



Report Title: Peace River Site C Hydroelectric Development Pre-Construction Fisheries Studies – Fish Movements and Population Status 1989 Studies

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NOTE TO READER:

INFORMATION CONTAINED IN THIS REPORT MAY BE OUT OF DATE AND BC HYDRO MAKES NO STATEMENT ABOUT ITS ACCURACY OR COMPLETENESS. USE OF THIS REPORT AND/OR ITS CONTENTS IS AT THE USER'S OWN RISK.

During Stage 2 of the Site C Project, studies are underway to update many of the historical studies and information known about the project.

The potential Site C project, as originally conceived, will be updated to reflect current information and to incorporate new ideas brought forward by communities, First Nations, regulatory agencies and stakeholders. Today's approach to Site C will consider environmental concerns, impacts to land, and opportunities for community benefits, and will update design, financial and technical work.

APPENDIX 4.1A
Fish Capture Summaries
- Boat Electrofishing, Peace River

Appendix 4.1A Table 1 Catch-per-unit-effort by reach for fish species captured by electrofishing during each sample session, Peace, River, 1989.

Species	Number and CUE (# fish/hour)											
	Spring				Summer				Fall			
	Reach 1 ^a	Reach 2	Reach 3	Reach 4	Reach 1	Reach 2	Reach 3	Reach 4	Reach 1	Reach 2	Reach 3	Reach 4
Sport fish												
Arctic grayling	0(0.0)	58(17.4)	77(3.7)	2(0.5)	3(0.8)	208(17.2)	43(2.4)	0(0.0)	1(0.4)	47(7.6)	33(2.7)	0(0.0)
Bull trout	2(0.5)	4(1.2)	16(0.8)	3(0.8)	1(0.3)	3(0.2)	13(0.7)	0(0.0)	1(0.4)	5(0.8)	10(0.8)	1(0.5)
Goldeye	16(4.1)	0(0.0)	0(0.0)	0(0.0)	3(0.8)	0(0.0)	0(0.0)	0(0.0)	1(0.4)	0(0.0)	0(0.0)	0(0.0)
Kokanee	1(0.3)	2(0.6)	36(1.7)	5(1.3)	0(0.0)	3(0.2)	12(0.1)	9(2.0)	0(0.0)	0(0.0)	5(0.4)	0(0.0)
Burbot	2(0.5)	0(0.0)	0(0.0)	0(0.0)	3(0.8)	0(0.0)	0(0.0)	0(0.0)	1(0.4)	0(0.0)	0(0.0)	0(0.0)
Lake whitefish	1(0.3)	5(1.5)	201(9.7)	4(1.1)	2(0.5)	29(2.4)	23(1.3)	28(6.2)	2(0.8)	16(2.6)	32(2.6)	6(3.7)
Mountain whitefish	38(9.6)	93(28.0)	1731(112.1)	70(25.5)	164(44.9)	1066(88.2)	2144(120.7)	243(54.1)	39(16.0)	523(85.0)	1713(141.9)	111(68.1)
Northern pike	7(1.8)	1(0.3)	2(0.1)	0(0.0)	4(1.1)	6(0.5)	1(0.1)	0(0.0)	3(1.2)	11(1.8)	10(0.7)	1(0.6)
Rainbow trout	0(0.0)	9(2.7)	107(5.2)	44(11.6)	1(0.3)	44(3.6)	42(2.4)	38(8.5)	0(0.0)	7(1.1)	57(4.7)	16(9.8)
Walleye	143(36.2)	0(0.0)	0(0.0)	0(0.0)	12(3.3)	24(2.0)	0(0.0)	0(0.0)	31(12.7)	4(0.6)	1(0.1)	0(0.0)
Non-sport fish												
Northern squawfish	7(1.8)	0(0.0)	6(0.3)	0(0.0)	2(0.5)	24(2.0)	4(0.2)	0(0.0)	0(0.0)	3(0.5)	10(0.8)	0(0.0)
Longnose sucker	82(20.8)	15(4.5)	30(1.5)	2(0.5)	109(29.8)	238(19.7)	140(7.9)	17(3.8)	1(0.4)	31(5.0)	51(4.2)	2(1.2)
Largescale sucker	12(3.0)	7(2.1)	1(0.1)	0(0.0)	10(2.7)	89(7.4)	50(2.8)	2(0.4)	0(0.0)	12(1.9)	82(6.8)	1(0.6)
White sucker	4(1.0)	0(0.0)	11(0.5)	1(0.3)	20(5.5)	19(1.6)	12(0.7)	1(0.2)	0(0.0)	9(1.5)	11(0.9)	1(0.6)

^aReach 1 information derived during spring from Crew 1 catch data (i.e., CUE value x 2)

Appendix 4.1A Table 2 Number of electrofishing runs in which fish occurred and percent occurrence within reaches during three sample sessions, Peace River, 1989.

Species	Spring				Summer				Fall			
	Reach 1	Reach 2	Reach 3	Reach 4	Reach 1	Reach 2	Reach 3	Reach 4	Reach 1	Reach 2	Reach 3	Reach 4
<i>Sport fish</i>												
Arctic grayling	0(0.0)	5(71.4)	22(59.5)	1(16.7)	3(37.5)	29(72.5)	19(47.5)	0(0.0)	1(33.3)	12(75.0)	13(34.2)	0(0.0)
Dolly Varden	2(14.3)	3(42.8)	13(35.1)	3(50.0)	1(12.5)	3(7.5)	12(30.0)	0(0.0)	1(33.3)	5(31.3)	8(21.1)	1(33.3)
Goldeye	6(42.9)	0(0.0)	0(0.0)	0(0.0)	2(25.0)	0(0.0)	0(0.0)	0(0.0)	1(33.3)	0(0.0)	0(0.0)	0(0.0)
Kokanee	1(7.1)	1(14.3)	16(43.2)	4(66.7)	0(0.0)	2(5.0)	7(17.5)	2(28.6)	0(0.0)	0(0.0)	3(7.9)	0(0.0)
Burbot	2(14.3)	0(0.0)	0(0.0)	0(0.0)	2(25.0)	0(0.0)	0(0.0)	0(0.0)	1(33.3)	0(0.0)	0(0.0)	0(0.0)
Lake whitefish	1(7.1)	3(42.9)	20(54.1)	2(33.3)	1(12.5)	12(30.0)	15(37.5)	6(85.7)	1(33.3)	5(31.3)	16(42.1)	3(100.0)
Mountain whitefish	8(57.1)	6(85.7)	28(96.6)	3(60.0)	7(87.5)	40(100.0)	40(100.0)	6(85.7)	2(66.7)	16(100.0)	37(97.4)	3(100.0)
Northern pike	5(35.7)	1(14.3)	2(5.4)	0(0.0)	3(37.5)	4(10.0)	1(2.5)	0(0.0)	2(66.7)	6(37.5)	5(13.2)	1(33.3)
Rainbow trout	0(0.0)	3(42.9)	25(67.5)	6(100.0)	1(12.5)	15(37.5)	21(52.5)	7(100.0)	0(0.0)	2(12.5)	24(63.2)	3(100.0)
Yellow walleye	5(35.7)	0(0.0)	0(0.0)	0(0.0)	1(12.5)	4(12.5)	0(0.0)	0(0.0)	1(33.3)	1(6.3)	1(2.6)	0(0.0)
<i>Non-sport fish</i>												
Longnose sucker	9(64.3)	4(57.7)	5(13.5)	2(33.3)	8(100.0)	28(70.0)	24(60.0)	5(12.5)	1(33.3)	10(62.5)	23(60.5)	1(33.3)
Largescale sucker	4(28.6)	4(57.7)	1(2.7)	0(0.0)	5(62.5)	22(55.0)	10(25.0)	2(28.5)	0(0.0)	8(50.0)	26(68.4)	1(33.3)
Northern squawfish	4(28.6)	0(0.0)	5(13.5)	0(0.0)	1(12.5)	8(20.0)	1(2.5)	0(0.0)	0(0.0)	2(12.5)	5(13.2)	0(0.0)
White sucker	3(21.4)	0(0.0)	3(8.1)	1(16.7)	6(75.0)	11(27.5)	8(20.0)	1(14.3)	0(0.0)	6(37.5)	9(23.7)	1(33.3)

APPENDIX 4.1A. Raw data of electrofishing runs conducted by Crew 2 on the mainstem Peace River during 1989.

CREW NO.	MONTH	DAY	RUN NO.	SPEC	SPEC NO.	SEC NO.	KM	SPCUE NO. FISH/HR
2	6	3	2	K		1 1088	149	3.31
2	6	3	2	WS		1 1088	149	3.31
2	6	3	3	K		1 1467	148	2.45
2	6	3	2	RT		11 1088	149	36.40
2	6	3	1	RT		3 1628	143	6.63
2	6	3	3	RT		1 1467	148	2.45
2	6	3	2	DV		1 1088	149	3.31
2	6	3	3	MW		30 1467	148	73.62
2	6	3	1	MW		140 1628	143	309.55
2	6	3	3	LNS		1 1467	148	2.45
2	6	3	2	MW		30 1088	149	99.26
2	6	4	1	RT		1 2458	137	1.46
2	6	4	1	AG		1 2458	137	1.46
2	6	4	2	LW		52 2502	143	74.82
2	6	4	1	DV		2 2458	137	2.93
2	6	4	2	AG		1 2502	143	1.44
2	6	4	2	DV		1 2502	143	1.44
2	6	4	2	MW		163 2502	143	234.53
2	6	4	2	RT		6 2502	143	5.63
2	6	4	1	MW		206 2458	137	304.64
2	6	4	1	WS		7 2458	137	10.25
2	6	4	2	LNS		4 2502	143	5.76
2	6	4	2	K		6 2502	143	5.63
2	6	4	1	LW		8 2458	137	11.72
2	6	4	1	LNS		22 2458	137	32.22
2	6	6	1	LNS		2 4301	137	1.67
2	6	6	1	K		4 4301	137	3.35
2	6	6	1	RT		1 4301	137	0.54
2	6	6	1	MW		20 4301	137	16.74
2	6	6	1	LW		65 4301	137	54.41
2	6	7	2	K		1 2254	143	1.60
2	6	7	1	DV		1 4373	149	0.92
2	6	7	2	RT		3 2254	143	4.79
2	6	7	1	LNS		1 4373	149	0.92
2	6	7	1	MW		10 4373	149	5.23
2	6	7	1	K		2 4373	149	1.65
2	6	7	1	RT		18 4373	149	14.52
2	6	8	1	LW		1 2248	144	1.60
2	6	8	2	RT		2 1192	142	6.04
2	6	8	1	DV		1 2248	144	1.60
2	6	8	1	RT		8 2248	144	12.91
2	6	8	1	AG		2 2248	144	3.20
2	6	12	3	RT		7 2580	123	9.77
2	6	12	2	AG		3 1997	137	5.41
2	6	12	3	LW		2 2580	123	2.79
2	6	12	3	MW		1 2580	123	1.40
2	6	12	3	DV		1 2580	123	1.40
2	6	12	3	AG		2 2580	123	2.79
2	6	12	1	LW		3 724	144	14.92
2	6	12	1	RT		3 724	144	14.92
2	6	12	3	K		1 2580	123	1.40
2	6	13	2	K		1 2795	116	1.29
2	6	13	2	NSF		2 2755	116	2.59

2	6	13	3	K	2	2907	130	2.48
2	6	13	1	K	4	1581	118	9.11
2	6	13	1	RT	4	1581	118	9.11
2	6	13	3	NP	1	2907	130	1.24
2	6	13	2	RT	2	2785	116	2.59
2	6	13	3	AG	5	2907	130	6.19
2	6	13	3	RT	5	2907	130	6.19
2	6	14	1	RT	3	3775	147	2.86
2	6	14	1	K	1	3775	147	0.95
2	6	15	2	RT	1	2936	132	1.23
2	6	15	1	K	1	3168	137	1.14
2	6	15	1	RT	5	3168	137	5.68
2	6	15	2	NSF	1	2936	132	1.23
2	6	15	1	DV	1	3168	137	1.14
2	6	15	1	NSF	1	3168	137	1.14
2	6	15	2	LW	1	2936	132	1.23
2	6	15	1	AG	1	3168	137	1.14
2	6	17	2	K	1	3923	132	0.92
2	6	17	2	RT	3	3923	132	2.75
2	6	17	2	MW	155	3923	132	142.24
2	6	17	1	MW	95	1520	138	201.32
2	6	17	3	MW	58	1967	140	106.15
2	6	17	2	LW	10	3923	132	9.18
2	6	18	1	LW	3	2694	136	4.01
2	6	18	1	NP	1	2694	136	1.34
2	6	18	1	MW	117	2694	136	156.35
2	6	19	3	K	3	1630	132	6.63
2	6	19	2	AG	2	2897	137	2.49
2	6	19	1	DV	1	592	143	6.08
2	6	19	3	MW	2	1630	132	4.42
2	6	19	1	RT	4	592	143	24.32
2	6	19	2	NSF	1	2897	137	1.24
2	6	19	1	MW	1	592	143	6.08
2	6	19	3	AG	9	1630	132	17.67
2	6	19	3	RT	7	1630	132	15.46
2	6	19	2	K	4	2897	137	4.97
2	6	19	2	LW	33	2897	137	41.01
2	6	19	3	LW	5	1630	132	11.04
2	6	19	2	RT	6	2897	137	7.46
2	6	19	2	MW	9	2897	137	11.18
2	6	20	1	AG	3	2668	128	4.05
2	6	20	2	DV	1	1095	119	3.29
2	6	20	2	AG	7	1095	119	23.01
2	6	20	2	MW	3	1095	119	9.86
2	6	20	2	RT	12	1095	119	39.45
2	6	20	2	K	2	1095	119	6.58
2	6	20	1	DV	2	2668	128	2.70
2	6	20	2	LW	2	1095	119	6.55
2	6	20	1	RT	9	2668	128	10.79
2	6	20	1	LW	2	2668	128	2.70
2	6	20	1	NSF	1	2668	128	1.35
2	6	22	4	MW	23	1029	110	80.47
2	6	22	3	DV	1	689	120	5.22
2	6	22	1	MW	40	1115	123	129.15
2	6	22	4	LW	1	1029	110	3.50
2	6	22	2	MW	103	928	122	399.57
2	6	22	4	AG	2	1029	110	7.00
2	6	22	1	LW	2	1115	123	6.46

2	6	22	2	K	1	928	122	3.88
2	6	22	3	MW	32	689	120	167.20
2	6	22	2	LNS	1	928	122	3.88
2	6	22	4	LNS	1	1029	110	3.50
2	6	22	1	AG	3	1115	123	9.69
2	6	22	2	AG	3	928	122	11.64
2	6	23	3	LW	3	1471	107	7.34
2	6	23	2	AG	1	1708	111	2.11
2	6	23	2	LW	2	1708	111	4.22
2	6	23	1	AG	3	1369	112	7.89
2	6	23	1	MW	51	1369	112	134.11
2	6	23	3	DV	1	1471	107	2.45
2	6	23	3	AG	14	1471	107	34.26
2	6	23	1	RT	2	1369	112	5.26
2	6	23	3	MW	98	1471	107	215.36
2	6	23	1	K	1	1369	112	2.63
2	6	23	2	LSS	1	1708	111	2.11
2	6	23	2	WS	1	1708	111	2.11
2	6	23	3	RT	2	1471	107	4.89
2	6	23	2	MW	59	1708	111	124.36
2	6	23	2	DV	1	1708	111	2.11
2	6	23	1	WS	3	1369	112	7.89
2	6	24	3	AG	5	1087	113	16.56
2	6	24	3	LW	2	1087	113	6.62
2	6	24	2	MW	76	1320	114	207.27
2	6	24	4	LW	2	1570	106	4.59
2	6	24	1	LW	1	1816	116	1.98
2	6	24	1	MW	115	1816	116	227.97
2	6	24	4	K	1	1570	106	2.29
2	6	24	3	DV	1	1087	113	3.31
2	6	24	3	RT	2	1087	113	6.62
2	6	24	2	DV	2	1320	114	5.45
2	6	24	1	AG	1	1816	116	1.98
2	6	24	4	MW	25	1570	106	57.32
2	6	24	1	K	3	1816	116	5.95
2	6	24	3	MW	43	1087	113	142.41
2	6	25	3	AG	2	1541	120	3.91
2	6	25	4	AG	6	2671	108	8.09
2	6	25	4	RT	5	2671	108	6.74
2	6	25	2	AG	3	2746	123	3.93
2	6	25	4	DV	1	2671	108	1.35
2	6	25	3	MW	4	1841	120	7.82
2	6	25	1	AG	1	1625	130	2.22
2	6	25	2	MW	15	2746	123	19.66
2	6	25	3	RT	5	1841	120	9.78
2	6	25	1	LW	3	1625	130	6.65
2	6	25	2	RT	9	2746	123	11.80
2	6	25	2	LW	2	2746	123	2.62
2	6	25	4	MW	6	2671	108	8.09
2	6	25	1	MW	89	1625	130	197.17
2	6	25	1	RT	2	1625	130	4.43
2	6	26	3	K	2	1400	92	5.14
2	6	26	1	AG	14	1808	99	27.88
2	6	26	3	RT	3	1400	92	7.71
2	6	26	3	AG	24	1400	92	61.71
2	6	26	2	MW	18	2628	93	24.66
2	6	26	2	LW	3	2628	93	4.11
2	6	26	2	DV	1	2628	93	1.37

2	6	26	2	AG	15	2628	93	20.55
2	6	26	1	RT	2	1808	99	3.98
2	6	26	1	DV	2	1808	99	3.98
2	6	26	1	MW	38	1808	99	75.66
2	6	26	2	RT	4	2628	93	5.48
2	8	9	2	AG	1	648	139	5.56
2	8	9	1	K	3	1904	140	5.67
2	8	9	2	DV	1	648	139	5.56
2	8	9	1	MW	45	1904	140	85.08
2	8	9	1	RT	1	1904	140	1.99
2	8	9	2	LNS	1	648	139	5.56
2	8	9	1	LW	1	1904	140	1.99
2	8	9	2	MW	49	648	139	272.22
2	8	10	4	WS	2	1192	137	6.04
2	8	10	4	LW	2	1192	137	6.04
2	8	10	3	LW	1	919	138	3.92
2	8	10	1	MW	39	2038	140	68.89
2	8	10	4	NSF	4	1192	137	12.08
2	8	10	5	MW	33	1709	135	69.51
2	8	10	4	LNS	37	1192	137	111.74
2	8	10	3	MW	38	919	138	148.96
2	8	10	5	RT	1	1709	135	2.11
2	8	10	4	AG	1	1192	137	3.02
2	8	10	3	RT	2	919	138	7.83
2	8	10	5	K	2	1709	135	4.21
2	8	10	1	LW	3	2038	140	5.30
2	8	10	4	LSS	11	1192	137	33.22
2	8	10	4	MW	12	1192	137	36.24
2	8	10	2	MW	35	764	139	164.92
2	8	10	1	RT	1	2038	140	1.77
2	8	12	3	LNS	4	1235	134	11.66
2	8	12	5	AG	1	1348	128	2.67
2	8	12	2	LNS	9	1048	137	30.92
2	8	12	1	MW	49	847	139	208.26
2	8	12	4	MW	35	893	132	141.10
2	8	12	2	LSS	13	1048	137	44.66
2	8	12	5	LNS	1	1348	128	2.67
2	8	12	4	LNS	23	893	132	92.72
2	8	12	3	DV	1	1235	134	2.91
2	8	12	5	MW	81	1348	128	216.32
2	8	12	5	WS	1	1348	128	2.67
2	8	12	4	LSS	6	893	132	24.19
2	8	12	2	MW	24	1048	137	82.44
2	8	12	3	MW	40	1235	134	116.60
2	8	12	5	LW	1	1348	128	2.67
2	8	12	4	DV	1	893	132	4.03
2	8	13	2	LW	1	2436	147	1.48
2	8	13	1	LNS	1	2476	148	1.45
2	8	13	3	LNS	3	4224	143	2.56
2	8	13	2	MW	36	2436	147	53.20
2	8	13	1	K	3	2476	148	4.36
2	8	13	3	MW	159	4224	143	135.51
2	8	13	1	RT	1	2476	148	1.45
2	8	13	3	K	1	4224	143	0.85
2	8	13	1	MW	18	2476	148	26.17
2	8	13	2	LNS	2	2436	147	2.96
2	8	13	3	LW	2	4224	143	1.70
2	8	13	3	AG	1	4224	143	0.85

