,48	897675,48
7,13	141528	1009094,64	1009094,64
7,26	140786	1022106,36	1022106,36
7,39	141633	1046667,87	1046667,87
7,65	143265	1095977,25	1095977,25
7,67	139191	1067594,97	1067594,97
7,89	144889	1143174,21	1143174,21
8,05	156777	1262054,85	1262054,85
8,16	161254	1315832,64	1315832,64
	Jumlah	12142446,13	12142446,1

Pengamatan Keempat (29 Desember 2012)

BG	F	BG X F	BG2
2,4	112966	271118,4	271118,4
2,58	112260	289630,8	289630,8
2,65	115358	305698,7	305698,7
3,28	119095	390631,6	390631,6
3,44	125728	432504,32	432504,32
3,53	119865	423123,45	423123,45
3,68	121997	448948,96	448948,96
4,44	122157	542377,08	542377,08
4,69	123010	576916,9	576916,9
4,72	124686	588517,92	588517,92
4,75	124555	591636,25	591636,25
4,81	119795	576213,95	576213,95
5,81	125498	729143,38	729143,38
6,2	127482	790388,4	790388,4
	Jumlah	6956850,11	6956850,11

Lampiran 5. Analisis Data Hubungan Fekunditas dengan Panjang Total Ikan Layang (*Decapterus macrosoma*) Berdasarkan Bulan Gelap dan Bulan Terang

Pengamatan Bulan Gelap

L	F	log L	log F	log L X log F	L2
229	127162	1,3598	5,1044	6,9411	524,41
236	123544	1,3729	5,0918	6,9906	556,96
236	137121	1,3729	5,1371	7,0528	556,96
241	129689	1,3820	5,1129	7,0661	580,81
242	147601	1,3838	5,1691	7,1531	585,64
242	132656	1,3838	5,1227	7,0889	585,64
245	130774	1,3892	5,1165	7,1077	600,25
246	124804	1,3909	5,0962	7,0885	605,16
247	134024	1,3927	5,1272	7,1406	610,09
249	124804	1,3962	5,0962	7,1154	620,01
250	122362	1,3979	5,0876	7,1122	625
250	129985	1,3979	5,1139	7,1489	625
251	119765	1,3997	5,0783	7,1080	630,01
251	133095	1,3997	5,1242	7,1722	630,01
252	134238	1,4014	5,1279	7,1862	635,04
252	136532	1,4014	5,1352	7,1965	635,04
253	124431	1,4031	5,0949	7,1488	640,09
253	135156	1,4031	5,1308	7,1992	640,09
253	133474	1,4031	5,1254	7,1915	640,09
254	123405	1,4048	5,0913	7,1525	645,16
254	122096	1,4048	5,0867	7,1460	645,16
256	132500	1,4082	5,1222	7,2133	655,36
256	124348	1,4082	5,0946	7,1745	655,36
257	122096	1,4099	5,0867	7,1719	660,49
257	135887	1,4099	5,1332	7,2374	660,49
258	123032	1,4116	5,0900	7,1852	665,64
258	134894	1,4116	5,1300	7,2416	665,64
258	136542	1,4116	5,1353	7,2490	665,64
259	129077	1,4133	5,1108	7,2232	670,81
259	157662	1,4133	5,1977	7,3459	670,81
260	148778	1,4150	5,1725	7,3190	676
260	127162	1,4150	5,1044	7,2225	676
260	137066	1,4150	5,1369	7,2686	676
262	124372	1,4183	5,0947	7,2259	686,44
263	129071	1,4200	5,1108	7,2572	691,69
263	129530	1,4200	5,1124	7,2593	691,69
263	147601	1,4200	5,1691	7,3399	691,69

Lampiran 5. Lanjutan.....