2	8	13	2	RT	5	2436	147	7.39
2	8	13	3	RT	8	4224	143	6.82
2	8	14	1	LNS	1	1842	149	1.95
2	8	14	1	LT	1	1842	149	1.95
2	8	14	2	LW	5	4332	147	4.16
2	8	14	1	LW	3	1842	149	5.86
2	8	14	1	MW	9	1842	149	17.59
2	8	14	2	MW	48	4332	147	39.99
2	8	14	2	RT	7	4332	147	5.82
2	8	14	1	RT	6	1842	149	11.73
2	8	15	2	DV	1	1863	127	1.93
2	8	15	2	LW	1	1863	127	1.93
2	8	15	3	WS	1	2471	123	1.46
2	8	15	6	MW	68	1125	116	217.60
2	8	15	6	WS	1	1125	116	3.20
2	8	15	2	LNS	2	1863	127	3.96
2	8	15	5	LNS	8	1686	118	17.08
2	8	15	1	LNS	6	1358	131	15.91
2	8	15	1	LW	1	1358	131	2.65
2	8	15	4	AG	1	927	121	3.88
2	8	15	3	RT	2	2471	123	2.91
2	8	15	2	LSS	3	1863	127	5.90
2	8	15	4	RT	3	927	121	11.65
2	8	15	1	LSS	4	1358	131	10.60
2	8	15	1	NP	1	1358	131	2.65
2	8	15	1	WS	1	1358	131	2.65
2	8	15	1	MW	36	1358	131	95.43
2	8	15	6	LNS	1	1125	116	3.20
2	8	15	2	MW	70	1863	127	135.27
2	8	15	3	LSS	1	2471	123	1.46
2	8	15	3	MW	54	2471	123	78.67
2	8	15	6	AG	1	1125	116	3.20
2	8	15	4	MW	61	927	121	236.89
2	8	15	3	DV	1	2471	123	1.46
2	8	15	3	AG	5	2471	123	7.28
2	8	15	5	AG	2	1686	118	4.27
2	8	15	5	MW	69	1686	118	147.33
2	8	16	4	LW	3	1342	125	8.05
2	8	16	5	LSS	1	2702	120	1.33
2	8	16	4	MW	29	1342	125	77.79
2	8	16	1	MW	49	1121	133	157.36
2	8	16	3	RT	1	2473	128	1.46
2	8	16	4	DV	1	1342	125	2.68
2	8	16	4	LNS	7	1342	125	18.78
2	8	16	4	LSS	4	1342	125	10.73
2	8	16	3	LNS	1	2473	128	1.46
2	8	16	2	MW	89	1559	130	205.52
2	8	16	4	WS	1	1342	125	2.68
2	8	16	3	MW	74	2473	128	107.72
2	8	16	5	RT	1	2702	120	1.33
2	8	16	5	LNS	7	2702	120	9.33
2	8	16	1	RT	3	1121	133	9.63
2	8	16	5	MW	99	2702	120	131.90
2	8	16	2	LNS	1	1559	130	2.31
2	8	16	1	LW	2	1121	133	6.42
2	8	16	2	RT	1	1559	130	2.31
2	8	16	3	DV	1	2473	128	1.46
2	8	17	3	MW	35	1599	126	78.85

2	9	17	6 DV	1	2051	115	1.76
2	8	17	3 RT	1	1598	126	2.25
2	9	17	6 AG	1	2051	115	1.76
2	8	17	5 MW	55	2352	118	94.18
2	8	17	2 RT	3	1295	128	9.34
2	9	17	5 LNS	7	2352	118	10.71
2	8	17	1 LNS	3	1629	130	6.63
2	8	17	2 MW	56	1295	129	155.68
2	8	17	4 LW	2	2354	122	3.06
2	8	17	1 MW	65	1629	130	143.65
2	8	17	2 LW	1	1295	129	2.78
2	8	17	3 LSS	6	1598	126	13.52
2	9	17	5 RT	1	2352	119	1.53
2	8	17	4 AG	1	2354	122	1.53
2	8	17	3 LNS	2	1598	126	4.51
2	8	17	4 RT	2	2354	122	3.06
2	8	17	1 RT	1	1629	130	2.21
2	8	17	4 MW	43	2354	122	65.76
2	8	17	6 MW	34	2051	115	59.68
2	8	17	2 DV	1	1295	128	2.78
2	8	17	2 AG	2	1295	128	5.56
2	8	18	2 RT	4	3641	107	3.95
2	8	18	1 MW	29	2190	110	46.03
2	8	18	2 AG	9	3641	107	9.90
2	8	18	1 LNS	3	2190	110	4.93
2	8	18	2 K	2	3641	107	1.98
2	8	18	2 MW	114	3641	107	112.72
2	8	19	6 AG	1	1717	103	2.10
2	8	19	1 LSS	1	1436	113	2.51
2	9	19	1 LNS	3	1436	113	7.52
2	9	19	3 AG	6	1498	109	14.42
2	8	19	1 LW	1	1436	113	2.51
2	8	19	5 MW	29	671	105	155.59
2	8	19	2 LNS	1	1655	111	2.19
2	9	19	5 LW	1	671	105	5.37
2	9	19	3 DV	2	1498	109	4.91
2	9	19	2 WS	1	1655	111	2.19
2	9	19	3 K	2	1498	109	4.91
2	9	19	4 AG	5	1292	106	13.93
2	8	19	2 MW	54	1655	111	117.46
2	9	19	2 AG	1	1655	111	2.19
2	9	19	1 MW	45	1436	113	112.91
2	9	19	4 LNS	5	1292	106	13.93
2	8	19	6 LW	1	1717	103	2.10
2	8	19	4 MW	63	1292	106	175.54
2	9	19	1 RT	1	1436	113	2.51
2	9	19	3 MW	37	1498	109	98.92
2	9	19	3 RT	1	1498	109	2.40
2	9	19	1 AG	1	1436	113	2.51
2	9	19	6 RT	4	1717	103	5.39
2	9	19	1 WS	4	1436	113	10.03
2	9	19	6 MW	37	1717	103	77.58
2	9	19	5 AG	1	671	105	5.37
2	9	19	5 LNS	1	671	105	5.37
2	9	20	2 LNS	2	1073	99	6.71
2	9	20	3 MW	32	1124	97	102.49
2	9	20	2 DV	1	1073	99	3.36
2	9	20	1 AG	1	2195	103	1.64

2	8	20	1	LW	1	2195	103	1.64
2	8	20	1	LNS	3	2195	103	4.92
2	8	20	2	MW	35	1073	99	117.43
2	8	20	3	AG	13	1124	97	41.64
2	8	20	2	AG	21	1073	99	70.46
2	8	20	3	LNS	1	1124	97	3.20
2	8	20	2	RT	3	1073	99	10.07
2	8	20	3	RT	4	1124	97	12.81
2	8	20	1	MW	39	2195	103	63.96
2	8	20	1	WS	1	2195	103	1.64
2	8	21	1	LW	4	1255	146	11.47
2	8	21	1	RT	10	1255	146	29.69
2	8	21	2	LW	14	3164	144	15.93
2	8	21	2	RT	7	3164	144	7.96
2	8	21	1	MW	26	1255	146	74.58
2	8	21	1	LSS	1	1255	146	2.97
2	8	21	2	MW	106	3164	144	120.61
2	8	21	2	LNS	10	3164	144	11.38
2	8	21	2	LSS	1	3164	144	1.14
2	8	21	1	LNS	3	1255	146	9.61
2	8	21	2	K	6	3164	144	6.83
2	8	21	2	WS	1	3164	144	1.14
2	8	22	1	RT	2	669	144	10.76
2	8	22	1	LW	1	669	144	5.38
2	8	23	3	AG	17	736	98	83.15
2	8	23	1	MW	18	836	107	77.51
2	8	23	1	DV	1	836	107	4.31
2	8	23	3	LSS	1	736	98	4.89
2	8	23	3	LNS	1	736	98	4.89
2	8	23	2	LSS	2	2385	102	3.02
2	8	23	1	K	1	836	107	4.31
2	8	23	2	AG	1	2385	102	1.51
2	8	23	1	RT	3	836	107	12.92
2	8	23	2	LW	3	2385	102	4.53
2	8	23	3	MW	45	736	98	220.11
2	8	23	1	LW	1	836	107	4.31
2	8	23	2	LNS	3	2385	102	4.53
2	8	23	2	MW	18	2385	102	27.17
2	8	23	1	LNS	4	836	107	17.22
2	8	23	2	RT	4	2385	102	6.04
2	8	24	4	AG	14	1257	92	40.10
2	8	24	4	LW	1	1257	92	2.86
2	8	24	1	AG	5	2097	97	8.58
2	8	24	5	AG	10	705	91	51.06
2	8	24	1	MW	31	2097	97	53.22
2	8	24	2	MW	49	641	96	275.20
2	8	24	3	AG	10	1586	94	22.70
2	8	24	3	LW	2	1586	94	4.54
2	8	24	6	LW	3	1882	89	5.74
2	8	24	5	K	2	705	91	10.21
2	8	24	2	AG	1	641	96	5.62
2	8	24	6	RT	1	1982	89	1.91
2	8	24	3	MW	21	1586	94	47.67
2	8	24	1	LW	3	2097	97	5.15
2	8	24	3	RT	6	1586	94	13.62
2	8	24	6	AG	9	1882	89	15.30
2	8	24	4	MW	29	1257	92	83.05
2	8	24	5	RT	5	705	91	25.53

2	8	24	6 NP	1	1882	89	1.91
2	8	24	4 RT	6	1257	92	17.18
2	8	24	5 MW	19	705	91	97.02
2	8	24	6 MW	33	1882	89	63.12
2	8	24	5 LW	2	705	91	10.21
2	8	24	1 RT	2	2097	97	3.43
2	8	25	3 LW	8	826	102	34.97
2	8	25	1 DV	1	1221	108	2.95
2	8	25	2 K	1	810	107	4.44
2	8	25	3 MW	27	826	102	117.68
2	8	25	5 AG	10	1374	96	26.20
2	8	25	5 RT	2	1374	96	5.24
2	8	25	2 MW	31	810	107	137.78
2	8	25	4 AG	14	915	99	55.08
2	8	25	5 DV	1	1374	96	2.62
2	8	25	4 MW	68	915	99	267.54
2	8	25	5 MW	44	1374	96	115.28
2	8	25	4 RT	3	915	99	11.90
2	8	25	1 AG	2	1221	108	5.90
2	8	25	3 RT	1	826	102	4.36
2	8	25	5 LW	1	1374	96	2.62
2	8	25	1 RT	1	1221	108	2.95
2	8	25	4 NSF	1	915	99	3.93
2	8	25	1 MW	100	1221	108	294.84
2	8	25	2 AG	1	810	107	4.44
2	8	25	5 K	1	1374	96	2.62
2	8	26	1 MW	1	1161	49	3.10
2	8	26	2 AG	1	1058	46	3.40
2	8	26	2 WS	1	1058	46	3.40
2	8	26	3 MW	25	1243	45	72.41
2	8	26	3 DV	1	1243	45	2.90
2	8	26	4 NP	1	1015	43	3.55
2	8	26	2 LNS	9	1058	46	30.62
2	8	26	2 MW	25	1058	46	95.07
2	8	26	1 LNS	5	1161	49	15.50
2	8	26	2 LSS	3	1058	46	10.21
2	8	26	3 WS	1	1243	45	2.90
2	8	26	4 LNS	9	1015	43	31.92
2	8	26	1 LSS	3	1161	49	9.30
2	8	26	2 RT	1	1058	46	3.40
2	8	26	4 MW	34	1015	43	120.59
2	8	26	3 LNS	25	1243	45	72.41
2	8	27	4 NSF	2	2550	26	2.82
2	8	27	1 WS	2	1537	36	4.68
2	8	27	4 YW	12	2550	26	16.94
2	8	27	1 AG	1	1537	36	2.34
2	8	27	4 LING	2	2550	26	2.92
2	8	27	2 NP	2	2435	30	2.96
2	8	27	4 LNS	17	2550	26	24.00
2	8	27	4 NP	1	2550	26	1.41
2	8	27	5 MW	17	1308	23	46.79
2	8	27	1 MW	27	1537	36	63.24
2	8	27	5 LSS	2	1308	23	5.50
2	8	27	3 LNS	13	2002	28	23.38
2	8	27	2 AG	1	2435	30	1.48
2	8	27	2 MW	19	2435	30	28.09
2	8	27	1 LSS	1	1537	36	2.34
2	8	27	1 GE	2	1537	36	4.68

2	8	27	5	LNS	16	1308	23	44.04
2	8	27	4	GE	1	2550	26	1.41
2	8	27	4	WS	11	2550	26	15.53
2	8	27	2	LNS	14	2435	30	20.70
2	8	27	4	LSS	2	2550	26	2.82
2	8	27	3	MW	17	2002	28	30.57
2	8	27	2	WS	1	2435	30	1.48
2	8	27	1	LNS	6	1537	36	14.05
2	8	27	3	WS	4	2002	28	7.19
2	8	27	5	LING	1	1308	23	2.75
2	8	27	2	LSS	2	2435	30	2.96
2	8	27	2	LW	2	2435	30	2.96
2	8	28	4	MW	7	955	71	26.39
2	8	28	9	MW	6	917	62	23.56
2	8	28	7	LSS	4	657	66	21.92
2	8	28	1	RT	1	1138	74	3.16
2	8	28	8	AG	4	1259	64	11.44
2	8	28	9	RT	1	917	62	3.93
2	8	28	1	WS	2	1138	74	6.33
2	8	28	3	MW	40	486	72	296.30
2	8	28	1	MW	37	1138	74	117.05
2	8	28	6	WS	2	777	67	9.27
2	8	28	7	LNS	2	657	66	10.96
2	8	28	7	NSF	1	657	66	5.48
2	8	28	2	MW	11	1375	73	28.80
2	8	28	7	YW	7	657	66	38.36
2	8	28	5	LNS	1	411	70	8.76
2	8	28	2	LNS	6	1375	73	15.71
2	8	28	6	LSS	2	777	67	9.27
2	8	28	4	LNS	16	955	71	60.31
2	8	28	7	MW	5	657	66	27.40
2	8	28	1	AG	8	1138	74	25.31
2	8	28	8	MW	20	1259	64	57.19
2	8	28	6	AG	4	777	67	15.53
2	8	28	8	LNS	13	1259	64	37.17
2	8	28	6	LNS	18	777	67	93.40
2	8	28	4	LSS	1	955	71	3.77
2	8	28	9	LNS	7	917	62	27.48
2	8	28	4	AG	2	955	71	7.54
2	8	28	8	NSF	1	1259	64	2.86
2	8	28	6	MW	8	777	67	37.07
2	8	28	7	WS	3	657	66	16.44
2	8	28	2	AG	10	1375	73	26.19
2	8	28	8	LSS	4	1259	64	11.44
2	8	28	5	MW	39	411	70	341.61
2	8	28	2	RT	1	1375	73	2.62
2	8	28	5	AG	5	411	70	43.80
2	8	29	8	LNS	14	781	67	64.53
2	8	29	8	LW	1	781	67	4.61
2	8	29	2	LNS	16	960	64	60.00
2	8	29	8	AG	11	781	67	50.70
2	8	29	5	DV	1	1271	59	2.83
2	8	29	1	YW	5	580	66	31.03
2	8	29	3	MW	45	522	63	310.34
2	8	29	2	YW	6	960	64	22.50
2	8	29	5	LNS	12	1271	59	33.99
2	8	29	8	MW	21	781	67	96.80
2	8	29	5	LSS	4	1271	59	11.33

2	8	29	8	WS	1	781	67	4.61
2	8	29	6	AG	10	1093	56	32.94
2	8	29	1	WS	3	580	66	18.62
2	8	29	2	LSS	8	960	64	30.00
2	8	29	4	MW	37	999	61	133.33
2	8	29	1	LSS	15	580	66	93.10
2	8	29	2	WS	1	960	64	3.75
2	8	29	8	LSS	3	781	67	13.83
2	8	29	5	MW	48	1271	59	135.96
2	8	29	3	AG	3	522	63	20.69
2	8	29	4	WS	1	999	61	3.60
2	8	29	1	MW	2	580	66	12.41
2	8	29	4	LNS	13	999	61	46.85
2	8	29	6	LSS	1	1093	56	3.29
2	8	29	6	MW	15	1093	56	49.41
2	8	29	7	AG	2	1088	53	6.62
2	8	29	1	NSF	7	580	66	43.45
2	8	29	3	LSS	3	522	63	20.69
2	8	29	2	NSF	2	960	64	7.50
2	8	29	4	AG	3	999	61	10.31
2	8	29	3	LNS	4	522	63	27.59
2	8	29	6	LNS	15	1093	56	49.41
2	8	29	3	NSF	1	522	63	6.90
2	8	29	2	MW	21	960	64	78.75
2	8	29	7	MW	18	1088	53	59.56
2	8	29	5	AG	9	1271	59	25.49
2	8	29	1	LNS	1	580	66	6.21
2	8	29	7	LSS	1	1088	53	3.31
2	8	29	7	LNS	7	1088	53	23.16
2	8	29	4	LSS	2	999	61	7.21
2	8	29	2	NP	2	960	64	7.50
2	8	30	3	NP	1	1560	61	2.31
2	8	30	3	AG	4	1560	61	9.23
2	8	30	2	LNS	6	846	64	25.53
2	8	30	1	LSS	6	997	66	21.66
2	8	30	4	NP	2	1141	59	6.31
2	8	30	2	LSS	8	846	64	34.04
2	8	30	2	NSF	1	846	64	4.26
2	8	30	3	LSS	8	1560	61	18.46
2	8	30	1	NSF	10	997	66	36.11
2	8	30	7	AG	3	766	55	14.10
2	8	30	3	LNS	8	1560	61	18.46
2	8	30	4	LSS	4	1141	59	12.62
2	8	30	6	MW	3	566	57	19.08
2	8	30	2	MW	38	846	64	161.70
2	8	30	3	WS	2	1560	61	4.62
2	8	30	5	LSS	2	715	58	10.07
2	8	30	2	WS	1	846	64	4.26
2	8	30	5	LNS	28	715	58	140.96
2	8	30	4	YW	1	1141	59	3.16
2	8	30	6	LNS	20	566	57	127.21
2	8	30	1	YW	5	997	66	18.05
2	8	30	6	LSS	4	566	57	25.44
2	8	30	2	AG	4	846	64	17.02
2	8	30	7	LSS	3	766	55	14.10
2	8	30	4	MW	20	1141	59	63.10
2	8	30	3	MW	31	1560	61	71.84
2	8	30	7	MW	36	766	55	169.19

2	9	30	1	MW	3	997	66	10.83
2	9	30	4	LNS	9	1141	59	25.24
2	9	30	3	LW	3	1560	61	6.92
2	9	30	1	LNS	1	997	66	3.61
2	9	30	5	MW	27	715	58	135.94
2	9	30	6	WS	2	566	57	12.72
2	9	30	7	LNS	7	766	55	32.90
2	10	7	5	AG	1	722	133	4.99
2	10	7	4	LNS	1	1379	135	2.61
2	10	7	5	LNS	1	722	133	4.99
2	10	7	5	LW	1	722	133	4.99
2	10	7	2	RT	1	1749	142	2.06
2	10	7	3	LW	10	1220	137	29.51
2	10	7	1	RT	1	446	143	9.07
2	10	7	2	LSS	2	1749	142	4.12
2	10	7	5	MW	41	722	133	204.43
2	10	7	3	LSS	6	1220	137	17.70
2	10	7	4	MW	16	1379	135	41.77
2	10	7	1	LNS	1	446	143	9.07
2	10	7	3	MW	14	1220	137	41.31
2	10	7	3	LNS	3	1220	137	9.85
2	10	7	2	MW	56	1749	142	115.27
2	10	7	3	RT	1	1220	137	2.95
2	10	7	5	NSF	1	722	133	4.99
2	10	7	5	RT	10	722	133	49.86
2	10	7	5	K	3	722	133	14.96
2	10	7	2	LNS	6	1749	142	12.35
2	10	7	1	DV	1	446	143	9.07
2	10	7	1	LSS	1	446	143	9.07
2	10	7	3	NSF	3	1220	137	9.95
2	10	7	4	LSS	3	1379	135	7.83
2	10	7	2	RSS	2	1749	142	4.12
2	10	9	3	MW	39	1908	133	77.65
2	10	9	5	RT	1	844	131	4.27
2	10	9	6	LNS	4	1706	129	9.44
2	10	9	1	LSS	1	1710	139	2.11
2	10	9	5	MW	40	844	131	170.62
2	10	9	2	LSS	2	1266	137	5.69
2	10	9	7	WS	1	1021	126	3.53
2	10	9	4	RT	3	316	132	34.18
2	10	9	1	RT	1	1710	139	2.11
2	10	9	4	LSS	1	316	132	11.39
2	10	9	2	LW	1	1266	137	2.84
2	10	9	5	LSS	2	844	131	9.53
2	10	9	2	RT	2	1266	137	5.69
2	10	9	1	MW	48	1710	139	101.05
2	10	9	3	RT	6	1908	133	11.95
2	10	9	2	MW	13	1266	137	36.97
2	10	9	3	WS	1	1908	133	1.99
2	10	9	7	MW	45	1021	126	159.67
2	10	9	6	MW	47	1706	129	99.19
2	10	9	2	LNS	1	1266	137	2.94
2	10	9	4	LW	1	316	132	11.39
2	10	9	6	LSS	1	1706	129	2.11
2	10	9	2	NSF	4	1266	137	11.37
2	10	9	1	LNS	2	722	133	9.97
2	10	9	5	WS	1	844	131	4.27
2	10	9	7	LSS	4	1021	126	14.10