L	F	log L	log F	log L X log F	L2
263	129432	1,4200	5,1120	7,2589	691,69
264	123878	1,4216	5,0930	7,2402	696,96
264	147665	1,4216	5,1693	7,3487	696,96
264	129985	1,4216	5,1139	7,2699	696,96
264	126366	1,4216	5,1016	7,2525	696,96
265	122848	1,4232	5,0894	7,2434	702,25
265	123246	1,4232	5,0908	7,2454	702,25
265	129488	1,4232	5,1122	7,2760	702,25
266	139885	1,4249	5,1458	7,3321	707,56
266	140786	1,4249	5,1486	7,3361	707,56
267	148669	1,4265	5,1722	7,3782	712,89
267	147589	1,4265	5,1691	7,3737	712,89
267	161254	1,4265	5,2075	7,4286	712,89
268	128939	1,4281	5,1104	7,2983	718,24
268	137121	1,4281	5,1371	7,3365	718,24
269	139191	1,4298	5,1436	7,3541	723,61
271	147106	1,4330	5,1676	7,4051	734,41
271	124218	1,4330	5,0942	7,2998	734,41
271	124202	1,4330	5,0941	7,2997	734,41
271	125520	1,4330	5,0987	7,3063	734,41
271	124997	1,4330	5,0969	7,3037	734,41
271	135396	1,4330	5,1316	7,3534	734,41
272	130074	1,4346	5,1142	7,3367	739,84
273	136092	1,4362	5,1338	7,3730	745,29
273	133451	1,4362	5,1253	7,3608	745,29
274	135112	1,4378	5,1307	7,3767	750,76
275	143265	1,4393	5,1561	7,4214	756,25
279	141528	1,4456	5,1508	7,4461	778,41
279	156777	1,4456	5,1953	7,5103	778,41
280	128886	1,4472	5,1102	7,3953	784
283	127778	1,4518	5,1065	7,4135	800,89
286	144889	1,4564	5,1610	7,5164	817,96
290	141633	1,4624	5,1512	7,5331	841
244	122571	2,3874	5,0884	12,1480	59536
254	121911	2,4048	5,0860	12,2311	64516
266	137984	2,4249	5,1398	12,4635	70756
	Jumlah	54,4992	184,6490	279,4663	219052,7

Pengamatan Bulan Terang

L	F	log L	log F	log L X log F	L2
253	124578	1,4031	5,0954	7,1495	640,09
283	121997	1,4518	5,0863	7,3843	800,89
252	124555	1,4014	5,0954	7,1406	635,04
254	125498	1,4048	5,0986	7,1627	645,16
242	119095	1,3838	5,0759	7,0241	585,64
249	115358	1,3962	5,0620	7,0676	620,01
254	112260	1,4048	5,0502	7,0947	645,16
260	125728	1,4150	5,0994	7,2156	676
257	127482	1,4099	5,1054	7,1983	660,49
241	122157	1,3820	5,0869	7,0302	580,81
241	123010	1,3820	5,0899	7,0344	580,81
248	124686	1,3945	5,0958	7,1059	615,04
244	112966	1,3874	5,0529	7,0104	595,36
231	119795	1,3636	5,0784	6,9250	533,61
248	119865	1,3945	5,0787	7,0820	615,04
	Jumlah	20,9748	76,2516	106,6254	9429,15

Lampiran 6. Analisis Data Hubungan Fekunditas Dengan Bobot Tubuh ikan Layang (*Decapterus macrosoma*) Berdasarkan Bulan Gelap dan Bulan Terang

Pengamatan Bulan Gelap

W	F	W X F	W2
76,43	144889	11073866,3	5841,5449
79,72	161254	12855168,9	6355,2784
117,42	123544	14506536,5	13787,4564
120,21	127162	15286144	14450,4441
126,39	129689	16391392,7	15974,4321
133,35	122096	16281501,6	17782,2225
136,74	137121	18749925,5	18697,8276
140,68	136532	19207321,8	19790,8624
141,38	130774	18488828,1	19988,3044
141,85	129985	18438372,3	20121,4225
142,46	124804	17779577,8	20294,8516
145,04	132656	19240426,2	21036,6016
145,91	124804	18210151,6	21289,7281
146,84	133095	19543669,8	21561,9856
149,45	147601	22058969,5	22335,3025
150,29	119765	17999481,9	22587,0841
150,78	135156	20378821,7	22734,6084
151,16	129077	19511279,3	22849,3456
151,68	134894	20460721,9	23006,8224
152,52	122362	18662652,2	23262,3504
154,02	137066	21110905,3	23722,1604
155,28	134024	20811246,7	24111,8784
156,1	132500	20683250	24367,21
158,85	127162	20199683,7	25233,3225
159,38	124372	19822409,4	25401,9844
159,72	124348	19860862,6	25510,4784
159,98	122571	19608908,6	25593,6004
161,46	122096	19713620,2	26069,3316
161,81	123032	19907807,9	26182,4761
163,91	135887	22273238,2	26866,4881
166,66	123878	20645507,5	27775,5556
166,79	147665	24629045,4	27818,9041
166,87	123405	20592592,4	27845,5969
167,05	133474	22296831,7	27905,7025
167,8	121911	20456665,8	28156,84
168,93	137121	23163850,5	28537,3449
171,22	126366	21636386,5	29316,2884

Lampiran 6. Lanjutan.....