2	10	9	4	MW	11	316	132	125.32
2	10	9	3	LNS	3	1808	133	5.97
2	10	8	5	NSF	1	844	131	4.27
2	10	8	2	K	1	1266	137	2.94
2	10	9	2	WS	1	1266	137	2.84
2	10	9	5	LNS	4	844	131	17.06
2	10	9	2	LSS	1	988	129	3.64
2	10	9	1	LSS	2	649	131	11.09
2	10	9	2	AG	4	988	129	14.57
2	10	9	4	MW	52	997	125	197.76
2	10	9	2	RT	2	988	129	7.29
2	10	9	4	LSS	2	997	125	7.22
2	10	9	4	LW	1	997	125	3.61
2	10	9	3	LNS	1	787	127	4.57
2	10	9	2	MW	117	988	129	426.32
2	10	9	3	MW	62	787	127	253.61
2	10	9	3	LSS	3	787	127	13.72
2	10	9	1	MW	44	649	131	244.07
2	10	9	1	AG	1	649	131	5.55
2	10	9	3	LW	1	797	127	4.57
2	10	10	1	MW	10	3104	149	11.60
2	10	10	1	LNS	2	3104	149	2.32
2	10	10	1	DV	1	3104	149	1.16
2	10	10	1	RT	12	3104	149	13.92
2	10	10	1	LW	2	3104	149	2.32
2	10	11	6	MW	38	1237	132	110.59
2	10	11	5	RT	2	1210	136	5.95
2	10	11	6	RT	1	1237	132	2.91
2	10	11	4	LSS	1	673	139	5.35
2	10	11	3	LNS	1	1300	143	2.77
2	10	11	1	LW	2	1390	146	5.18
2	10	11	5	LW	1	1210	136	2.98
2	10	11	3	RT	1	1300	143	2.77
2	10	11	3	K	1	1300	143	2.77
2	10	11	5	MW	10	1210	136	29.75
2	10	11	6	AG	1	1237	132	2.91
2	10	11	2	RT	3	1376	144	7.85
2	10	11	2	LW	2	1376	144	5.23
2	10	11	4	MW	62	673	139	331.65
2	10	11	3	NSF	1	1300	143	2.77
2	10	11	1	MW	34	1390	146	98.06
2	10	11	4	LNS	2	673	139	10.70
2	10	11	3	MW	49	1300	143	135.69
2	10	11	1	WS	1	1390	146	2.59
2	10	11	5	LSS	5	1210	136	14.88
2	10	11	1	GE	1	1390	146	2.59
2	10	11	1	LSS	1	1390	146	2.59
2	10	11	1	RT	1	1390	146	2.59
2	10	11	2	MW	67	1376	144	175.29
2	10	12	2	RT	1	742	128	4.85
2	10	12	4	MW	38	1275	124	107.29
2	10	12	1	RT	5	1166	130	15.44
2	10	12	4	LNS	1	1275	124	2.82
2	10	12	4	RT	7	1275	124	19.76
2	10	12	3	LNS	2	1451	126	4.96
2	10	12	3	MW	46	1451	126	114.13
2	10	12	5	LW	1	1365	121	2.64
2	10	12	1	MW	64	1166	130	197.60

2	10	12	2 MW	72	742	128	349.33
2	10	12	3 LW	2	1451	126	4.96
2	10	12	3 LSS	2	1451	126	4.96
2	10	12	1 WS	1	1166	130	3.09
2	10	12	5 MW	63	1365	121	166.15
2	10	12	2 DV	1	742	128	4.85
2	10	13	3 LSS	3	860	121	12.56
2	10	13	4 MW	56	776	117	259.79
2	10	13	3 MW	59	860	121	246.98
2	10	13	6 LW	1	1273	113	2.83
2	10	13	5 LSS	4	957	116	15.05
2	10	13	4 LSS	1	776	117	4.64
2	10	13	1 MW	30	489	130	220.86
2	10	13	6 MW	31	1273	113	97.67
2	10	13	1 RT	1	489	130	7.36
2	10	13	1 DV	1	489	130	7.36
2	10	13	6 LNS	3	1273	113	8.48
2	10	13	5 WS	1	957	116	3.76
2	10	13	4 LNS	2	776	117	9.28
2	10	13	6 LSS	7	1273	113	19.80
2	10	13	3 LNS	2	860	121	8.37
2	10	13	2 LSS	8	963	127	29.91
2	10	13	2 LNS	3	963	127	11.21
2	10	13	2 LW	2	963	127	7.48
2	10	13	3 AG	1	860	121	4.19
2	10	13	5 MW	35	957	116	131.66
2	10	13	5 AG	1	957	116	3.76
2	10	13	6 AG	6	1273	113	16.97
2	10	13	2 MW	33	963	127	123.36
2	10	13	3 DV	1	860	121	4.19
2	10	13	1 LNS	1	489	130	7.36
2	10	14	2 AG	7	841	109	29.96
2	10	14	1 LSS	6	793	112	27.24
2	10	14	2 DV	3	841	109	12.84
2	10	14	1 MW	25	793	112	113.49
2	10	14	2 LW	2	841	109	5.56
2	10	14	1 RT	1	793	112	4.54
2	10	14	2 WS	2	841	109	5.56
2	10	14	2 RT	3	841	109	12.84
2	10	14	2 NP	3	841	109	12.84
2	10	14	1 LNS	3	793	112	13.62
2	10	14	1 AG	2	793	112	9.08
2	10	14	1 LW	4	793	112	18.16
2	10	14	2 MW	94	841	109	102.38
2	10	15	1 LW	1	1365	107	2.64
2	10	15	1 AG	1	1365	107	2.64
2	10	15	1 RT	3	1365	107	7.91
2	10	15	1 DV	1	1365	107	2.64
2	10	15	1 LSS	4	1365	107	10.55
2	10	15	1 MW	38	1365	107	100.22
2	10	16	3 AG	4	2275	105	6.33
2	10	16	3 MW	68	2275	105	107.60
2	10	16	3 WS	1	2275	105	1.58
2	10	16	1 LSS	3	2095	115	5.16
2	10	16	3 LNS	1	2275	105	1.58
2	10	16	3 NP	3	2275	105	4.75
2	10	16	3 LW	2	2275	105	3.16
2	10	16	3 RT	1	2275	105	1.58

2	10	16	2	MW	58	1221	112	259.46
2	10	16	1	NP	1	2095	115	1.72
2	10	16	2	RT	1	1221	112	2.95
2	10	16	1	MW	30	2095	115	51.55
2	10	16	2	AG	3	1221	112	9.85
2	10	19	4	AG	1	1499	94	2.40
2	10	19	2	WS	2	1650	102	4.36
2	10	19	1	DV	1	1538	105	2.34
2	10	19	2	LSS	1	1650	102	2.18
2	10	19	4	DV	1	1499	94	2.40
2	10	19	1	LSS	7	1538	105	16.38
2	10	19	5	LSS	2	1298	91	5.55
2	10	19	4	MW	40	1499	94	96.06
2	10	19	1	AG	1	1538	105	2.34
2	10	19	1	RT	1	1538	105	2.34
2	10	19	5	AG	1	1298	91	2.77
2	10	19	1	MW	39	1538	105	91.29
2	10	19	1	LNS	3	1538	105	7.02
2	10	19	1	WS	2	1538	105	4.68
2	10	19	4	LNS	9	1499	94	21.61
2	10	19	1	YW	4	1650	102	8.73
2	10	19	5	DV	1	1298	91	2.77
2	10	19	2	LW	11	1650	102	24.00
2	10	19	4	NSF	1	1499	94	2.40
2	10	19	2	NP	1	1650	102	2.18
2	10	19	3	LSS	1	560	99	6.43
2	10	19	3	MW	57	560	99	366.43
2	10	19	5	LNS	1	1298	91	2.77
2	10	19	1	LW	1	1538	105	2.34
2	10	19	4	LSS	1	1499	94	2.40
2	10	19	5	MW	20	1298	91	55.47
2	10	19	3	LNS	1	560	99	6.43
2	10	19	2	MW	9	1650	102	19.64
2	10	21	1	LNS	2	1467	78	4.91
2	10	21	5	MW	2	687	66	10.48
2	10	21	5	AG	4	687	66	20.96
2	10	21	1	AG	1	1467	78	2.45
2	10	21	4	LNS	2	1000	67	7.20
2	10	21	5	LNS	3	687	66	15.72
2	10	21	4	AG	4	1000	67	14.40
2	10	21	2	LW	1	2592	71	1.39
2	10	21	5	LSS	1	687	66	5.24
2	10	21	1	NP	2	1467	78	4.91
2	10	21	4	LSS	2	1000	67	7.20
2	10	21	4	NP	1	1000	67	3.60
2	10	21	1	LSS	2	1467	78	4.91
2	10	21	1	WS	1	1467	78	2.45
2	10	21	1	MW	14	1467	78	34.36
2	10	21	3	LNS	1	2346	66	1.53
2	10	21	1	LW	1	1467	78	2.45
2	10	21	3	AG	12	2346	66	15.41
2	10	21	2	MW	49	2592	71	65.06
2	10	21	2	NP	2	2592	71	2.78
2	10	21	2	AG	3	2592	71	4.17
2	10	21	4	WS	1	1000	67	3.60
2	10	21	4	MW	25	1000	67	90.00
2	10	21	3	LW	2	2346	66	3.07
2	10	21	5	NSF	2	687	66	10.48

2	10	21	3	RT	1	2346	66	1.53
2	10	21	3	MW	20	2346	66	30.69
2	10	22	2	AG	4	1575	61	9.14
2	10	22	4	WS	2	1728	54	4.17
2	10	22	3	WS	1	1161	59	3.10
2	10	22	2	LNS	4	1575	61	9.14
2	10	22	2	WS	2	1575	61	4.57
2	10	22	4	LSS	2	1728	54	4.17
2	10	22	2	LW	1	1575	61	2.29
2	10	22	4	MW	10	1729	54	20.82
2	10	22	1	MW	72	1031	65	251.41
2	10	22	3	LNS	1	1161	59	3.10
2	10	22	2	MW	55	1575	61	125.71
2	10	22	3	AG	1	1161	59	3.10
2	10	22	3	MW	28	1161	59	96.82
2	10	22	1	AG	9	1031	65	31.43
2	10	22	2	NP	2	1575	61	4.57
2	10	22	4	LNS	7	1728	54	14.58
2	10	22	3	NP	3	1161	59	9.30
2	10	23	1	AG	1	1958	27	1.84
2	10	23	1	MW	30	1958	27	55.16
2	10	23	2	LW	2	340	45	21.15
2	10	23	2	MW	9	340	45	95.29
2	10	24	1	LNS	1	5870	26	0.61
2	10	24	1	LING	1	5870	26	0.61
2	10	24	1	YW	31	5870	26	19.01
2	10	24	1	NP	1	5870	26	0.61
2	10	25	2	MW	72	1237	63	209.54
2	10	25	3	MW	26	818	61	114.43
2	10	25	1	AG	1	1507	67	2.39
2	10	25	2	AG	6	1237	63	17.46
2	10	25	1	MW	24	1507	67	57.33
2	10	25	2	DV	1	1237	63	2.91

APPENDIX 4.1A. Raw data of electrofishing runs conducted
by Crew 1 on the mainstem Peace River during June, 1989.

CREW NO.	MONTH	DAY	RUN NO.	SPEC	SPEC NO.	SEC	KM	SPCUE NO. FISH/HR*2
1	5	26	1	K	1	415	47	17.35
1	5	26	1	LNS	7	415	47	121.45
1	5	26	1	MW	3	415	47	52.05
1	5	26	1	WS	1	415	47	17.35
1	5	26	2	MW	12	780	49	110.77
1	5	28	1	MW	8	584	47	98.63
1	5	28	2	LNS	3	1539	38	14.04
1	5	28	2	LW	1	1539	38	4.68
1	5	28	2	MW	10	1539	38	46.75
1	5	28	2	WS	2	1539	38	9.36
1	5	28	3	DV	1	1842	31	3.91
1	5	28	3	LING	1	1842	31	3.91
1	5	28	3	LNS	1	1842	31	3.91
1	5	28	3	MW	10	1842	31	39.09
1	5	28	3	WS	1	1842	31	3.91
1	5	28	4	GE	2	874	26	16.48
1	5	28	4	LNS	18	874	26	148.28
1	5	28	4	MW	1	874	26	8.24
1	5	28	4	YW	3	874	26	24.71
1	5	29	1	FHC	2	1448	4	9.94
1	5	29	1	LNS	12	1448	4	59.67
1	5	29	1	MW	3	1448	4	14.92
1	6	24	6	AG	2	1597	66	9.02
1	6	24	6	LNS	9	1597	66	40.58
1	6	24	6	LSS	4	1597	66	18.03
1	6	24	6	LW	1	1597	66	4.51
1	6	24	6	MW	7	1597	66	31.56
1	6	25	1	AG	3	2324	52	9.29
1	6	25	1	LNS	3	2324	52	9.29
1	6	25	1	LSS	1	2324	52	3.10
1	6	25	1	LW	1	2324	52	3.10
1	6	25	1	MW	13	2324	52	40.28
1	6	25	1	NP	1	2324	52	3.10
1	6	25	2	DV	1	1432	49	5.03
1	6	25	2	LNS	3	1432	49	15.08
1	6	25	2	LSS	2	1432	49	10.06
1	6	25	2	MW	5	1432	49	25.14
1	6	25	3	GE	1	851	48	8.46
1	6	25	3	LNS	9	851	48	76.15
1	6	25	3	LSS	3	851	48	25.38
1	6	26	1	LNS	5	1974	25	18.24
1	6	26	1	LSS	2	1974	25	7.29
1	6	26	1	MW	2	1974	25	7.29
1	6	26	1	NP	1	1974	25	3.65
1	6	26	2	GE	2	4921	26	2.93
1	6	26	2	LING	2	4921	26	2.93
1	6	26	2	LKC	1	4921	26	1.46
1	6	26	2	LNS	20	4921	26	29.26
1	6	26	2	LSS	5	4921	26	7.32
1	6	26	2	NP	1	4921	26	1.46
1	6	26	2	YW	24	4921	26	35.11
1	6	27	1	GE	2	1950	12	7.38
1	6	27	1	LNS	7	1950	12	25.85

1	6	27	1 LSS	2	1950	12	7.38
1	6	27	1 NP	1	1950	12	3.69
1	6	27	1 NSF	1	1950	12	3.69
1	6	27	1 YW	13	1950	12	48.00
1	6	27	2 NP	3	772	11	27.98
1	6	27	2 NSF	1	772	11	9.33
1	6	27	3 DV	1	1548	10	4.65
1	6	27	3 MW	1	1548	10	4.65
1	6	27	3 NSF	1	1548	10	4.65
1	6	27	4 GE	4	2722	26	10.58
1	6	27	4 NP	1	2722	26	2.65
1	6	27	4 YW	25	2722	26	66.13
1	6	28	1 GE	5	6917	26	5.20
1	6	28	1 NSF	4	6917	26	4.16
1	6	28	1 YW	78	6917	26	81.19

APPENDIX 4.1B
Fish Capture Summaries
- Boat Electrofishing, Halfway River

Appendix 4.1B Table 1 Percent occurrence in electrofishing runs and catch-per-unit-effort (CUE) of fish captured during spring and fall, Halfway River, 1989.

Species	SPRING				FALL			
	Occurrence in runs		CUE		Occurrence in runs		CUE	
	No.	%	No.	#/hr	No.	%	No.	#/hr
<i>Sport fish</i>								
Arctic grayling	-	-	-	-	6	54.1	23	1.7
Bull trout	1	20.0	3	0.3	6	54.1	19	1.4
Kokanee	-	-	-	-	1	9.0	1	<0.1
Burbot	2	40.0	4	0.4	-	-	-	-
Lake whitefish	-	-	-	-	1	9.0	1	<0.1
Mountain whitefish	4	80.0	12	1.2	10	90.9	398	51.39
Northern pike	-	-	-	-	1	9.0	1	<0.1
Rainbow trout	-	-	-	-	1	9.0	1	<0.1
<i>Non-sport fish</i>								
Longnose sucker	5	100.0	44	4.1	4	36.4	18	1.7
Largescale sucker	5	100.0	24	2.3	-	-	-	-
Northern squawfish	1	20.0	2	0.2	1	9.0	1	<0.1
White sucker	-	-	-	-	1	9.0	1	<0.1

APPENDIX 4.1B. Raw data of electrofishing runs conducted by Crew 1 on the mainstem Halfway River during 1989.

CREW	MONTH	DAY	RUN NO.	SPEC	SPEC NO.	SEC NO.	KM	SPCUE NO. FISH/HR
1	6	22	1	FHC	1	2186	5	1.65
1	6	22	1	LNS	15	2186	5	24.70
1	6	22	1	LSS	3	2186	5	4.94
1	6	22	1	MW	3	2186	5	4.94
1	6	22	1	NSF	2	2186	5	3.29
1	6	23	2	DV	3	1723	25	6.27
1	6	23	2	LING	2	1723	25	4.18
1	6	23	2	LNS	11	1723	25	22.98
1	6	23	2	LSS	9	1723	25	18.80
1	6	23	2	MW	3	1723	25	6.27
1	6	23	3	LNS	10	2121	20	16.97
1	6	23	3	LSS	6	2121	20	10.18
1	6	23	4	LNS	7	2225	15	11.33
1	6	23	4	LSS	5	2225	15	8.09
1	6	23	4	MW	3	2225	15	4.85
1	6	23	5	LING	2	1892	10	3.81
1	6	23	5	LNS	1	1892	10	1.90
1	6	23	5	LSS	1	1892	10	1.90
1	6	23	5	MW	3	1892	10	5.71
1	10	12	1	MW	27	1100	18	88.36
1	10	12	2	MW	9	910	16	35.60
1	10	12	3	MW	39	696	15	201.72
1	10	12	4	AG	1	611	13	5.89
1	10	12	4	MW	25	611	13	147.30
1	10	12	5	LNS	5	574	12	31.36
1	10	12	5	MW	26	574	12	163.07
1	10	12	5	WS	1	574	12	6.27
1	10	12	5	DV	2	574	12	12.54
1	10	13	1	AG	3	1476	42	7.32
1	10	13	1	DV	5	1476	42	12.20
1	10	13	1	LNS	3	1476	42	7.32
1	10	13	1	MW	39	1476	42	95.12
1	10	13	2	AG	7	2277	39	11.07
1	10	13	2	DV	3	2277	39	4.74
1	10	13	2	MW	57	2277	39	90.12
1	10	13	2	NP	1	2277	39	1.58
1	10	13	2	RT	1	2277	39	1.58
1	10	14	1	AG	7	1768	35	14.25
1	10	14	1	DV	2	1768	35	4.07
1	10	14	1	LNS	7	1768	35	14.25
1	10	14	1	MW	43	1768	35	87.56
1	10	14	1	NSF	1	1768	35	2.04
1	10	14	2	AG	4	3136	21	4.59
1	10	14	2	DV	3	3136	21	3.44
1	10	14	2	K	1	3136	21	1.15
1	10	14	2	LNS	3	3136	21	3.44
1	10	14	2	LW	1	3136	21	1.15
1	10	14	2	MW	65	3136	21	74.62
1	10	14	3	AG	1	273	1	13.19
1	10	14	3	MW	51	273	1	672.53
1	10	14	4	DV	4	1536	12	9.38
1	10	14	4	MW	17	1536	12	39.54

APPENDIX 4.2A
Life History Data

Appendix 4.2A Code Descriptions.

Fish Species Abbreviations	
Abbrev.	Common Name
DV	Bull trout
LT	Lake trout
AG	Arctic grayling
MW	Mountain whitefish
LW	Lake Whitefish
K	Kokanee
LNS	Longnose sucker
WS	White sucker
LSS	Largescale Sucker
GE	Goldeye
NP	Northern pike
LING	Burbot
RSS	Redside shiner
NSF	Northern squawfish
FHC	Flathead chub
LKC	Lake chub

Sex and Maturity Descriptions			
Male	Female	Class	Description
99	99	Immature A	Sex indeterminable due to small gonad size
01	11	Immature B	Small gonad size; fish has never spawned and will not spawn during the coming spawning season
02	12	Maturity Questionable	Small gonad size; it cannot be determined if fish is immature or if it will spawn during the coming spawning season
03	13	Developing A	Definite gonad development; fish has never spawned before but will spawn during the coming season
04	14	Developing B	Definite gonad development; the fish has spawned before and will spawn during the coming season
05	15	Developing C	Definite gonad development; the fish has spawned before but will not spawn during the coming spawning season, i.e., alternate year spawners
06	16	Developing D	Used to indicate definite gonad development when the classification into categories "Developing A, B, or C" cannot be determined, or when such a breakdown is unsuitable or unnecessary
07	17	Gravid/fully developed	Sexual organs fill ventral cavity; testes white, drops of milt fall with pressure; eggs completely round, some already translucent
08	18	Ripe	Roe or milt are extruded by slight pressure on the body
09	19	Spent	Spawning completed; resorption of residual ovarian tissue is not yet complete
10	20	External	Sex determined by external characteristics; maturity and sex not verified by gonad examinations

Other Codes	
Code	Ageing Methods (Col. 31-32)
SC	Scales
OT	Otoliths
SO	Scales and Otoliths
FR	Fin Ray
SF	Scales and Fin Rays
Code	Capture Methods (Col. 33-34)
GN	Gill Net
ES	Electroshocker - boat shocker
AL	Angling
Code	Tag Code (Col. 38)
Y,W,R.	Color code for tag (i.e., yellow, white, or red, etc.)
F	Fin Clip
Code	Capture Code
0	First capture, released
1	First capture, sacrificed
2	Recapture, released
3	Recapture, sacrificed

SSIG RLL1 PRIGEL P=ISO T=JOS PACKAGE#LOOSE
Batch,Low,External/Commercial
Last signon was at 14:11:29, Mon Feb 19/90
User RLL1 signed on at 14:53:53, Mon Feb 19/90
Warning -- the PWCONFIRM option will be removed shortly.
SET ECHO=OFF TRIM=ON

SCREATE -FSHSC SIZE=40P
File "-FSHSC" has been created.

SRUN FISHLOAD 9=FISHCNTRL 10=89SCLHRU.OTA 11=-FSHSC
14:53:56

```
*****  
*****  
*****  
***** FISHERIES DATA ANALYSIS *****  
*****  
***** PROGRAMS WRITTEN BY *****  
***** G. ASM SUMMER, 1978 *****  
*****  
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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP	LENGTH (MM)	WEIGHT (G)	SEX MAT	GONAD WT(G)	AGE METH	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
C 720	AG	287						ES		Y14185	14 10 89	HALFO	KM00.1	0	0	
C 420	AG	217						ES			12 10 89	HALFO	KM01.3	0	0	
C 708	AG	275	285			3	SC	ES			14 10 89	HALFO	KM02.1	0	0	
C 895	AG	214	120			3	SC	ES			14 10 89	HALFO	KM02.1	0	0	
C 701	AG	316	428			4	SC	ES		Y14175	14 10 89	HALFO	KM02.1	0	0	
C 889	AG	178	70			2	SC	ES			14 10 89	HALFO	KM02.1	0	0	
C 610	AG	303	390			4	SC	ES		Y14101	14 10 89	HALFO	KM03.5	0	0	
C 613	AG	240	180			2	SC	ES			14 10 89	HALFO	KM03.5	0	0	
C 819	AG	280	280			3	SC	ES		Y14108	14 10 89	HALFO	KM03.5	0	0	
C 631	AG	206	110			3	SC	ES			14 10 89	HALFO	KM03.5	0	0	
C 620	AG	249	180			2	SC	ES			14 10 89	HALFO	KM03.5	0	0	
C 611	AG	283	305			3	SC	ES		Y14102	14 10 89	HALFO	KM03.5	0	0	
C 627	AG	205	100				SC	ES			14 10 89	HALFO	KM03.5	0	0	
C 563	AG	285						ES		Y14084	13 10 89	HALFO	KM03.9	0	0	
C 538	AG	223						ES			13 10 89	HALFO	KM03.9	0	0	
C 565	AG	240						ES		Y14085	13 10 89	HALFO	KM03.9	0	0	
C 528	AG	345						ES		Y14037	13 10 89	HALFO	KM03.9	0	0	
C 564	AG	283						ES			13 10 89	HALFO	KM03.9	0	0	
C 588	AG	234						ES		Y14089	13 10 89	HALFO	KM03.9	0	0	
C 537	AG	272						ES		Y14046	13 10 89	HALFO	KM03.9	0	0	
C 502	AG	214						ES			13 10 89	HALFO	KM04.2	0	0	
C 494	AG	177						ES			13 10 89	HALFO	KM04.2	0	0	
C 483	AG	383	350					ES		Y14014	13 10 89	HALFO	KM04.2	0	0	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = AG
 LOCATION = HALFO SITE(S) = KM00.1 KM01.3 KM02.1 KM03.5 KM03.9 KM04.2

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 23

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
180- 179	2	8.7	1.24	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
180- 199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 219	5	21.7	1.21	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	2	8.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	3	13.0	1.23	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	5	21.7	1.27	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	2	8.7	1.31	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	2	8.7	1.38	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	1	4.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	1	4.3	0.73	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	23	100.0		12	0	0.0		0	0	0.0		0	0.0		0	0
COND. FACTORS SUMMARY		MEAN =	1.2282		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDDEV =	0.1722		STDDEV =	0.0000			STDDEV =	0.0000			STDDEV =	0.0000		
		COEVAR =	14.0218		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0359		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	12		N =	0			N =	0			N =	0		
MEDIAN SIZE			257 MM			0 MM				0 MM				0 MM		

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS * G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
50- 99	1	8.3	1.24	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
100- 149	3	25.0	1.21	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
150- 199	2	16.7	1.23	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 249	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250- 299	2	16.7	1.27	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 349	1	8.3	1.35	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	2	16.7	1.07	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 449	1	8.3	1.36	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	12	100.0		12	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY	MEAN = 1.2282 STDEY = 0.1722 COEVAR = 14.0218 STDERR = 0.0389 N = 12				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	25% G				0 G				0 G				0 G			

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.927494466
- 2) N = 12
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -4.308007 + 2.74732018 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.49203E-04 \text{ LENGTH TO THE } 2.74732018$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-4.308007	-7.368816	0.584819
SLOPE	2.747320	11.310157	0.242907

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.406179

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.299789

7) SUM OF X SQUARED = 89.5088

8) SUM OF Y SQUARED = 84.2089

9) SUM OF XY = 86.6272

SUM OF SMALL X SQUARED = 0.081125

SUM OF SMALL Y SQUARED = 0.741562

SUM OF SMALL XY = 0.250351

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ.	F
REGRESS	1	0.88779421	0.88779421	127.9196
ERROR	10	0.05376768	0.00537677	
TOTAL	11	0.7415619		

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	RES CODE	COMMENTS
A3947	LSS	478						ES			27 8 89	PEACN	KM02.3	0	0	
A3927	LSS	478						ES		Y11780	27 8 89	PEACN	KM02.3	0	0	
A3902	LSS	484						ES			27 8 89	PEACN	KM02.6	0	0	
A3918	LSS	523						ES		Y11770	27 8 89	PEACN	KM02.6	0	0	
A3841	LSS	406						ES		Y11698	27 8 89	PEACN	KM03.0	0	0	
A3837	LSS	422						ES		Y11696	27 8 89	PEACN	KM03.0	0	0	
A3747	LSS	483						ES			27 8 89	PEACN	KM03.6	0	0	
A3625	LSS	424						ES		Y11533	26 8 89	PEACN	KM04.6	0	0	
A3611	LSS	500						ES		Y11528	26 8 89	PEACN	KM04.6	0	0	
A3607	LSS	473						ES		Y11504	26 8 89	PEACN	KM04.6	0	0	
A3600	LSS	337						ES		Y10988	26 8 89	PEACN	KM04.9	0	0	
A3583	LSS	496						ES		Y10992	26 8 89	PEACN	KM04.9	0	0	
A3584	LSS	553						ES		Y10994	26 8 89	PEACN	KM04.9	0	0	
A4616	LSS	380						ES		Y13310	29 8 89	PEACN	KM05.3	0	0	
A4941	LSS	535						ES			30 8 89	PEACN	KM05.5	0	0	
A4945	LSS	517						ES			30 8 89	PEACN	KM05.5	0	0	
A4963	LSS	471						ES		Y13572	30 8 89	PEACN	KM05.5	0	0	
A4574	LSS	535						ES		Y13286	29 8 89	PEACN	KM05.8	0	0	
A4911	LSS	456						ES		Y13583	30 8 89	PEACN	KM05.7	0	0	
A4810	LSS	321						ES		Y13540	30 8 89	PEACN	KM05.7	0	0	
A4827	LSS	518						ES			30 8 89	PEACN	KM05.7	0	0	
A4816	LSS	515						ES			30 8 89	PEACN	KM05.7	0	0	
A4844	LSS	321						ES		Y13533	30 8 89	PEACN	KM05.8	0	0	
A4841	LSS	520						ES		Y13532	30 8 89	PEACN	KM05.8	0	0	
A4829	LSS	385						ES		Y13488	30 8 89	PEACN	KM05.9	0	0	
A4514	LSS	483						ES		Y13280	29 8 89	PEACN	KM05.9	0	0	
A4508	LSS	557					SC	ES		Y13246	29 8 89	PEACN	KM05.9	0	0	RRC #02558 (WHITE)
A4821	LSS	540						ES		Y13484	30 8 89	PEACN	KM05.9	0	0	
A4540	LSS	326						ES		Y13282	29 8 89	PEACN	KM05.9	0	0	
A4845	LSS	464						ES		Y13482	30 8 89	PEACN	KM05.9	0	0	
A4520	LSS	537						ES		Y13249	29 8 89	PEACN	KM05.9	0	0	
A4820	LSS	442						ES		Y13467	30 8 89	PEACN	KM05.9	0	0	
A4798	LSS	351						ES		Y13476	30 8 89	PEACN	KM06.1	0	0	
A4775	LSS	474						ES		Y13422	30 8 89	PEACN	KM06.1	0	0	
A4487	LSS	472						ES		Y13226	29 8 89	PEACN	KM06.1	0	0	
A4471	LSS	484						ES		Y13227	29 8 89	PEACN	KM06.1	0	0	
A4770	LSS	439						ES		Y13440	30 8 89	PEACN	KM06.1	0	0	
A4780	LSS	539						ES		Y13445	30 8 89	PEACN	KM06.1	0	0	
A4782	LSS	452						ES		Y13446	30 8 89	PEACN	KM06.1	0	0	
A4766	LSS	538						ES		Y13418	30 8 89	PEACN	KM06.1	0	0	
A4789	LSS	358						ES		Y13455	30 8 89	PEACN	KM06.1	0	0	
A4781	LSS	400						ES		Y13436	30 8 89	PEACN	KM06.1	0	0	
A4388	LSS	330						ES		Y13150	29 8 89	PEACN	KM06.3	0	0	
A4387	LSS	507						ES		Y13121	29 8 89	PEACN	KM06.3	0	0	
A4411	LSS	537						ES		Y13179	29 8 89	PEACN	KM06.3	0	0	
A4733	LSS	408						ES		Y13405	30 8 89	PEACN	KM06.4	0	0	
A4730	LSS	535						ES			30 8 89	PEACN	KM06.4	0	0	
A4350	LSS	395						ES		Y13105	29 8 89	PEACN	KM06.4	0	0	
A4253	LSS	483						ES		Y13025	28 8 89	PEACN	KM06.4	0	0	

A4351	LSS	382						ES		Y13108	29 8 89	PEACN	KM06.4	0	0	
A4337	LSS	313						ES		Y13085	29 8 89	PEACN	KM06.4	0	0	
A4703	LSS	370						ES		Y13373	30 8 89	PEACN	KM06.4	0	0	
A4737	LSS	480						ES		Y13406	30 8 89	PEACN	KM06.4	0	0	
A4358	LSS	460						ES		Y13109	29 8 89	PEACN	KM06.4	0	0	
A4346	LSS	410						ES		Y13102	29 8 89	PEACN	KM06.4	0	0	
A4268	LSS	455						ES		Y13040	28 8 89	PEACN	KM06.4	0	0	
A4250	LSS	420						ES		Y13023	28 8 89	PEACN	KM06.4	0	0	
A4383	LSS	365						ES		Y13132	29 8 89	PEACN	KM06.4	0	0	
A4715	LSS	528						ES		Y13396	30 8 89	PEACN	KM06.4	0	0	
A4347	LSS	484						ES		Y13103	29 8 89	PEACN	KM06.4	0	0	
A4257	LSS	494						ES		Y13027	28 8 89	PEACN	KM06.4	0	0	
A4706	LSS	540						ES			30 8 89	PEACN	KM06.4	0	0	
A4704	LSS	420						ES			30 8 89	PEACN	KM06.4	0	0	
A4328	LSS	408						ES		Y13082	29 8 89	PEACN	KM06.4	0	0	
A4736	LSS	483						ES			30 8 89	PEACN	KM06.4	0	0	
A4294	LSS	505						ES			29 8 89	PEACN	KM06.6	0	0	
A4686	LSS	277						ES		Y13367	30 8 89	PEACN	KM06.6	0	0	
A4221	LSS	423						ES		Y11996	28 8 89	PEACN	KM06.6	0	0	
A4685	LSS	449						ES		Y13382	30 8 89	PEACN	KM06.6	0	0	
A4286	LSS	356						ES		Y13063	29 8 89	PEACN	KM06.6	0	0	
A4223	LSS	387						ES		Y11984	28 8 89	PEACN	KM06.6	0	0	
A4696	LSS	384						ES		Y13371	30 8 89	PEACN	KM06.6	0	0	
A4691	LSS	418						ES		Y13389	30 8 89	PEACN	KM06.6	0	0	
A4296	LSS	480						ES		Y13058	29 8 89	PEACN	KM06.6	0	0	
A4210	LSS	429						ES			28 8 89	PEACN	KM06.6	0	0	
A4281	LSS	483						ES		Y13079	29 8 89	PEACN	KM06.6	0	0	
A4306	LSS	530						ES		Y13083	29 8 89	PEACN	KM06.6	0	0	
A4309	LSS	383						ES		Y13084	29 8 89	PEACN	KM06.6	0	0	
A4283	LSS	492						ES		Y13052	29 8 89	PEACN	KM06.6	0	0	
A4681	LSS	580						ES		Y13385	30 8 89	PEACN	KM06.6	0	0	
A4295	LSS	457						ES		Y13057	29 8 89	PEACN	KM06.6	0	0	
A4308	LSS	384						ES		Y13085	29 8 89	PEACN	KM06.6	0	0	
A4284	LSS	483						ES		Y13076	29 8 89	PEACN	KM06.6	0	0	
A4297	LSS	476						ES		Y13080	29 8 89	PEACN	KM06.6	0	0	
A4212	LSS	525						ES		Y11990	28 8 89	PEACN	KM06.6	0	0	
A4289	LSS	497						ES		Y13054	29 8 89	PEACN	KM06.6	0	0	
A4299	LSS	473						ES		Y13060	29 8 89	PEACN	KM06.6	0	0	
A4302	LSS	488						ES		Y13082	29 8 89	PEACN	KM06.6	0	0	
A4301	LSS	566						ES		Y13061	29 8 89	PEACN	KM06.6	0	0	
A4638	LSS	328						ES		Y13216	29 8 89	PEACN	KM06.7	0	0	
A4202	LSS	373						ES		Y11981	28 8 89	PEACN	KM06.7	0	0	
A4199	LSS	379						ES		Y11978	28 8 89	PEACN	KM06.7	0	0	
A4639	LSS	458						ES		Y13348	29 8 89	PEACN	KM06.7	0	0	
A4637	LSS	489						ES		Y13347	29 8 89	PEACN	KM06.7	0	0	
A4121	LSS	372						ES		Y11915	28 8 89	PEACN	KM07.1	0	0	
A2983	LSS	486						ES		Y10673	23 8 89	PEACN	KM09.8	0	0	
A2927	LSS	541						ES		Y10680	23 8 89	PEACN	KM10.2	0	0	
A2830	LSS	459						ES		Y10680	23 8 89	PEACN	KM10.2	0	0	
A2241	LSS	388						ES		Y10080	19 8 89	PEACN	KM11.3	0	0	
A1883	LSS	543						ES		Y 9657	16 8 89	PEACN	KM12.0	0	0	
A1098	LSS	446						ES		Y 9222	15 8 89	PEACN	KM12.3	0	0	
A1564	LSS	415						ES		Y 9558	16 8 89	PEACN	KM12.5	0	0	
A1578	LSS	525						ES		Y 9589	16 8 89	PEACN	KM12.5	0	0	
A1587	LSS	465						ES		Y 9585	16 8 89	PEACN	KM12.5	0	0	
A1589	LSS	445	1400	9			SC									

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = LSS

LOCATION= PEACJ SITE(S)=KMO1.2 KMO2.5 KMO2.6 KMO4.8 KMO4.9 KMO5.2 KMO6.6 KM10.5 KM11.1 KM12.7
 KM14.3

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 67

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
260- 279	1	1.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	1	1.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	1	1.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	3	4.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	4	5.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	1	1.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	7	10.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	10	14.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	8	8.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	12	17.4	0.00	0	1	100.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	11	15.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	8	8.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	5	7.2	0.00	0	0	0.0	0.00	0	1	100.0	0.00	0	0	0.0	0.00	0
540- 559	1	1.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	89	100.0	-	0	1	100.0	-	0	1	100.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	0.0000		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDEY =	0.0000		STDEY =	0.0000			STDEY =	0.0000			STDEY =	0.0000		
		COEVAR =	0.0000		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0000		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	0		N =	0			N =	0			N =	0		
MEDIAN SIZE		461 MM			471 MM				531 MM				0 MM			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

*****NOTE** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)**NOTE**

SPECIES = LSS

LOCATION= HALPJ SITE(S)=KMO0.5 KMO1.0 KMO1.5 KMO2.0 KMO2.5

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 24

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
260- 279	1	4.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	2	8.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	2	8.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	3	12.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	4	16.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	4	16.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	2	8.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	3	12.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	2	8.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	1	4.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	24	100.0	-	0	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN =	0.0000	STDEV =	0.0000	MEAN =	0.0000	STDEV =	0.0000	MEAN =	0.0000	STDEV =	0.0000	MEAN =	0.0000	STDEV =	0.0000
	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000	CDEVAR =	0.0000
	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000
	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0
MEDIAN SIZE	461 MM				0 MM				0 MM				0 MM			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP	LENGTH (MM)	WEIGHT (G)	SEX- MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H	9	LSS	510						ES	Y 8008	22 8 89	HALFJ	KM00.5	0	0	
H	18	LSS	500						ES	Y 8017	22 8 89	HALFJ	KM00.5	0	0	
H	12	LSS	523						ES	Y 8011	22 8 89	HALFJ	KM00.5	0	0	
H	87	LSS	428						ES		23 8 89	HALFJ	KM01.0	0	0	
H	81	LSS	523						ES	Y 8070	23 8 89	HALFJ	KM01.5	0	0	
H	78	LSS	450						ES	Y 8067	23 8 89	HALFJ	KM01.5	0	0	
H	88	LSS	443						ES	Y 8058	23 8 89	HALFJ	KM01.5	0	0	