W	F	W X F	W2
171,55	123246	21142851,3	29429,4025
171,62	134238	23037925,56	29453,4244
171,97	124431	21398399,07	29573,6809
172,76	148669	25684056,44	29846,0176
173,13	137984	23889169,92	29973,9969
173,15	136542	23642247,3	29980,9225
173,81	147601	25654529,81	30209,9161
177,72	129488	23012607,36	31584,3984
178,95	129432	23161856,4	32023,1025
178,96	148778	26625310,88	32026,6816
179,88	157662	28360240,56	32356,8144
180,57	122848	22182663,36	32605,5249
180,62	139885	25266028,7	32623,5844
182,18	129530	23597775,4	33189,5524
183,67	129071	23706470,57	33734,6689
186,33	129985	24220105,05	34718,8689
186,73	124997	23340689,81	34868,0929
187,76	124202	23320167,52	35253,8176
187,77	130074	24423994,98	35257,5729
188,87	147589	27875134,43	35671,8769
189,43	140786	26669091,98	35883,7249
189,45	139191	26369734,95	35891,3025
189,86	124218	23584029,48	36046,8196
191,01	125520	23975575,2	36484,8201
200,12	135112	27038613,44	40048,0144
200,99	133451	26822316,49	40396,9801
201,1	135396	27228135,6	40441,21
201,21	156777	31545100,17	40485,4641
204,37	136092	27813122,04	41767,0969
204,67	128939	26389945,13	41889,8089
210,58	141528	29802966,24	44343,9364
211,98	128886	27321254,28	44935,5204
212,66	147106	31283561,96	45224,2756
217,34	143265	31137215,1	47236,6756
222,15	127778	28385882,7	49350,6225
236,21	141633	33455130,93	55795,1641
	Jumlah	1649901522	2144766,992

Pengamatan Bulan Terang

W	F	W X F	W2
120,43	119795	14426911,85	14503,38
131,9	122157	16112508,3	17397,61
140,17	123010	17242311,7	19647,63
140,58	119095	16742375,1	19762,74
150,65	112966	17018327,9	22695,42
153,98	124686	19199150,28	23709,84
155,2	115358	17903561,6	24087,04
159,23	124578	19836554,94	25354,19
163,1	119865	19549981,5	26601,61
164,52	112260	18469015,2	27066,83
166,34	125498	20875337,32	27669
168,13	127482	21433548,66	28267,7
173,28	124555	21582890,4	30025,96
174,27	125728	21910618,56	30370,03
208,23	121997	25403435,31	43359,73
	Jumlah	287706528,6	380518,7

Lampiran 7. Analisis Data Hubungan Fekunditas dengan Bobot Gonad Ikan Layang (*Decapterus macrosoma*) Pada Bulan Gelap dan Bulan Terang

Bulan Gelap

BG	F	BG X F	BG2
2,07	122096	252738,72	4,2849
2,53	136092	344312,76	6,4009
2,6	129985	337961	6,76
2,67	119765	319772,55	7,1289
2,84	127162	361140,08	8,0656
3	133095	399285	9
3,06	134024	410113,44	9,3636
3,11	130774	406707,14	9,6721
3,23	147589	476712,47	10,4329
3,27	135156	441960,12	10,6929
3,31	132656	439091,36	10,9561
3,34	137121	457984,14	11,1556
3,37	123544	416343,28	11,3569
3,37	137121	462097,77	11,3569
3,39	122362	414807,18	11,4921
3,43	136532	468304,76	11,7649
3,48	134894	469431,12	12,1104
3,51	122096	428556,96	12,3201
3,51	129530	454650,3	12,3201
3,58	132500	474350	12,8164
3,62	124372	450226,64	13,1044
3,64	124202	452095,28	13,2496
3,65	124804	455534,6	13,3225
3,67	157662	578619,54	13,4689
3,68	127162	467956,16	13,5424
3,68	124348	457600,64	13,5424
3,77	130074	490378,98	14,2129
3,77	129689	488927,53	14,2129
3,78	122848	464365,44	14,2884
3,79	122571	464544,09	14,3641
3,79	123878	469497,62	14,3641
3,84	123032	472442,88	14,7456
3,93	123246	484356,78	15,4449
3,93	124804	490479,72	15,4449
3,99	123405	492385,95	15,9201
4,04	124997	504987,88	16,3216
4,06	148669	603596,14	16,4836

Lampiran 7. Lanjutan...