H	71	LSS	492						ES	Y 8060	23 8 89	HALFJ	KM01.5	0	0	
H	80	LSS	415						ES	Y 8072	23 8 89	HALFJ	KM01.5	0	0	
H	57	LSS	475						ES	Y 8046	23 8 89	HALFJ	KM02.0	0	0	
H	87	LSS	428						ES		23 8 89	HALFJ	KM02.0	0	0	
H	80	LSS	448						ES	Y 8080	23 8 89	HALFJ	KM02.0	0	0	
H	58	LSS	474						ES	Y 8047	23 8 89	HALFJ	KM02.0	0	0	
H	88	LSS	281						ES	Y 8082	23 8 89	HALFJ	KM02.0	0	0	
H	83	LSS	425						ES	Y 8084	23 8 89	HALFJ	KM02.0	0	0	
H	37	LSS	484						ES		23 8 88	HALFJ	KM02.5	0	0	
H	38	LSS	278						ES	Y 8034	23 8 89	HALFJ	KM02.5	0	0	
H	44	LSS	518						ES		23 8 89	HALFJ	KM02.5	0	0	
H	48	LSS	461						ES	Y 8039	23 8 89	HALFJ	KM02.5	0	0	
H	41	LSS	484						ES		23 8 89	HALFJ	KM02.5	0	0	
H	32	LSS	544						ES	Y 8029	23 8 89	HALFJ	KM02.5	0	0	
H	38	LSS	442						ES	Y 8033	23 8 89	HALFJ	KM02.5	0	0	
H	29	LSS	410						ES	Y 8026	23 8 89	HALFJ	KM02.5	0	0	
H	35	LSS	282						ES	Y 8031	23 8 89	HALFJ	KM02.5	0	0	

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0 87 LNS 181.      ES      7 10 88 PEACD KM14.2 0 0
0 917 LNS 425     ES      11 10 88 PEACD KM14.3 0 0
0 4 LNS 473      ES      7 10 88 PEACD KM14.3 0 0
0 782 LNS 358     ES      10 10 88 PEACD KM14.8 0 0
0 778 LNS 378     ES      10 10 88 PEACD KM14.8 0 0
    
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*****NOTE*** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE****

SPECIES = LNS

LOCATION = PEACD

SITE(S) = KM02.8 KM04.3 KM04.7 KM05.4 KM06.1 KM06.5 KM06.7 KM07.8 KM09.1 KM09.4
 KM09.9 KM10.5 KM10.8 KM11.2 KM11.3 KM11.7 KM12.1 KM12.4 KM12.6 KM12.7
 KM12.8 KM13.0 KM13.1 KM13.3 KM13.5 KM13.7 KM13.9 KM14.2 KM14.3 KM14.9

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 114

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
180- 179	2	1.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
180- 199	1	0.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 219	2	1.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	1	0.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	2	1.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	1	0.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	5	4.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	11	9.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	14	12.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	20	17.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	24	21.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	13	11.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	18	14.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	2	1.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	114	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY			MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			418 MM				0 MM				0 MM				0 MM	

*****NOTE*** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED) *****NOTE***

SPECIES = LNS
 LOCATION = PEACH SITE(S) = KMO2.3 KMO2.8 KMO2.8 KMO3.0 KMO3.6 KMO3.6 KMO4.3 KMO4.5 KMO4.6 KMO4.9 KMO5.3
 KMO5.4 KMO5.5 KMO5.6 KMO5.7 KMO6.8 KMO6.8 KMO6.9 KMO6.1 KMO6.2 KMO6.3 KMO6.4
 KMO8.8 KMO8.7 KMO7.0 KMO7.1 KMO7.3 KMO8.7 KMO8.8 KMO8.9 KMO9.2 KMO9.3 KMO9.4
 KMO10.5 KMO10.6 KMO10.7 KMO11.0 KMO11.1 KMO11.3 KMO11.8 KMO11.8 KMO12.0 KMO12.5
 KMO12.6 KMO12.7 KMO12.8 KMO13.0 KMO13.1 KMO13.2 KMO13.4 KMO13.7 KMO13.9 KMO14.3

414.4 KM14.6 KM14.7 KM14.8 KM14.9

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 505

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
140- 159	1	0.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
160- 179	1	0.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
180- 199	2	0.4	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 219	1	0.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	6	1.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	5	1.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	5	1.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	8	1.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	11	2.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	17	3.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	42	8.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	71	13.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	115	22.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	85	16.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	62	12.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	41	8.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	27	5.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	8	1.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	1	0.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	508	100.0	-	0	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000	
		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000	
		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000	
		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000	

	N = 0	N = 0	N = 0	N = 0
MEDIAN SIZE	395 MM	0 MM	0 MM	0 MM

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0). *****

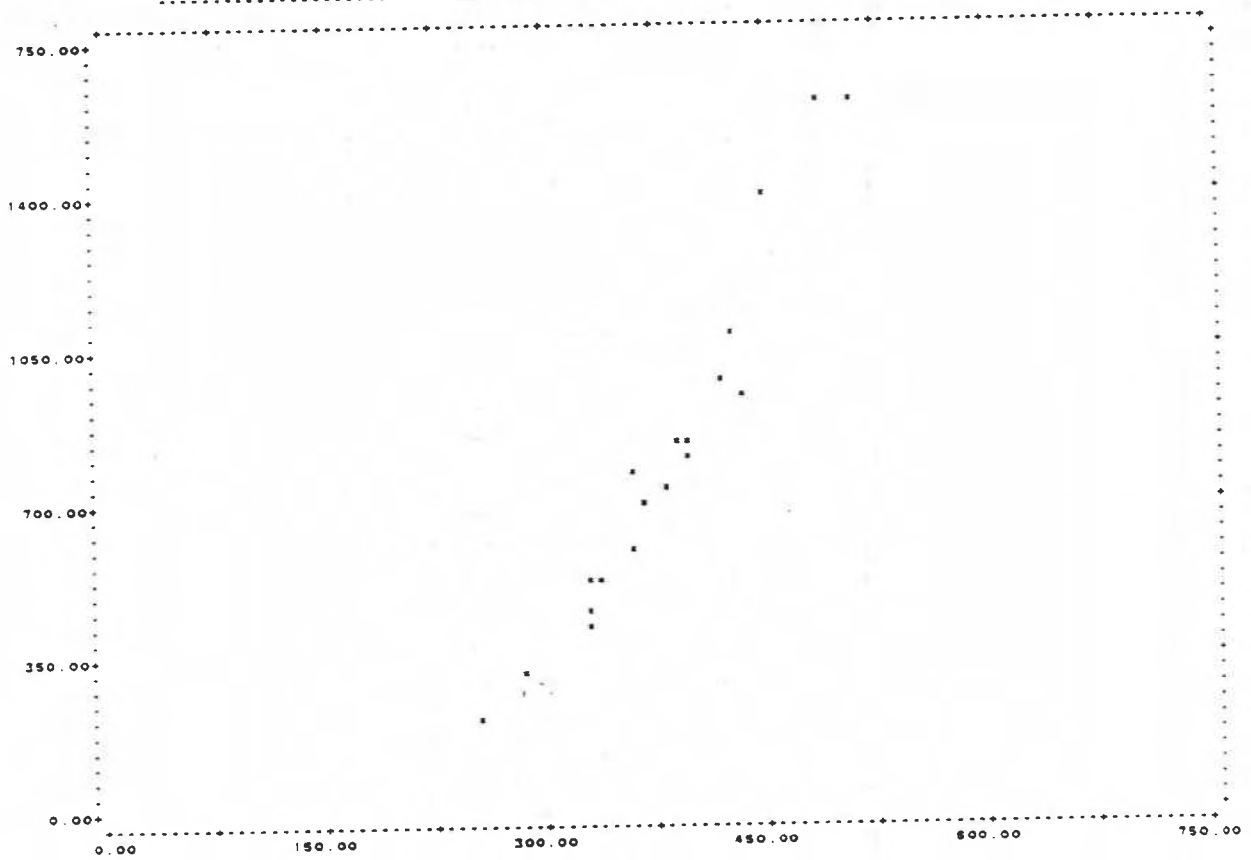
AGE-GROWTH ANALYSIS

== NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ==

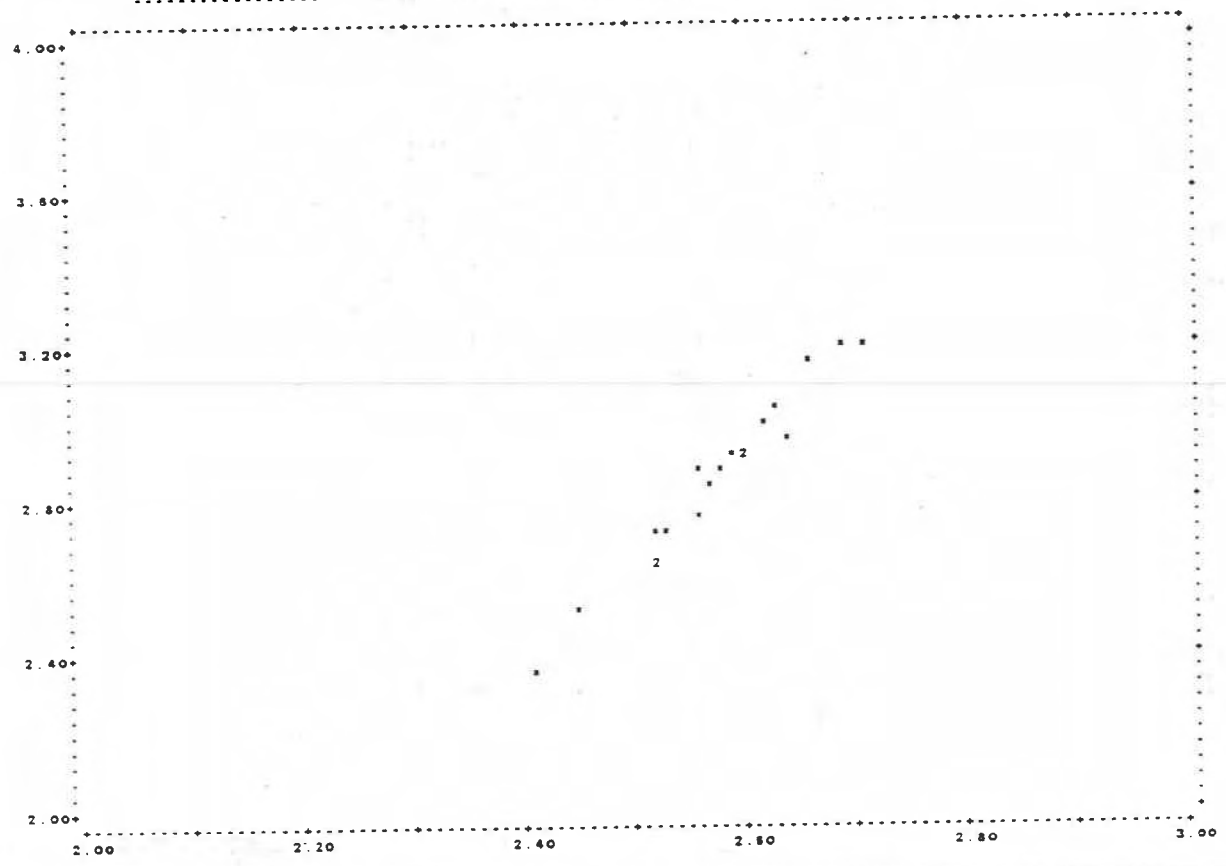
AGE-MATURITY ANALYSIS

== NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ==

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

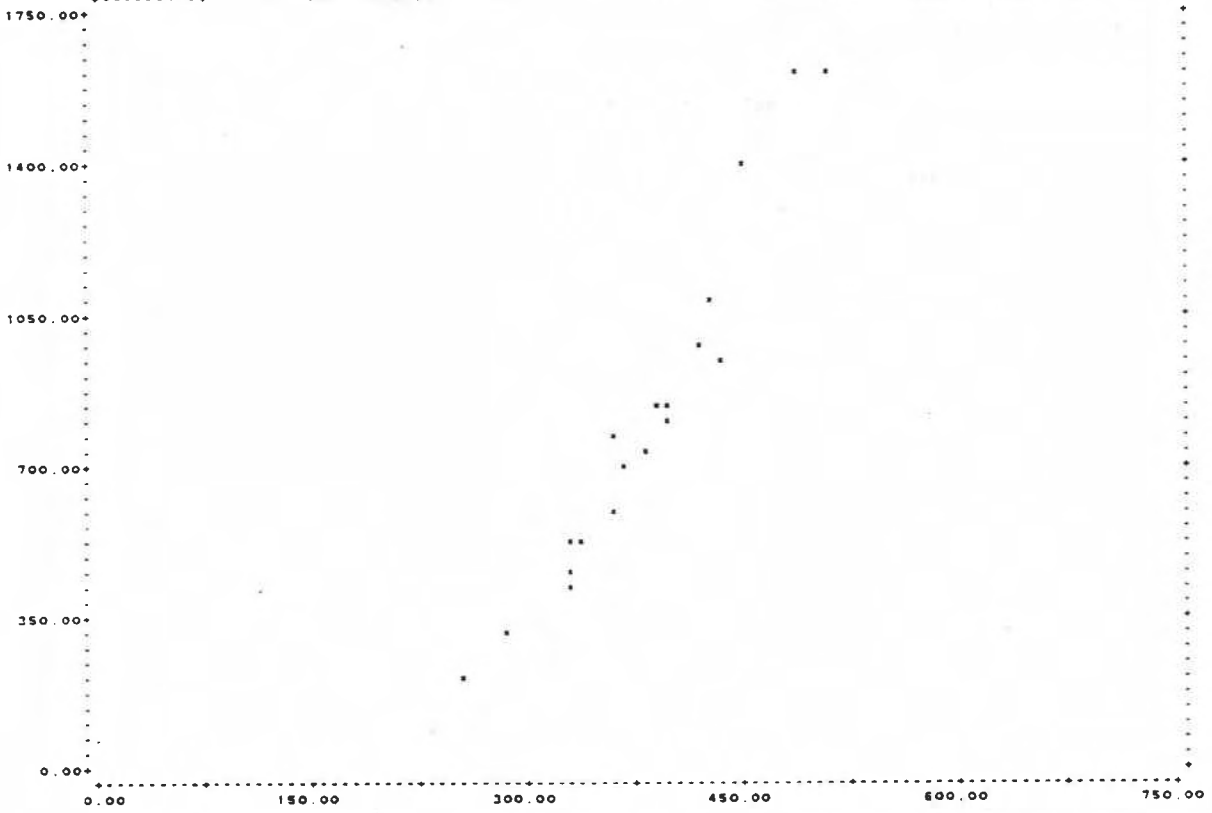
 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

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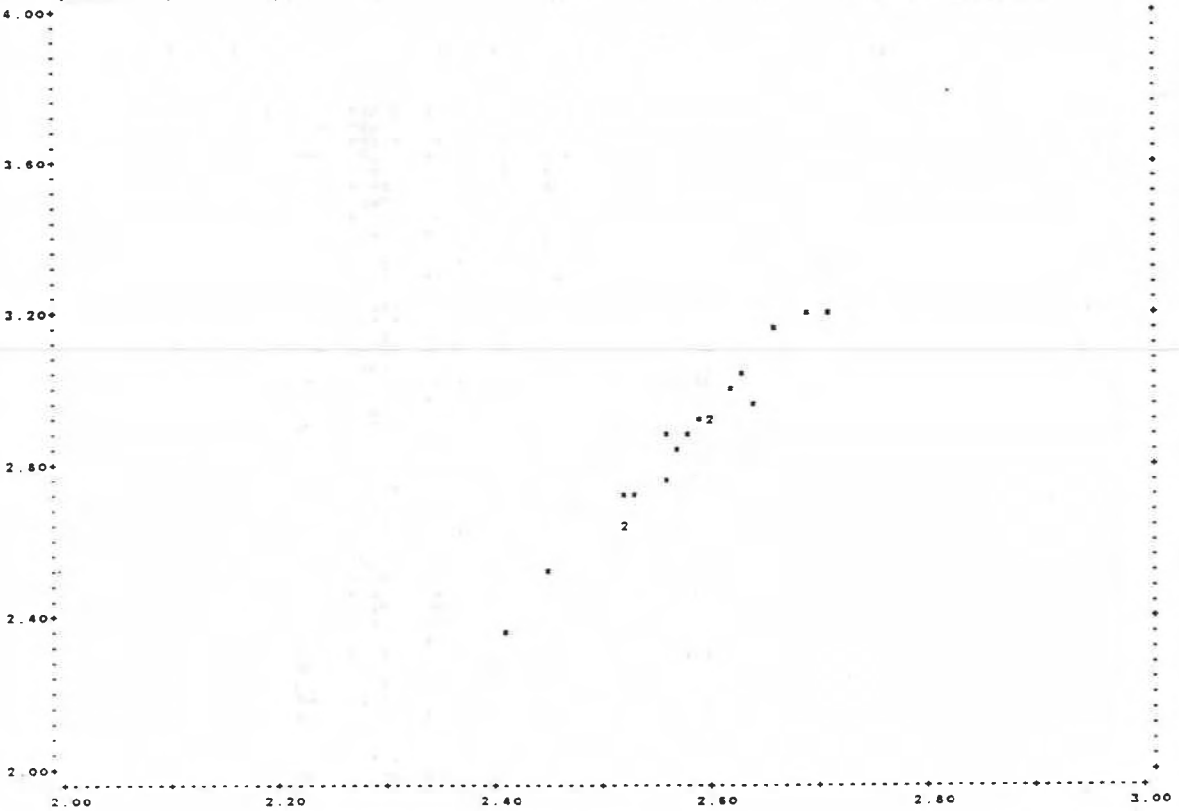
PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
A3932	LMS	368.						ES		Y11782	27 8 89	PEACN	KM02.3	0	0	
A3955	LMS	380						ES		Y11791	27 8 89	PEACN	KM02.3	0	0	
A3930	LMS	455.						ES		Y11781	27 8 89	PEACN	KM02.3	0	0	
A3941	LMS	315.						ES		Y11786	27 8 89	PEACN	KM02.3	0	0	
A3944	LMS	388.						ES		Y11787	27 8 89	PEACN	KM02.3	0	0	
A3926	LMS	435.						ES		Y11774	27 8 89	PEACN	KM02.3	0	0	
A3925	LMS	451.						ES		Y11779	27 8 89	PEACN	KM02.3	0	0	
A3937	LMS	459.						ES		Y11806	27 8 89	PEACN	KM02.3	0	0	
A3929	LMS	435.						ES		Y11801	27 8 89	PEACN	KM02.3	0	0	
A3938	LMS	408.						ES		Y11808	27 8 89	PEACN	KM02.3	0	0	
A3953	LMS	371.						ES		Y11790	27 8 89	PEACN	KM02.3	0	0	
A3938	LMS	282.						ES		Y11784	27 8 89	PEACN	KM02.3	0	0	
A3940	LMS	388.						ES		Y11785	27 8 89	PEACN	KM02.3	0	0	
A3928	LMS	458.						ES		Y11800	27 8 89	PEACN	KM02.3	0	0	
A3931	LMS	398.						ES		Y11802	27 8 89	PEACN	KM02.3	0	0	
A3959	LMS	282.						ES		Y11784	27 8 89	PEACN	KM02.3	0	0	
A3920	LMS	353.						ES		Y11777	27 8 89	PEACN	KM02.6	0	0	
A3901	LMS	397.						ES		Y11761	27 8 89	PEACN	KM02.6	0	0	
A3917	LMS	338.						ES		Y11785	27 8 89	PEACN	KM02.6	0	0	
A3907	LMS	378.						ES		Y11785	27 8 89	PEACN	KM02.6	0	0	
A3881	LMS	399.						ES		Y11723	27 8 89	PEACN	KM02.6	0	0	
A3912	LMS	460.						ES		Y11787	27 8 89	PEACN	KM02.6	0	0	
A3914	LMS	381.						ES		Y11788	27 8 89	PEACN	KM02.6	0	0	
A3911	LMS	412.						ES		Y11748	27 8 89	PEACN	KM02.6	0	0	
A3886	LMS	400.						ES		Y11741	27 8 89	PEACN	KM02.6	0	0	
A3880	LMS	349.						ES		Y11722	27 8 89	PEACN	KM02.6	0	0	
A3910	LMS	388.						ES		Y11786	27 8 89	PEACN	KM02.6	0	0	
A3883	LMS	408.						ES		Y11724	27 8 89	PEACN	KM02.6	0	0	
A3887	LMS	401.						ES		Y11571	27 8 89	PEACN	KM02.6	0	0	
A3896	LMS	373.						ES		Y11743	27 8 89	PEACN	KM02.6	0	0	
A3913	LMS	406.						ES		Y11749	27 8 89	PEACN	KM02.6	0	0	
A3876	LMS	256.						ES		Y11719	27 8 89	PEACN	KM02.6	0	0	
A3878	LMS	366.						ES		Y11721	27 8 89	PEACN	KM02.6	0	0	
A3844	LMS	369.						ES		Y11701	27 8 89	PEACN	KM02.6	0	0	
A3870	LMS	347.						ES		Y11715	27 8 89	PEACN	KM02.6	0	0	
A3871	LMS	381.						ES		Y11737	27 8 89	PEACN	KM02.6	0	0	
A3870	LMS	347.						ES		Y11715	27 8 89	PEACN	KM02.6	0	0	
A3852	LMS	350.						ES		Y11727	27 8 89	PEACN	KM02.6	0	0	
A3874	LMS	368.						ES		Y11718	27 8 89	PEACN	KM02.6	0	0	
A3845	LMS	381.						ES		Y11702	27 8 89	PEACN	KM02.6	0	0	
A3856	LMS	374.						ES		Y11729	27 8 89	PEACN	KM02.6	0	0	
A3867	LMS	366.						ES		Y11713	27 8 89	PEACN	KM02.6	0	0	
A3858	LMS	335.						ES		Y11731	27 8 89	PEACN	KM02.6	0	0	
A3865	LMS	427.						ES		Y11712	27 8 89	PEACN	KM02.6	0	0	
A3875	LMS	303.						ES		Y11712	27 8 89	PEACN	KM02.6	0	0	
A3870	LMS	347.						ES		Y11715	27 8 89	PEACN	KM02.6	0	0	
A3843	LMS	422.						ES		Y11699	27 8 89	PEACN	KM02.6	0	0	
A3849	LMS	356.						ES		Y11728	27 8 89	PEACN	KM02.6	0	0	
A3819	LMS	399.						ES		Y11687	27 8 89	PEACN	KM03.0	0	0	

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS * G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200-249	1	5.3	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250-299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300-349	1	5.3	1.42	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350-399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-449	1	5.3	1.19	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450-499	1	5.3	1.23	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500-549	2	10.5	1.34	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550-599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600-649	1	5.3	1.29	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650-699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700-749	1	5.3	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
750-799	2	10.5	1.52	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800-849	2	10.5	1.32	2	1	100.0	1.26	1	0	0.0	0.00	0	0	0.0	0.00	0
850-899	1	5.3	1.32	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900-949	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
950-999	2	10.5	1.22	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1049	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1050-1099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1149	1	5.3	1.43	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1150-1199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1249	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1250-1299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1349	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1350-1399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1400-1449	1	5.3	1.52	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1450-1499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1500-1549	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1550-1599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1600-1649	2	10.5	1.30	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	19	100.0		19	1	100.0		1	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	1.3428		MEAN =	1.2584		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000	
		STODEV =	0.1259		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000	
		CDEVAR =	9.3736		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000	
		STDERR =	0.0094		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000	
		N =	19		N =	1		N =	0		N =	0		N =	0	
MEDIAN SIZE			788 G				828 G				0 G					0 G

LENGTH - WEIGHT REGRESSION

- THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.968374968
- N = 19
- THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -4.756217 + 2.95438957 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.17530E-04 \text{ LENGTH TO THE } 2.95438957$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-4.756217	-14.248012	0.333793
SLOPE	2.954390	22.819384	0.129491

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.578678

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.865286

7) SUM OF X SQUARED = 126.2490

8) SUM OF Y SQUARED = 155.9340

9) SUM OF XY = 140.1393

SUM OF SMALL X SQUARED = 0.103043

SUM OF SMALL Y SQUARED = 0.928772

SUM OF SMALL XY = 0.304413

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SO	MEAN SO	F
REGRESS	1	0.89939816	0.89939816	520.54199219
ERROR	17	0.02937281	0.00172781	
TOTAL	18	0.9287720		

J1082 LNS	464.	ES	Y 4877	4	6	89	PEACJ	KM14.3	0	0
J 335 LNS	435.	ES	Y 5528	2	6	89	PEACJ	KM14.3	0	0
J 354 LNS	483.	ES	Y 5527	2	6	89	PEACJ	KM14.3	0	0
J1073 LNS	407.	ES	Y 4884	4	6	89	PEACJ	KM14.3	0	0
J 248 LNS	430.	ES	Y 5421	1	6	89	PEACJ	KM14.3	0	0
J 248 LNS	448.	ES	Y 5424	1	6	89	PEACJ	KM14.3	0	0
J 242 LNS	488.	ES	Y 5418	1	6	89	PEACJ	KM14.3	0	0
J 195 LNS	395.	ES	Y 4827	4	6	89	PEACJ	KM14.3	0	0
J 248 LNS	411.	ES	Y 5422	1	6	89	PEACJ	KM14.3	0	0
J 531 LNS	421.	ES	Y 4338	3	6	89	PEACJ	KM14.8	0	0
J1413 LNS	422.	ES	Y 4839	7	6	89	PEACJ	KM15.0	0	0

====NOTE==== SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)====NOTE====

SPECIES = LNS

LOCATION= PEACJ SITE(S)=KMO0.4 KMO1.2 KMO2.5 KMO2.8 KMO3.1 KMO3.5 KMO3.6 KMO3.8 KMO4.8 KMO4.9
KMO5.2 KMO6.6 KM10.2 KM10.5 KM11.0 KM12.2 KM12.7 KM12.8 KM13.7 KM14.3
KM14.8 KM15.0

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 172

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 219	1	0.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	1	0.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	2	1.1	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	2	1.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	4	2.2	1.42	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	4	2.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	11	6.1	1.27	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	10	5.8	1.48	2	1	20.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	20	11.1	1.34	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	24	13.3	1.33	3	1	20.0	1.28	1	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	23	12.8	1.32	1	3	80.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	36	20.0	1.28	3	0	0.0	0.00	0	1	33.3	0.00	0	0	0.0	0.00	0
440- 459	21	11.7	1.52	1	0	0.0	0.00	0	2	66.7	0.00	0	0	0.0	0.00	0
460- 479	13	7.2	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	7	3.9	1.42	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	1	0.6	1.12	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	180	100.0	-	18	5	100.0	-	1	3	100.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	1.3428		MEAN =	1.2594			MEAN =	0.0000			MEAN =	0.0000		
		STDDEV =	0.1259		STDDEV =	0.0000			STDDEV =	0.0000			STDDEV =	0.0000		
		COEVAR =	9.3736		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0094		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	18		N =	1			N =	0			N =	0		
MEDIAN SIZE			410 MM			404 MM				446 MM					0 MM	

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

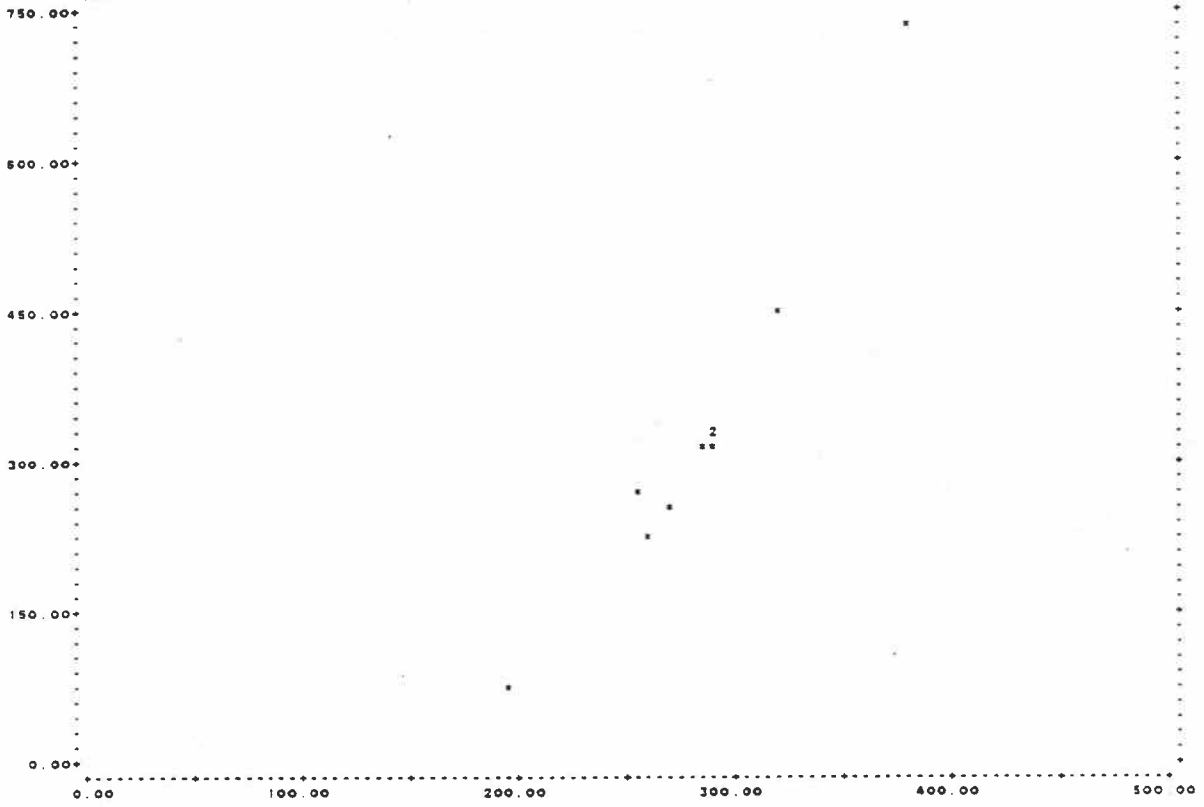
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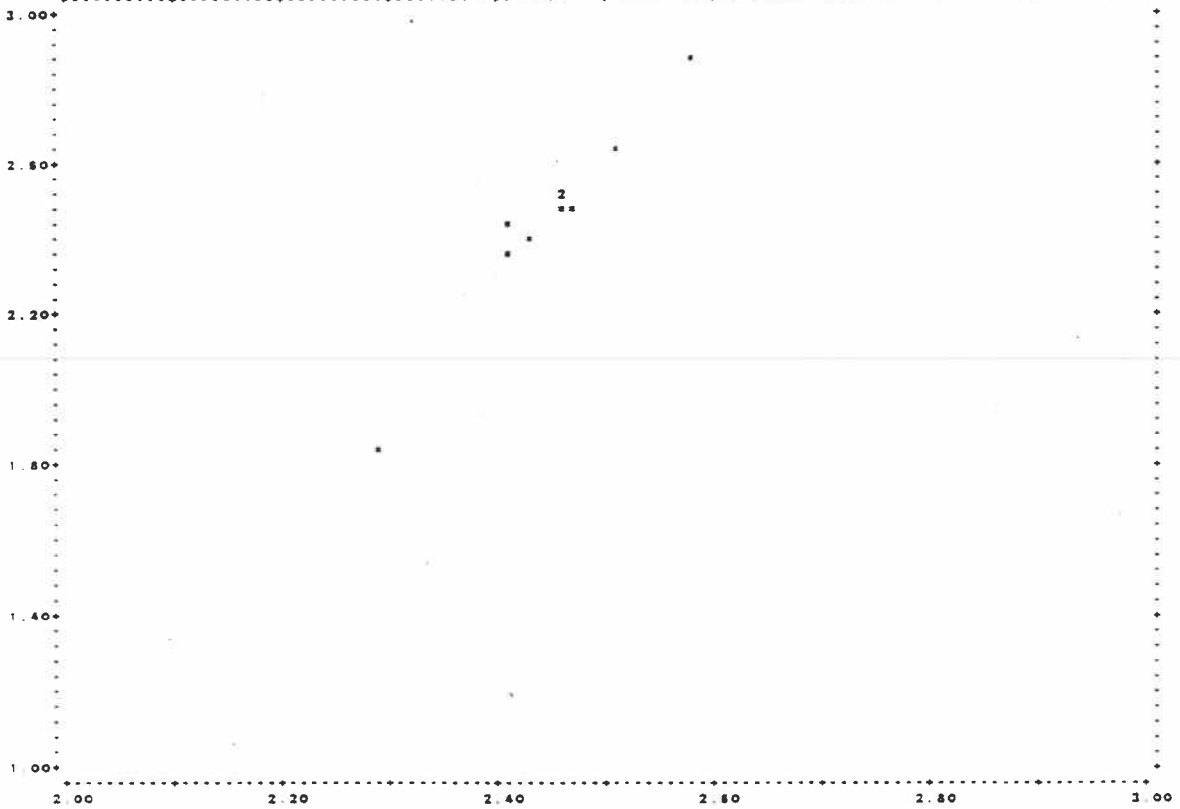
PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO	SP	LENGTH (MM)	WEIGHT (G)	SEX	GONAD MAT. WT(G)	AGE	AGE METH	CAPT MESH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
J	226	LNS	341	508				ES		Y 5285	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	232	LNS	256	224				ES		Y 5271	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	228	LNS	329	425				ES		Y 5267	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	229	LNS	381	750				ES		Y 5288	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	231	LNS	380	800				ES		Y 5270	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	230	LNS	284	325				ES		Y 5289	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	222	LNS	452	1400				ES		Y 5261	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	225	LNS	391	825				ES		Y 5264	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	227	LNS	332	450				ES		Y 5266	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	223	LNS	401	880				ES		Y 5262	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	219	LNS	425	1100				ES		Y 5260	99 6 89	PEACJ	KM00.4	0	0	(29-05)
J	224	LNS	421	975				ES		Y 5263	99 6 89	PEACJ	KM00.4	0	0	(29-05)
H	408	LNS	318					ES		Y 8344	27 6 89	PEACJ	KM01.2	0	0	
H	403	LNS	390					ES		Y 8341	27 6 89	PEACJ	KM01.2	0	0	
H	404	LNS	344					ES		Y 8342	27 6 89	PEACJ	KM01.2	0	0	
H	407	LNS	345					ES		Y 8345	27 6 89	PEACJ	KM01.2	0	0	
H	405	LNS	391					ES		Y 8343	27 6 89	PEACJ	KM01.2	0	0	
H	401	LNS	362					ES		Y 8339	27 6 89	PEACJ	KM01.2	0	0	
H	400	LNS	390					ES		Y 8338	27 6 89	PEACJ	KM01.2	0	0	
H	332	LNS	408					ES		Y 8273	26 6 89	PEACJ	KM02.5	0	0	
H	334	LNS	435					ES		Y 8275	26 6 89	PEACJ	KM02.5	0	0	
H	336	LNS	328					ES		Y 8277	26 6 89	PEACJ	KM02.5	0	0	
H	335	LNS	384					ES		Y 8278	26 6 89	PEACJ	KM02.5	0	0	
H	333	LNS	389					ES		Y 8274	26 6 89	PEACJ	KM02.5	0	0	
J	211	LNS	512	1600				ES		Y 5256	99 6 89	PEACJ	KM02.6	0	0	(29-05)
J	202	LNS	219					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
J	192	LNS	443		17			ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
J	201	LNS	410		7			ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
J	209	LNS	486	1625				ES		Y 5251	99 6 89	PEACJ	KM02.6	0	0	(28-05)
H	341	LNS	246					ES		Y 8282	26 6 89	PEACJ	KM02.6	0	0	
H	342	LNS	436					ES		Y 8283	26 6 89	PEACJ	KM02.6	0	0	
J	213	LNS	399	800	9			ES		Y 5254	99 6 89	PEACJ	KM02.6	0	0	(29-05)
J	188	LNS	353					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
J	185	LNS	439					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
H	347	LNS	395					ES		Y 8288	26 6 89	PEACJ	KM02.6	0	0	
H	382	LNS	385					ES		Y 8304	26 6 89	PEACJ	KM02.6	0	0	
J	195	LNS	311					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
J	212	LNS	359	775				ES		Y 5253	99 6 89	PEACJ	KM02.6	0	0	(29-05)
J	189	LNS	346					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
H	354	LNS	385					ES		Y 8295	26 6 89	PEACJ	KM02.6	0	0	
H	351	LNS	460					ES		Y 8292	26 6 89	PEACJ	KM02.6	0	0	
H	355	LNS	452					ES		Y 8296	26 6 89	PEACJ	KM02.6	0	0	
H	348	LNS	445					ES		Y 8289	26 6 89	PEACJ	KM02.6	0	0	
H	383	LNS	375					ES		Y 8302	26 6 89	PEACJ	KM02.6	0	0	
J	194	LNS	385					ES			99 6 89	PEACJ	KM02.6	0	0	(28-05)
H	344	LNS	394					ES		Y 8286	26 6 89	PEACJ	KM02.6	0	0	
H	360	LNS	379					ES		Y 8301	26 6 89	PEACJ	KM02.6	0	0	
J	210	LNS	438	950				ES		Y 5252	99 6 89	PEACJ	KM02.6	0	0	(29-05)
H	365	LNS	301					ES			26 6 89	PEACJ	KM02.6	0	0	

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
50- 99	1	10.0	0.98	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
100- 149	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
150- 199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 249	1	10.0	1.31	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250- 299	2	20.0	1.45	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 349	4	40.0	1.33	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 449	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450- 499	1	10.0	1.37	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 549	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550- 599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 649	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650- 699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 749	1	10.0	1.38	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	10	100.0	-	10	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.3238 STDEY = 0.1530 COEVAR = 11.5575 STDERR = 0.0381 N = 10				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	313 G				0 G				0 G				0 G			

LENGTH - WEIGHT REGRESSION

- THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.970538053
- N = 10
- THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -5.940979 + 3.43332291 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.11458E-05 \text{ LENGTH TO THE } 3.43332291$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-5.940979	-11.479182	0.517544
SLOPE	3.433323	16.233282	0.211499

5) LOG₁₀(LENGTH) MEANS = 2.448004

6) LOG₁₀(WEIGHT) MEANS = 2.458955

7) SUM OF X SQUARED = 59.8795

8) SUM OF Y SQUARED = 60.9736

9) SUM OF XY = 60.2890

SUM OF SMALL X SQUARED = 0.050003

SUM OF SMALL Y SQUARED = 0.607315

SUM OF SMALL XY = 0.171682

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SO	MEAN SO	F
REGRESS	1	0.58942127	0.58942127	263.51977539
ERROR	8	0.01789379	0.00223672	
TOTAL	9	0.6073151		

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX	COND MAT.	AGE WT (G)	AGE METH	CAPT METH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
C 446	LNS	234.						ES		12 10 89	HALFO	KM01.2	0	0	
C 447	LNS	296.						ES		12 10 89	HALFO	KM01.2	0	0	
C 450	LNS	271.						ES		12 10 89	HALFO	KM01.2	0	0	
C 449	LNS	272.						ES		12 10 89	HALFO	KM01.2	0	0	
C 448	LNS	263.						ES		12 10 89	HALFO	KM01.2	0	0	
C 693	LNS	194.	70.					ES		14 10 89	HALFO	KM02.1	0	0	
C 692	LNS	256.	263.					ES	Y14189	14 10 89	HALFO	KM02.1	0	0	
C 691	LNS	320.	450.					ES	Y14188	14 10 89	HALFO	KM02.1	0	0	
C 628	LNS	288.	325.				SC	ES	Y14114	14 10 89	HALFO	KM03.5	0	0	
C 616	LNS	286.	310.					ES	Y14105	14 10 89	HALFO	KM03.5	0	0	
C 630	LNS	292.	315.					ES		14 10 89	HALFO	KM03.5	0	0	
C 821	LNS	258.	225.					ES	Y14109	14 10 89	HALFO	KM03.5	0	0	
C 817	LNS	288.	330.					ES	Y14108	14 10 89	HALFO	KM03.5	0	0	
C 825	LNS	288.	255.					ES	Y14113	14 10 89	HALFO	KM03.5	0	0	
C 822	LNS	379.	740.					ES	Y14110	14 10 89	HALFO	KM03.5	0	0	
C 490	LNS	376.						ES	Y14012	13 10 89	HALFO	KM04.2	0	0	
C 501	LNS	248.						ES		13 10 89	HALFO	KM04.2	0	0	
C 503	LNS	311.						ES	Y14021	13 10 89	HALFO	KM04.2	0	0	

=====
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***
 =====

SPECIES = LNS

LOCATION= HALFO SITE(S)=KM01.2 KM02.1 KM03.5 KM04.2

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 18

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
180 - 199	1	5.6	0.96	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200 - 219	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220 - 239	1	5.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240 - 259	3	16.7	1.44	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260 - 279	4	22.2	1.32	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280 - 299	5	27.8	1.33	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300 - 319	1	5.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320 - 339	1	5.6	1.37	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340 - 359	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360 - 379	2	11.1	1.36	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	18	100.0	-	10	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	1.3238		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDDEV =	0.1830		STDDEV =	0.0000			STDDEV =	0.0000			STDDEV =	0.0000		
		COEVAR =	11.5575		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0361		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	10		N =	0			N =	0			N =	0		
MEDIAN SIZE			281 MM				0 MM				0 MM					0 MM

***** NOTE *****
 ***** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED) ***** NOTE *****

SPECIES = LNS
 LOCATION = HALFJ SITE(S) = KM00.5 KM01.0 KM01.5 KM02.0 KM02.5

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 42

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 219	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	2	4.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	4	9.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	2	4.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	10	22.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	12	28.5	0.00	0	2	100.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	3	6.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	4	9.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	1	2.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	44	100.0	-	0	2	100.0	-	0	0	0.0	-	0	0	0.0	-	0
COND FACTORS SUMMARY	MEAN =	0.0000	STDDEV =	0.0000	MEAN =	0.0000	STDDEV =	0.0000	MEAN =	0.0000	STDDEV =	0.0000	MEAN =	0.0000	STDDEV =	0.0000
	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000	COEVAR =	0.0000
	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000	STDERR =	0.0000
	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0	N =	0
MEDIAN SIZE	388 MM				411 MM				0 MM				0 MM			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

== NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ==

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX	GONAD MAT. WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H	2	LNS	454.					ES		Y 8001	22 6 89	HALFJ	KM00.5	0	0	
H	7	LNS	398.					ES		Y 8006	22 6 89	HALFJ	KM00.5	0	0	
H	3	LNS	413.					ES		Y 8002	22 6 89	HALFJ	KM00.5	0	0	
H	17	LNS	312.					ES		Y 8018	22 6 89	HALFJ	KM00.5	0	0	
H	22	LNS	403.					ES		Y 8021	22 6 89	HALFJ	KM00.5	0	0	
H	5	LNS	450.					ES		Y 8004	22 6 89	HALFJ	KM00.5	0	0	
H	21	LNS	442.					ES		Y 8020	22 6 89	HALFJ	KM00.5	0	0	
H	14	LNS	418.					ES		Y 8019	22 6 89	HALFJ	KM00.5	0	0	
H	19	LNS	418.					ES		Y 8013	22 6 89	HALFJ	KM00.5	0	0	
H	18	LNS	338.					ES		Y 8012	22 6 89	HALFJ	KM00.5	0	0	
H	15	LNS	338.					ES		Y 8014	22 6 89	HALFJ	KM00.5	0	0	
H	6	LNS	430.					ES		Y 8005	22 6 89	HALFJ	KM00.5	0	0	
H	10	LNS	378.					ES		Y 8008	22 6 89	HALFJ	KM00.5	0	0	
H	1	LNS	348.					ES		Y 8000	22 6 89	HALFJ	KM00.5	0	0	
H	8	LNS	400.					ES		Y 8007	22 6 89	HALFJ	KM00.5	0	0	
H	84	LNS	410.					ES		Y 8068	23 6 89	HALFJ	KM01.0	0	0	
H	78	LNS	400.					ES		Y 8065	23 6 89	HALFJ	KM01.5	0	0	
H	82	LNS	380.					ES		Y 8073	23 6 89	HALFJ	KM01.5	0	0	
H	70	LNS	395.					ES		Y 8069	23 6 89	HALFJ	KM01.5	0	0	
H	79	LNS	385.					ES		Y 8071	23 6 89	HALFJ	KM01.5	0	0	
H	74	LNS	395.					ES		Y 8063	23 6 89	HALFJ	KM01.5	0	0	
H	73	LNS	355.					ES		Y 8062	23 6 89	HALFJ	KM01.5	0	0	
H	75	LNS	383.					ES		Y 8064	23 6 89	HALFJ	KM01.5	0	0	
H	55	LNS	430.					ES		Y 8044	23 6 89	HALFJ	KM02.0	0	0	
H	85	LNS	390.					ES		Y 8056	23 6 89	HALFJ	KM02.0	0	0	
H	54	LNS	425.					ES		Y 8042	23 6 89	HALFJ	KM02.0	0	0	
H	52	LNS	380.					ES		Y 8053	23 6 89	HALFJ	KM02.0	0	0	
H	81	LNS	405.					ES		Y 8051	23 6 89	HALFJ	KM02.0	0	0	
H	56	LNS	405.					ES		Y 8045	23 6 89	HALFJ	KM02.0	0	0	
H	53	LNS	352.					ES		Y 8043	23 6 89	HALFJ	KM02.0	0	0	
H	84	LNS	409.					ES		Y 8055	23 6 89	HALFJ	KM02.0	0	0	
H	88	LNS	385.					ES		Y 8057	23 6 89	HALFJ	KM02.0	0	0	
H	58	LNS	340.					ES		Y 8048	23 6 89	HALFJ	KM02.0	0	0	
H	25	LNS	400.					ES		Y 8024	23 6 89	HALFJ	KM02.5	0	0	
H	31	LNS	472.					ES		Y 8028	23 6 89	HALFJ	KM02.5	0	0	
H	28	LNS	400.					ES		Y 8025	23 6 89	HALFJ	KM02.5	0	0	
H	45	LNS	210.					ES			23 6 89	HALFJ	KM02.5	0	0	
H	47	LNS	410.					ES		Y 8038	23 6 89	HALFJ	KM02.5	0	0	
H	43	LNS	380.					ES		Y 8037	23 6 89	HALFJ	KM02.5	0	0	
H	30	LNS	448.					ES		Y 8027	23 6 89	HALFJ	KM02.5	0	0	
H	46	LNS	235.					ES			23 6 89	HALFJ	KM02.5	0	0	
H	50	LNS	340.					ES		Y 8040	23 6 89	HALFJ	KM02.5	0	0	
H	49	LNS	230.					ES			23 6 89	HALFJ	KM02.5	0	0	
H	52	LNS	249.					ES			23 6 89	HALFJ	KM02.5	0	0	

PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE METH	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H 395	LKC	280						ES			28 6 89	PEACJ	KM02.6	0	0	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)**NOTE**

SPECIES = LKC
 LOCATION = PEACJ SITE(S) = KM02.6

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 1

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N
280 - 289	1	100.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	1	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000	
		STDDEV =	0.0000		STDDEV =	0.0000		STDDEV =	0.0000		STDDEV =	0.0000		STDDEV =	0.0000	
		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000	
		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000	
		N =	0		N =	0		N =	0		N =	0		N =	0	
MEDIAN SIZE		281 MM			0 MM				0 MM			0 MM				

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = LING
 LOCATION = PEACO SITE(S) = KMO2.6

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 3

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
380- 379	1	33.3	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 389	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	2	66.7	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0	-	2	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 0.8888 STDEY = 0.0118 COEVAR = 1.7783 STDERR = 0.0088 N = 2				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			426 MM				0 MM				0 MM				0 MM	

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
300- 349	1	50.0	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 449	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450- 499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 549	1	50.0	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	2	100.0	-	2	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 0.8888 STDEY = 0.0118 COEVAR = 1.7783 STDERR = 0.0088 N = 2				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			501 G				0 G				0 G				0 G	

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 2) *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX- MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