BG	F	BG X F	BG2
4,07	148778	605526,5	16,5649
4,18	133474	557921,3	17,4724
4,29	129985	557635,7	18,4041
4,3	147601	634684,3	18,49
4,31	137066	590754,5	18,5761
4,34	129488	561977,9	18,8356
4,35	129077	561485	18,9225
4,36	134238	585277,7	19,0096
4,41	121911	537627,5	19,4481
4,5	127778	575001	20,25
4,53	126366	572438	20,5209
4,77	147601	704056,8	22,7529
4,79	139885	670049,2	22,9441
4,92	124218	611152,6	24,2064
4,94	124431	614689,1	24,4036
5	125520	627600	25
5,03	147665	742755	25,3009
5,28	137984	728555,5	27,8784
5,33	147106	784075	28,4089
5,35	136542	730499,7	28,6225
5,35	135112	722849,2	28,6225
5,41	129071	698274,1	29,2681
5,8	129432	750705,6	33,64
5,89	128886	759138,5	34,6921
6,03	135887	819398,6	36,3609
6,06	133451	808713,1	36,7236
6,35	128939	818762,7	40,3225
6,63	135396	897675,5	43,9569
7,13	141528	1009095	50,8369
7,26	140786	1022106	52,7076
7,39	141633	1046668	54,6121
7,65	143265	1095977	58,5225
7,67	139191	1067595	58,8289
7,89	144889	1143174	62,2521
8,05	156777	1262055	64,8025
8,16	161254	1315833	66,5856
	Jumlah	27791782	1188,747

Pengamatan Bulan Terang

BG	F	BG X F	BG2
3,56	124578	443497,68	12,6736

3,68	121997	448948,96	13,5424
4,75	124555	591636,25	22,5625
5,81	125498	729143,38	33,7561
3,28	119095	390631,6	10,7584
2,65	115358	305698,7	7,0225
2,58	112260	289630,8	6,6564
3,44	119795	412094,8	11,8336
6,2	127482	790388,4	38,44
4,44	122157	542377,08	19,7136
4,69	123010	576916,9	21,9961
4,72	124686	588517,92	22,2784
2,4	112966	271118,4	5,76
4,81	125728	604751,68	23,1361
3,53	119865	423123,45	12,4609
	Jumlah	7408476	262,5906

Lampiran 8 . Diameter Telur Ikan Layang (*Deacapterus macrosoma*)
 Pada Setiap Pengamatan
 Pengamatan pertama (14 November 2012)

TKG III

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	87	0,150
0,70-0,89	203	0,349
0,90-1,09	107	0,184
1,10-1,19	0	0,000
1,20-1,29	93	0,160
1,30-1,49	0	0,000
1,50-1,69	75	0,129
1,70-1,89	10	0,017
1,90-2,09	6	0,010
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	581	100,000

TKG IV

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	68	7,623
0,70-0,89	88	9,865
0,90-1,09	189	21,188
1,10-1,19	0	0,000
1,20-1,29	313	35,090
1,30-1,49	0	0,000
1,50-1,69	212	23,767
1,70-1,89	11	1,233
1,90-2,09	11	1,233
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	892	100,000

TKG V

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	35	7,527
0,70-0,89	81	17,419
0,90-1,09	77	16,559
1,10-1,19	0	0,000
1,20-1,29	216	46,452
1,30-1,49	0	0,000
1,50-1,69	43	9,247
1,70-1,89	2	0,430
1,90-2,09	6	1,290
2,10-2,29	5	1,075
2,30-2,49	0	0,000
Jumlah	465	100,000

Pengamatan Kedua (28 November 2012)

TKG IV

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	25	4,440
0,70-0,89	62	11,012
0,90-1,09	88	15,631
1,10-1,19	0	0,000
1,20-1,29	210	37,300
1,30-1,49	0	0,000
1,50-1,69	149	26,465
1,70-1,89	13	2,309
1,90-2,09	16	2,842
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	563	100,000

Pengamatan Ketiga (16 November 2012)

TKG III

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	142	24,610
0,70-0,89	156	27,036
0,90-1,09	120	20,797
1,10-1,19	0	0,000
1,20-1,29	90	15,598
1,30-1,49	0	0,000
1,50-1,69	44	7,626
1,70-1,89	25	4,333
1,90-2,09	0	0,000
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	577	100,000