M 98	LING	435	542			0T	ES				28 10 88	PEACD		1	0	MERCURY ANALYSIS
M 87	LING	370	342			0T	ES				26 10 88	PEACD		1	0	MERCURY ANALYSIS
02811	LING	420					ES				24 10 88	PEACD	KM02.6	1	0	

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP	LENGTH (MM)	WEIGHT (G)	SEX- MAT.	GONAD WT(G)	AGE METH	AGE METH (CM)	CAPT	MESH	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
96	LING	435	542.			0T	ES				25 10 89	PEACD		1	0	MERCURY ANALYSIS
97	LING	370	342.			0T	ES				25 10 89	PEACD		1	0	MERCURY ANALYSIS
02811	LING	420					ES				24 10 89	PEACD	KMO2.6	1	0	

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE METH	AGE METH (CM)	CAPT METH	MESH (CM)	TAG NO.	DATE DAY NO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
A3958	LING	225						ES			27 8 89	PEACH	KMO2.3	0	0	
A3904	LING	549						ES		Y11763	27 8 89	PEACH	KMO2.6	0	0	
A3915	LING	929						ES		Y11775	27 8 89	PEACH	KMO2.6	0	0	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED) ***NOTE***

SPECIES = LING
 LOCATION = PEACH SITE(S) = KMO2.3 KMO2.6

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 1

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
220- 239	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000	
		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000		STODEV =	0.0000	
		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000	
		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000	
		N =	0		N =	0		N =	0		N =	0		N =	0	
MEDIAN SIZE			531 MM			0 MM			0 MM			0 MM			0 MM	

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N
350-399	2	66.7	0.72	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-449	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450-499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500-549	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550-599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600-649	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650-699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700-749	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
750-799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800-849	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
850-899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900-949	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
950-999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1049	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1050-1099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1149	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1150-1199	1	33.3	0.84	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0		3	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	0.8958		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDDEV =	0.0797		STDDEV =	0.0000			STDDEV =	0.0000			STDDEV =	0.0000		
		COEVAR =	11.4583		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0480		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	3		N =	0			N =	0			N =	0		
MEDIAN SIZE			388 G				0 G				0 G					0 G

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 3) *****

AGE-GROWTH ANALYSIS

***** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE *****

AGE-MATURITY ANALYSIS

***** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE *****

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX- MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H 378	LING	570	1182					ES		Y 8318	26 6 89	PEACJ	KM02.6	0	0	
H 379	LING	385	378					ES		Y 8319	28 6 89	PEACJ	KM02.6	0	0	
J 181	LING	355	352					ES			99 6 89	PEACJ	KM03.1	0	0	(28-05)

*****NOTE*** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE****

SPECIES = LING
 LOCATION= PEACJ SITE(S)=KM02.6 KM03.1

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 3

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N
340- 359	1	33.3	0.79	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	1	33.3	0.66	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
560- 579	1	33.3	0.84	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0		3	0	0.0		0	0	0.0		0	0	0.0		0
COND FACTORS SUMMARY			MEAN = 0.8956				MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000	
			STDDEV = 0.0797				STDDEV = 0.0000				STDDEV = 0.0000				STDDEV = 0.0000	
			COEVAR = 11.4563				COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000	
			STDERR = 0.0460				STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000	
			N = 3				N = 0				N = 0				N = 0	
MEDIAN SIZE			391 MM				0 MM				0 MM				0 MM	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = LINC

LOCATION = HALPJ SITE(S) = KMO1.0 KMO2.5

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 4

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
380-399	2	50.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420-439	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440-459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460-479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480-499	2	50.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	4	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND FACTORS SUMMARY			MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000	
			STDEEV = 0.0000				STDEEV = 0.0000				STDEEV = 0.0000				STDEEV = 0.0000	
			COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000	
			STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000	
			N = 0				N = 0				N = 0				N = 0	
MEDIAN SIZE			481 MM				0 MM				0 MM				0 MM	

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

*** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ***

AGE-MATURITY ANALYSIS

*** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ***

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
250- 299	1	50.0	1.20	1	0	0.0	0.00	0	1	50.0	1.20	1	0	0.0	0.00	0
300- 349	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	1	50.0	1.20	1	0	0.0	0.00	0	1	50.0	1.20	1	0	0.0	0.00	0
TOTALS	2	100.0	-	2	0	0.0	-	0	2	100.0	-	2	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.1990 STDEV = 0.0056 COEVAR = 0.4679 STDERR = 0.0021 N = 2				MEAN = 0.0000 STDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 1.1990 STDEV = 0.0056 COEVAR = 0.4679 STDERR = 0.0040 N = 2				MEAN = 0.0000 STDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	351 G				0 G				351 G				0 G			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 2). *****

AGE-GROWTH ANALYSIS

 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H	85	LING	494.					ES		Y 8088	23 8 89	HALFJ	KM01.0	0	0	
H	86	LING	390.					ES		Y 8075	23 8 89	HALFJ	KM01.0	0	0	
H	51	LING	390.					ES		Y 8041	23 8 89	HALFJ	KM02.5	0	0	
H	36	LING	440.					ES		Y 8032	23 8 89	HALFJ	KM02.5	0	0	

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PRINT-OUT OF RAW DATA TO BE ANALYSED

AMPLE NO	SP	LENGTH (MM)	WEIGHT (G)	SEX MAT	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
M	3	K	315		376	16		ES			10 10 89	PEACO		1	0	MERCURY ANALYSIS
M	4	K	282		268	16		ES			10 10 89	PEACO		1	0	MERCURY ANALYSIS
	131	K	284					ES		Y13642	7 10 89	PEACO	KM13.3	0	0	
	151	K	293					ES		Y13645	7 10 89	PEACO	KM13.3	0	0	
	150	K	283					ES		Y13644	7 10 89	PEACO	KM13.3	0	0	
	243	K	305					ES		Y13652	8 10 89	PEACO	KM13.7	0	0	
0	946	K	284					ES		Y13729	11 10 89	PEACO	KM14.3	0	0	

NOTE: SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED) NOTE

SPECIES = K

LOCATION = PEACO SITE(S) = KM13.3 KM13.7 KM14.3

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 5

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
280- 289	5	71.4	1.20	1	0	0.0	0.00	0	1	50.0	1.20	1	0	0.0	0.00	0
300- 319	2	28.6	1.20	1	0	0.0	0.00	0	1	50.0	1.20	1	0	0.0	0.00	0
TOTALS	7	100.0	-	2	0	0.0	-	0	2	100.0	-	2	0	0.0	-	0
COND FACTORS SUMMARY	MEAN = 1.1990 STDDEV = 0.0056 COEVAR = 0.4679 STDERR = 0.0021 N = 2				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 1.1990 STDDEV = 0.0056 COEVAR = 0.4679 STDERR = 0.0040 N = 2				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	294 MM				0 MM				301 MM				0 MM			

AGE-GROWTH ANALYSIS

 * MALES ONLY *

	AGE-	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER

* LENGTH (MM) *																		
* MAX					295.0													
* MEAN+CI					295.0													
* MEAN-CI																		
* MIN					295.0													
* NUMBER					1													
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* WEIGHT (G) *																		
* MAX					348.0													
* MEAN+CI					348.0													
* MEAN-CI																		
* MIN					348.0													
* NUMBER					1													
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* CONDITION *																		
* MAX	0.000	0.000	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* MEAN	0.000	0.000	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* MIN	0.000	0.000	0.000	1.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* NUMBER				1														
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NO FEMALES IN AGED SAMPLE

NO SEX INDETERMINABLE IN AGED SAMPLE

AGE-MATURITY ANALYSIS

	AGE-	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER	TOTAL

* SEX/																			
* MAT.																			
* 99																			0
* 1																			0
* 2																			0
* 3																			0
* 4																			1
* 5																			0
* 6																			0
* 7																			0
* 8																			0
* 9																			0
* 10																			0
* 11																			0
* 12																			0
* 13																			0
* 14																			0
* 15																			0
* 16																			0
* 17																			0
* 18																			0
* 19																			0
* 20																			0
* TOTAL					1														1

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.804597020
- 2) N = 13
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -4.246707 + 2.75289536 \text{ LOG}_{10}(\text{LENGTH})$
 OR $\text{WEIGHT} = 0.56682E-04 \text{ LENGTH TO THE } 2.75289536$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-4.246707	-4.239119	1.001790
SLOPE	2.752895	6.730076	0.409044

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.448978

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.495074

7) SUM OF X SQUARED = 77.9794

8) SUM OF Y SQUARED = 81.0046

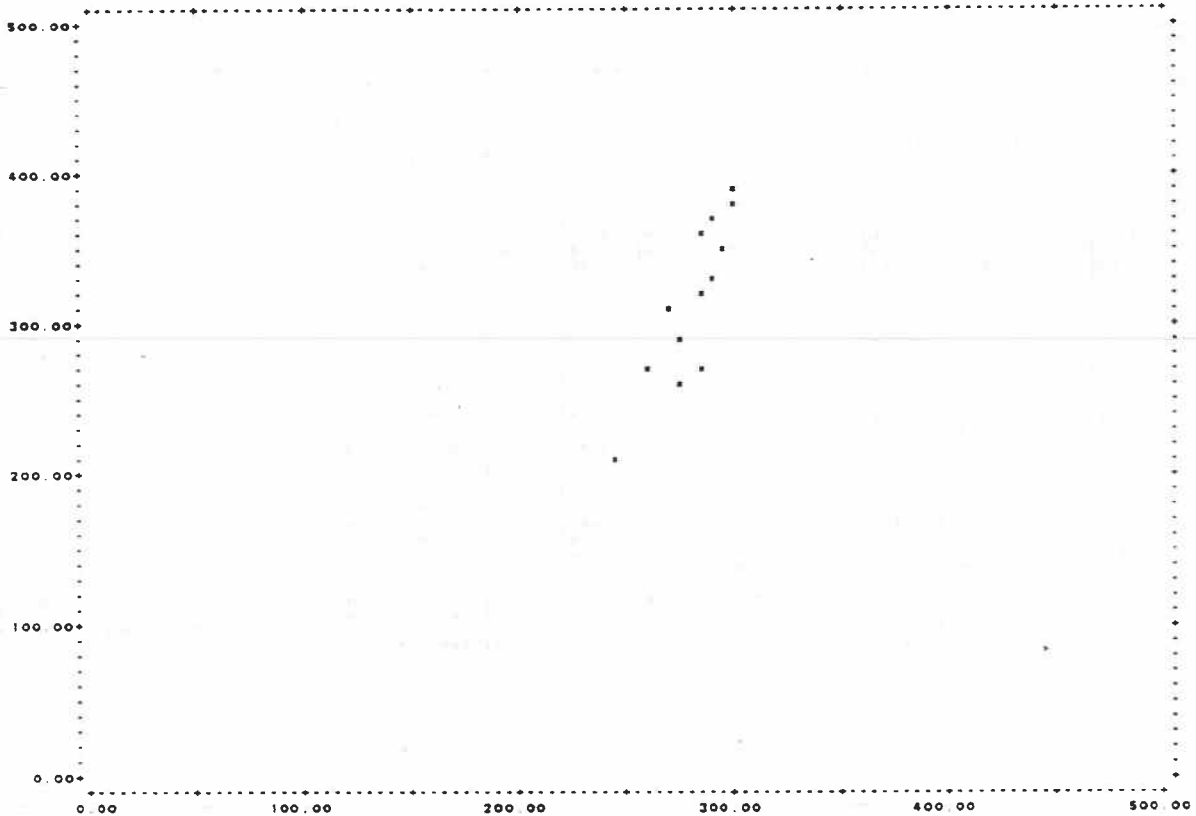
9) SUM OF XY = 79.4588

SUM OF SMALL X SQUARED = 0.007904
 SUM OF SMALL Y SQUARED = 0.074448
 SUM OF SMALL XY = 0.021758

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ	F
REGRESS	1	0.05990034	0.05990034	45.29389954
ERROR	11	0.01454729	0.00132248	
TOTAL	12	0.0744476		

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = K

LOCATION= PEACH SITE(S)=KM08.1 KM08.6 KM10.7 KM10.8 KM10.9 KM14.0 KM14.3 KM14.4 KM14.8

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 21

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
240- 259	5	21.7	1.48	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	5	21.7	1.44	4	0	0.0	0.00	0	1	100.0	1.55	1	0	0.0	0.00	0
280- 299	10	43.5	1.40	6	1	100.0	1.28	1	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	3	13.0	1.41	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	23	100.0	-	13	1	100.0	-	1	1	100.0	-	1	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.4108 STDEY = 0.1120 COEVAR = 7.9390 STDERR = 0.0234 N = 13				MEAN = 1.3555 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 1.5504 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	283 MM				291 MM				271 MM				0 MM			

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 249	1	7.7	1.48	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250- 299	4	30.8	1.35	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 349	4	30.8	1.42	4	1	100.0	1.28	1	1	100.0	1.55	1	0	0.0	0.00	0
350- 399	4	30.8	1.47	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	13	100.0	-	13	1	100.0	-	1	1	100.0	-	1	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.4108 STDEY = 0.1120 COEVAR = 7.9390 STDERR = 0.0234 N = 13				MEAN = 1.3555 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 1.5504 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	319 G				328 G				328 G				0 G			

AGE-GROWTH ANALYSIS

* MALES ONLY *

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER
LENGTH (MM)																	
MAX				270.0													
MEAN+CI				270.0													
MEAN				270.0													
MEAN-CI				270.0													
MIN				270.0													
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT (G)																	
MAX				212.0													
MEAN+CI				212.0													
MEAN				212.0													
MEAN-CI				212.0													
MIN				212.0													
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONDITION																	
MAX	0.000	0.000	0.000	1.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	1.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	1.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AGE-GROWTH ANALYSIS

* FEMALES ONLY *

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER
LENGTH (MM)																	
MAX				245.0													
MEAN+CI				245.0													
MEAN				245.0													
MEAN-CI				245.0													
MIN				245.0													
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT (G)																	
MAX				188.0													
MEAN+CI				188.0													
MEAN				188.0													
MEAN-CI				188.0													
MIN				188.0													
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONDITION																	
MAX	0.000	0.000	0.000	1.273	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	1.273	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	1.273	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER				1													
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NO SEX INDETERMINABLE IN AGED SAMPLE

AGE-MATURITY ANALYSIS

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER	TOTAL
SEX/MAT																		
99																		0
1				1														1
2																		0
3																		0
4																		0
5																		0
6																		0
7																		0
8																		0
9																		0
10																		0
11																		0
12																		0
13																		0