TKG IV

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	130	21,277
0,70-0,89	96	15,712
0,90-1,09	101	16,530
1,10-1,19	0	0,000
1,20-1,29	220	36,007
1,30-1,49	0	0,000
1,50-1,69	40	6,547
1,70-1,89	15	2,455
1,90-2,09	9	1,473
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	611	100,000

TKG V

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	99	21,854
0,70-0,89	86	18,985
0,90-1,09	185	40,839
1,10-1,19	0	0,000
1,20-1,29	42	9,272
1,30-1,49	0	0,000
1,50-1,69	36	7,947
1,70-1,89	1	0,221
1,90-2,09	4	0,883
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	453	100,000

Pengamatan Keempat (29 Desember 2012)

TKG III

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	42	6,818
0,70-0,89	225	36,526
0,90-1,09	155	25,162
1,10-1,19	0	0,000
1,20-1,29	148	24,026
1,30-1,49	0	0,000
1,50-1,69	34	5,519
1,70-1,89	10	1,623
1,90-2,09	2	0,325
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	616	100,000

TKG IV

kisaran diameter telur (mm)	Ferekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	33	9,116
0,70-0,89	58	16,022
0,90-1,09	42	11,602
1,10-1,19	0	0,000
1,20-1,29	125	34,530
1,30-1,49	0	0,000
1,50-1,69	79	21,823
1,70-1,89	20	5,525
1,90-2,09	5	1,381
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	362	100,000

TKG V

kisaran diameter telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	55	10,110
0,70-0,89	105	19,301
0,90-1,09	63	11,581
1,10-1,19	0	0,000
1,20-1,29	215	39,522
1,30-1,49	0	0,000
1,50-1,69	66	12,132
1,70-1,89	22	4,044
1,90-2,09	9	1,654
2,10-2,29	9	1,654
2,30-2,49	0	0,000
Jumlah	544	100,000

Lampiran 9. Diameter Telur ikan Layang (*Decapterus macrosoma*)
Berdasarkan Bulan Gelap dan Bulan Terang

Bulan Gelap

TKG III

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	229	19,775
0,70-0,89	359	31,002
0,90-1,09	227	19,603
1,10-1,19	0	0,000
1,20-1,29	183	15,803
1,30-1,49	0	0,000
1,50-1,69	119	10,276
1,70-1,89	35	3,022
1,90-2,09	6	0,518
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	1158	100,000

TKG IV

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	198	13,174
0,70-0,89	184	12,242
0,90-1,09	290	19,295
1,10-1,19	0	0,000
1,20-1,29	533	35,462
1,30-1,49	0	0,000
1,50-1,69	252	16,766
1,70-1,89	26	1,730
1,90-2,09	20	1,331
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	1503	100,000

TKG V

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0,30-0,49	0	0,000
0,50-0,69	134	15,056
0,70-0,89	167	18,764
0,90-1,09	234	26,292
1,10-1,19	0	0,000
1,20-1,29	258	28,989
1,30-1,49	0	0,000
1,50-1,69	79	8,876
1,70-1,89	3	0,337
1,90-2,09	10	1,124
2,10-2,29	5	0,562
2,30-2,49	0	0,000
Jumlah	890	100,000

Bulan Terang

TKG III

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0,30-0,49	0	0,000
0,50-0,69	42	6,818
0,70-0,89	225	36,526
0,90-1,09	155	25,162
1,10-1,19	0	0,000
1,20-1,29	148	24,026
1,30-1,49	0	0,000
1,50-1,69	34	5,519
1,70-1,89	10	1,623
1,90-2,09	2	0,325
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	616	100,000

TKG IV

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	58	6,270
0,70-0,89	120	12,973
0,90-1,09	130	14,054
1,10-1,19	0	0,000
1,20-1,29	335	36,216
1,30-1,49	0	0,000
1,50-1,69	228	24,649
1,70-1,89	33	3,568
1,90-2,09	21	2,270
2,10-2,29	0	0,000
2,30-2,49	0	0,000
Jumlah	925	100,000

TKG V

Kisaran Diameter Telur (mm)	Frekuensi	Persen
0.30-0.49	0	0,000
0.50-0.69	55	10,110
0,70-0,89	105	19,301
0,90-1,09	63	11,581
1,10-1,19	0	0,000
1,20-1,29	215	39,522
1,30-1,49	0	0,000
1,50-1,69	66	12,132
1,70-1,89	22	4,044
1,90-2,09	9	1,654
2,10-2,29	9	1,654
2,30-2,49	0	0,000
Jumlah	544	100,000