14																		0
15																		0
16				1														1
17																		0
18																		0
19																		0
20																		0
TOTAL				2														2

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
 NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
 NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA

PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX-MAT.	GONAD WT (G)	AGE	AGE METH	CAPT METH	MESH	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
A3213	K	260	270.							Y10736	24 8 89	PEACH	KM08	1	0	
A3227	K	272	312.	16						ES	24 8 89	PEACH	KM08	1	0	ST-5 (3 HEMI 2 UNID
A3560	K	266								Y10867	25 8 89	PEACH	KM08	6	0	
A2908	K	288								Y10515	23 8 89	PEACH	KM10	7	0	
A2138	K	302.	382.							Y 9951	18 8 89	PEACH	KM10	7	0	
A3405	K	250.								Y10666	25 8 89	PEACH	KM10	7	0	
A2138	K	302.	382.			3	SC			Y 9950	18 8 89	PEACH	KM10	7	0	
A2383	K	257								Y10138	19 8 89	PEACH	KM10	8	0	
A2384	K	305								Y10182	19 8 89	PEACH	KM10	8	0	
A3982	K	294.								Y10495	25 8 89	PEACH	KM10	8	0	(HP)
A 40	K	288								Y 8814	9 8 89	PEACH	KM14	0	0	
A 44	K	245.								Y 8818	9 8 89	PEACH	KM14	0	0	
A 46	K	288.								Y 8817	9 8 89	PEACH	KM14	0	0	
A 720	K	283.	384.							Y 8988	13 8 89	PEACH	KM14	3	0	
A2778	K	246.	208.							Y10402	21 8 89	PEACH	KM14	4	0	
A2779	K	288.	328.							Y10404	21 8 89	PEACH	KM14	4	0	
A2797	K	295.	348.	4		3	SC			ES	21 8 89	PEACH	KM14	4	1	ST-5 (CHIR-5)
A2816	K	258								Y10428	21 8 89	PEACH	KM14	4	0	
A2793	K	277	294							ES	21 8 89	PEACH	KM14	4	0	
A2788	K	282	388.							Y10415	21 8 89	PEACH	KM14	4	0	
A 638	K	274.	264							Y10411	21 8 89	PEACH	KM14	4	0	
A 640	K	284	272.							Y 8924	13 8 89	PEACH	KM14	8	0	
A 639	K	285	324							Y 8926	13 8 89	PEACH	KM14	8	0	
A 639	K	285	324							Y 8925	13 8 89	PEACH	KM14	8	0	

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.842284801
- 2) N = 32
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -3.709275 + 2.50526810 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.19531\text{E-}03 \text{ LENGTH TO THE } 2.50526810$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF	T	S.D
INTERCEPT	-3.709275	-7.783878	0.478533
SLOPE	2.505268	12.857604	0.197926

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.407323

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.321713

7) SUM OF X SQUARED = 185.4843

8) SUM OF Y SQUARED = 172.8473

9) SUM OF XY = 178.9713

SUM OF SMALL X SQUARED = 0.047775

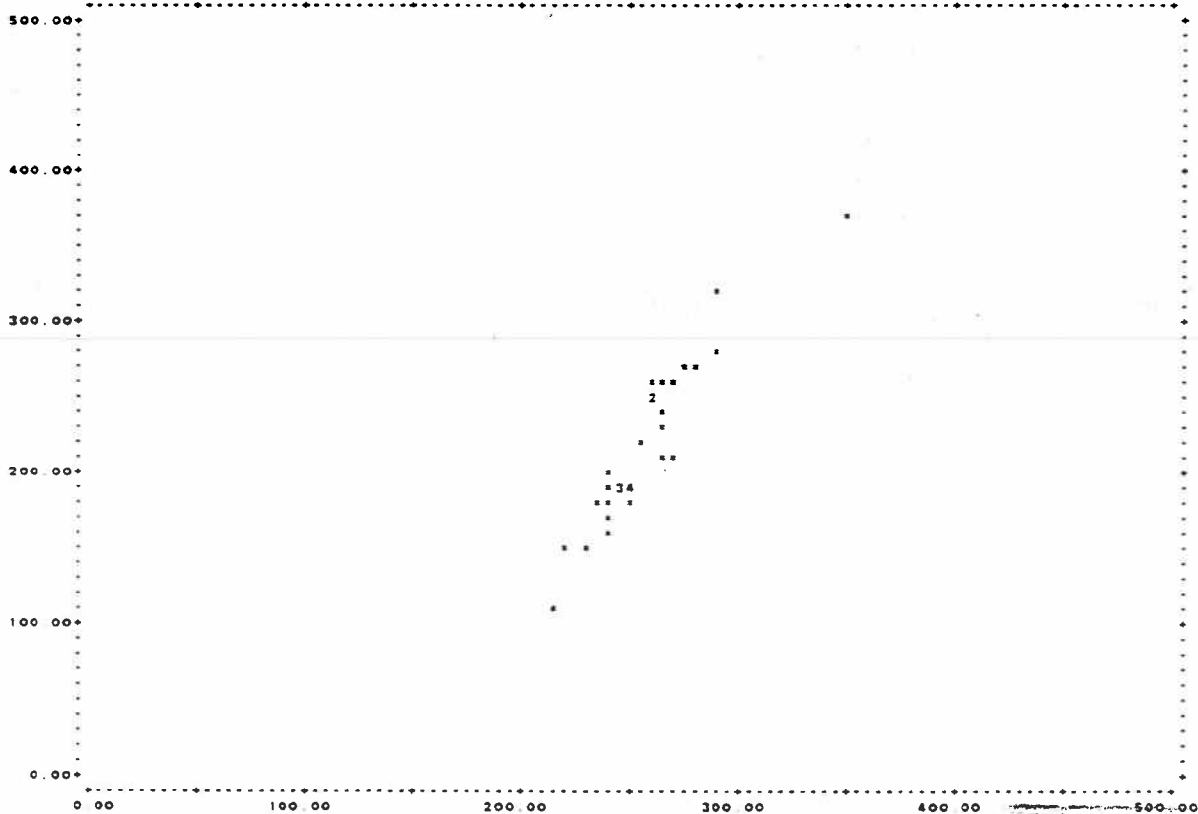
SUM OF SMALL Y SQUARED = 0.358003

SUM OF SMALL XY = 0.118659

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ	F
REGRESS	1	0.29985535	0.29985535	160.21493530
ERROR	30	0.05614746	0.00187158	
TOTAL	31	0.3560028		

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = K

LOCATION = PEACJ

SITE(S) = KM04.9 KM09.2 KM11.2 KM11.6 KM11.8 KM11.9 KM12.2 KM12.3 KM12.8 KM13.0
 KM13.2 KM13.6 KM13.7 KM14.3 KM14.7 KM14.8 KM14.9 KM15.0

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 47

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 219	3	8.1	1.07	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	5	10.2	1.32	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	25	51.0	1.27	14	0	0.0	0.00	0	1	100.0	1.28	1	0	0.0	0.00	0
260- 279	13	26.5	1.30	11	1	100.0	1.08	1	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	2	4.1	1.22	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	1	2.0	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	48	100.0	-	32	1	100.0	-	1	1	100.0	-	1	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 1.2647 STDEY = 0.1248 COEVAR = 9.8703 STDERR = 0.0178 N = 32				MEAN = 1.0771 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 1.2784 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			254 MM				271 MM				251 MM				0 MM	

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
100- 149	3	9.4	1.22	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
150- 199	14	43.8	1.27	14	0	0.0	0.00	0	1	100.0	1.28	1	0	0.0	0.00	0
200- 249	7	21.9	1.27	7	1	100.0	1.08	1	0	0.0	0.00	0	0	0.0	0.00	0
250- 299	6	18.8	1.32	6	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 349	1	3.1	1.31	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	1	3.1	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	32	100.0	-	32	1	100.0	-	1	1	100.0	-	1	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 1.2647 STDEY = 0.1248 COEVAR = 9.8703 STDERR = 0.0178 N = 32				MEAN = 1.0771 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 1.2784 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			197 G				226 G				178 G				0 G	

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX	GONAD MAT. WT(G)	AGE	AGE METH	CAPT MESH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
J241	K	244							ES		28 6 89	PEACJ	KM04.9	0	0	(28-05)
J242	K	265	284						ES	Y 7928	28 6 89	PEACJ	KM09.2	0	0	(AD)
H 235	K	281	262						ES	Y 7927	28 6 89	PEACJ	KM09.2	0	0	
H 221	K	280	248			3	SC		ES	Y 8191	24 6 89	PEACJ	KM09.2	0	0	
J 45	K	260	246			3	SC		ES	Y 8177	24 6 89	PEACJ	KM08.2	0	0	
J 15	K	254	223						ES	Y 7377	23 8 89	PEACJ	KM11.2	0	0	
J 14	K	271							ES	Y 7601	24 6 89	PEACJ	KM11.6	0	0	
J 100	K	250							ES	Y 7568	24 6 89	PEACJ	KM11.6	0	0	
J2816	K	216	106			2	SC		ES		13 6 89	PEACJ	KM11.6	0	0	
J 488	K	253							ES	Y 7602	24 6 89	PEACJ	KM11.6	0	0	
J 488	K	237	182			3	SC		ES	Y 4973	13 6 89	PEACJ	KM11.8	0	0	
J 493	K	220	146			2	SC		ES		13 6 89	PEACJ	KM11.8	0	0	
J 91	K	276	287			3	SC		ES	Y 4874	13 6 89	PEACJ	KM11.8	0	0	
J 88	K	241	197			3	SC		ES	Y 4972	13 6 89	PEACJ	KM11.8	0	0	
J 19	K	263	210						ES		20 6 89	PEACJ	KM11.9	0	0	
J 20	K	249	188	16		3	SC		ES		20 6 89	PEACJ	KM11.9	1	0	ST14(7CHIR, 7COLP)
J2352	K	258							ES	Y 7238	22 6 89	PEACJ	KM12.2	0	0	
J2271	K	245							SC	Y 7175	21 6 89	PEACJ	KM12.2	0	0	
J 483	K	247	193						SC	Y 4868	12 6 89	PEACJ	KM12.3	0	0	
J 47	K	229				2	SC		ES		21 6 89	PEACJ	KM12.8	0	0	
J 46	K	258				3	SC		ES	Y 7067	21 6 89	PEACJ	KM12.8	0	0	
J 45	K	254				3	SC		ES	Y 7066	21 6 89	PEACJ	KM12.8	0	0	
J 33	K	290	276						SC		13 6 89	PEACJ	KM13.0	0	0	
J1443	K	230	147			2	SC		ES		13 6 89	PEACJ	KM13.0	0	0	
J1974	K	241	183			3	SC		ES	Y 4139	19 6 89	PEACJ	KM13.2	0	0	
J1975	K	286	243			3	SC		ES	Y 4140	19 6 89	PEACJ	KM13.2	0	0	
J 46	K	241							ES	Y 5059	17 6 89	PEACJ	KM13.2	0	0	
J 168	K	290	320			3	SC		ES	Y 4134	19 6 89	PEACJ	KM13.2	0	0	
J 142	K	245	192			3	SC		ES	Y 4880	6 6 89	PEACJ	KM13.5	0	0	
J 166	K	248	189						ES	Y 4903	6 6 89	PEACJ	KM13.7	0	0	
J1393	K	248	192			3	SC		ES	Y 4924	6 6 89	PEACJ	KM13.7	0	0	
J1902	K	286	230						ES	Y 4081	19 6 89	PEACJ	KM13.7	0	0	
J1903	K	289	258						ES	Y 4082	19 6 89	PEACJ	KM13.7	0	0	
J 101	K	251	192						ES	Y 4080	19 6 89	PEACJ	KM13.7	0	0	
J 190	K	242							ES	Y 4993	15 6 89	PEACJ	KM13.7	0	0	
J 194	K	248	190			3	SC		ES	Y 4925	6 6 89	PEACJ	KM13.7	0	0	
J 198	K	241	178						ES	Y 4078	19 6 89	PEACJ	KM13.7	0	0	
J 939	K	270	212	1		3	SO		ES		4 6 89	PEACJ	KM14.3	1	0	ST18PTCHIRAD
J 918	K	280							ES		4 6 89	PEACJ	KM14.3	0	0	FUNGAL GROWTH ON AB
J1028	K	243							ES		4 6 89	PEACJ	KM14.3	0	0	
J 105	K	219							ES		4 6 89	PEACJ	KM14.3	0	0	
J 163	K	227							ES		4 6 89	PEACJ	KM14.3	0	0	
J 118	K	217							ES		4 6 89	PEACJ	KM14.3	0	0	
J 128	K	242	195			3	SC		ES	Y 4944	7 6 89	PEACJ	KM14.3	0	0	
J1444	K	253							ES	Y 4889	14 6 89	PEACJ	KM14.7	0	0	
J 529	K	350	366						ES	Y 4335	3 6 89	PEACJ	KM14.8	0	0	
J 442	K	279	273			3	SO		ES		3 6 89	PEACJ	KM14.9	1	0	ST15(15ADCHIR.)
J 398	K	250	180			3	SC		ES	Y 4930	7 6 89	PEACJ	KM15.0	0	0	
J 403	K	241	183			3	SC		ES	Y 4933	7 6 89	PEACJ	KM15.0	0	0	

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
300- 349	1	100.0	1.22	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	1	100.0	-	1	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 1.2174 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			328 G				0 G				0 G					0 G

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 1). *****

AGE-GROWTH ANALYSIS

ALL GROUPED

	AGE-	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER
LENGTH(MM)																		
MAX				281.0														
MEAN+CI				281.0														
MEAN				281.0														
MEAN-CI				281.0														
MIN				281.0														
NUMBER				1.														
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT(G)																		
MAX				300.0														
MEAN+CI				300.0														
MEAN				300.0														
MEAN-CI				300.0														
MIN				300.0														
NUMBER				1.														
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONDITION																		
MAX	0.000	0.000	0.000	1.217	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	1.217	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	1.217	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER				1.														
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NO MALES IN AGED SAMPLE

NO FEMALES IN AGED SAMPLE

NO SEX INDETERMINABLE IN AGED SAMPLE

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE SP. LENGTH WEIGHT SEX GONAD AGE AGE CAPT MESH TAG DATE LOCATION SITE CAPT PRES COMMENTS
 NO. (MM) (G) MAT WT(G) METH METH (CM) NO. DAY MO YR CODE CODE
 C 899 K 291 300 3 SC ES Y14173 14 10 89 HALFO KMO2.1 0 0

=====
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***
 =====

SPECIES = K
 LOCATION = HALFO SITE(S) = KMO2.1

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 1

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
280 - 299	1	100.0	1.22	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	1	100.0		1	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY			MEAN = 1.2174 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDDEV = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			291 MM				0 MM				0 MM				0 MM	

=====
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***
 =====

SPECIES = GE

LOCATION= PEACO SITE(S)=KM09.1 KM13.2

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 2

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
380- 399	1	50.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
560- 579	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
580- 599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 619	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
620- 639	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
640- 659	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
660- 679	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
680- 699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 719	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
720- 739	1	50.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	2	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000		MEAN =	0.0000	
		STDEV =	0.0000		STDEV =	0.0000		STDEV =	0.0000		STDEV =	0.0000		STDEV =	0.0000	
		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000		CDEVAR =	0.0000	
		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000		STDERR =	0.0000	
		N =	0		N =	0		N =	0		N =	0		N =	0	
MEDIAN SIZE			721 MM			0 MM			0 MM			0 MM			0 MM	

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

*** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ***

University of Alberta

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX-MAT.	GONAD WT(G)	AGE METH	AGE METH	CAPT	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
02309	GE	735						GN		Y15654	18 10 89	PEACD	KM08.1	0	0	GN1
01400	GE	390						GN			11 10 89	PEACD	KM13.2	1	0	GN1

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE METH	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
A3888	GE	320						ES		Y11753	27 8 89	PEACH	KMO2.8	0	0	
A3791	GE	378						ES		Y11675	27 8 89	PEACH	KMO3.8	0	0	
A3783	GE	385						ES		Y11849	27 8 89	PEACH	KMO3.8	0	0	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)**NOTE**

SPECIES = GE
 LOCATION = PEACH SITE(S) = KMO2.8 KMO3.8

LENGTH - WEIGHT ANALYSIS

NO FISH NOT SEXED = 3

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
320- 339	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY	MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	371 MM				0 MM				0 MM				0 MM			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-GROWTH ANALYSIS

 ALL GROUPED

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDF

LENGTH(MM)																	
* MAX										313.0	321.0	358.0		352.0	390.0	385.0	405.0
* MEAN+CI										313.0	321.0	358.0		352.0	390.0	502.1	438.0
* MEAN																375.0	392.0
* MEAN-CI																247.9	346.0
* MIN										313.0	321.0	358.0		352.0	390.0	365.0	371.0
* NUMBER										1.	1.	1.		1.	1.	2.	2.
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.14	18.50
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	10.70
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	4.70

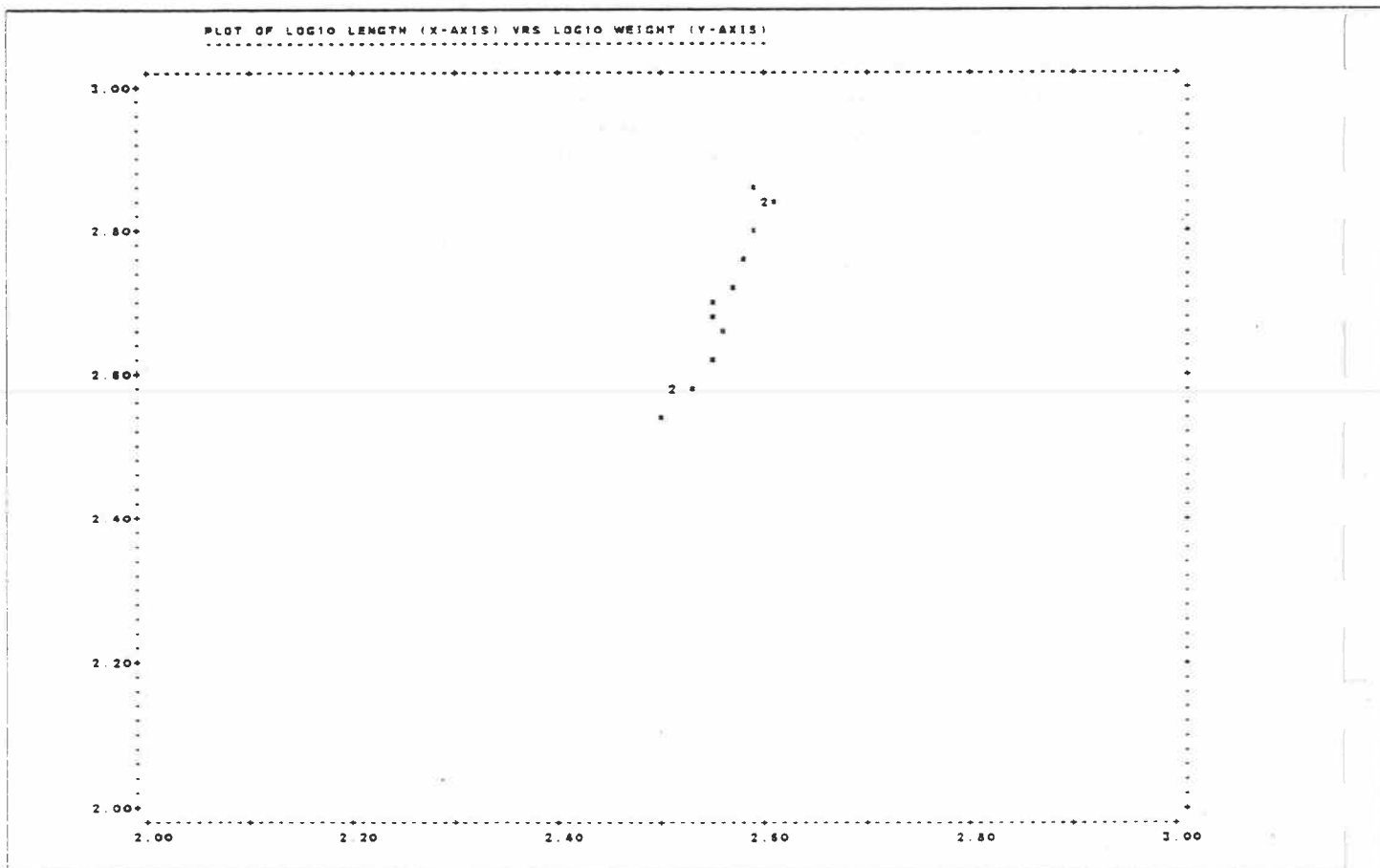
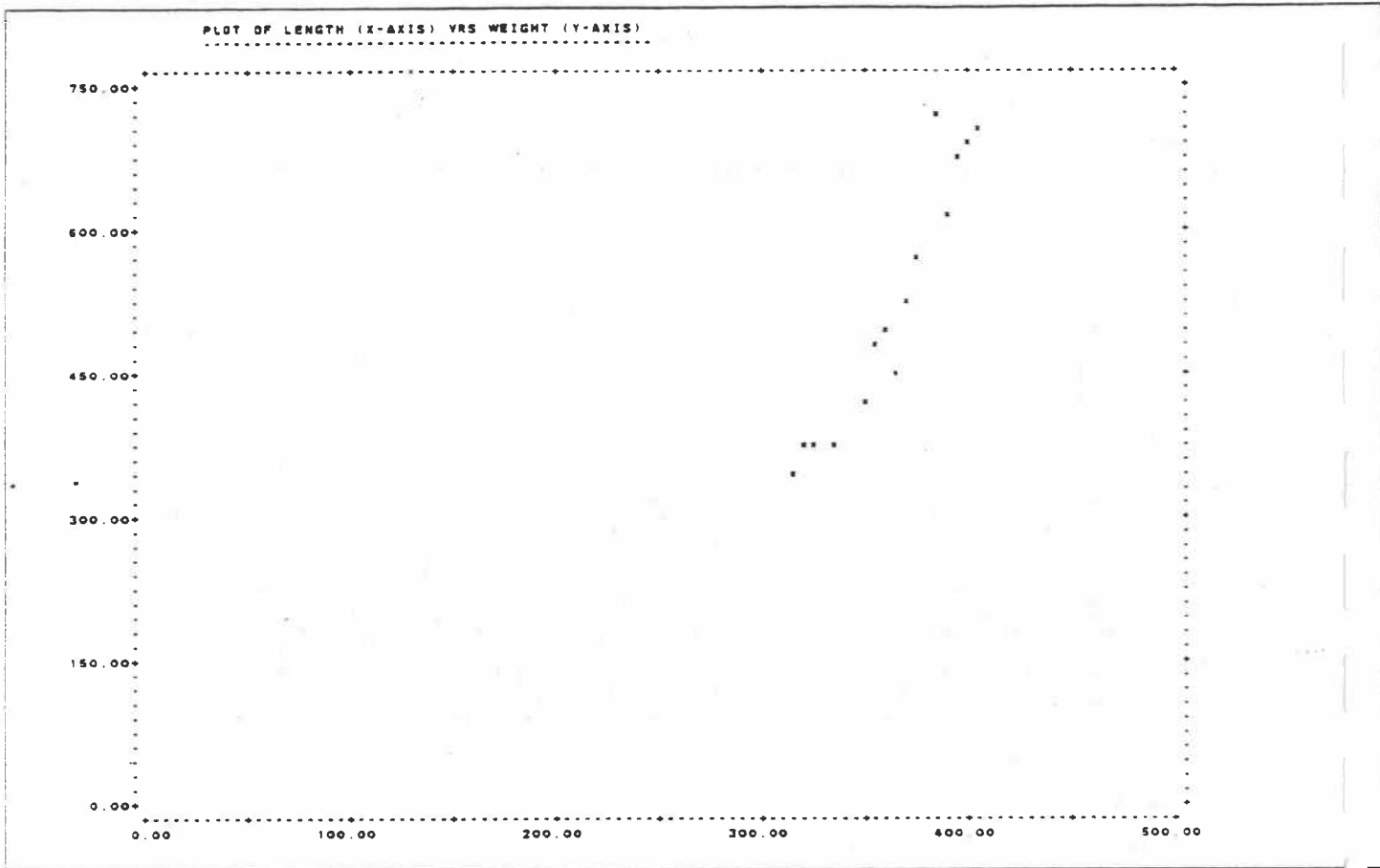
WEIGHT(G)																	
* MAX										340.0	380.0	500.0		424.0	620.0	714.0	700.0
* MEAN+CI										340.0	380.0	500.0		424.0	620.0	2270.9	879.0
* MEAN																581.0	636.0
* MEAN-CI																*****	392.0
* MIN										340.0	380.0	500.0		424.0	620.0	448.0	524.0
* NUMBER										1.	1.	1.		1.	1.	2.	3.
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	188.09	97.80
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00	56.40
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.37	15.20

CONDITION																	
* MAX	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.148	1.090	0.000	0.972	1.045	1.251	1.060
* MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.182	1.090
* MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.148	1.090	0.000	0.972	1.045	1.086	1.040
* MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.009	0.990
* MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.108	1.148	1.090	0.000	0.972	1.045	0.921	1.020
* NUMBER										1.	1.	1.		1.	1.	2.	3.
* SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
* STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
* COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.47	1.80

NO MALES IN AGED SAMPLE
 NO FEMALES IN AGED SAMPLE
 NO SEX INDETERMINABLE IN AGED SAMPLE

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
300- 349	1	6.7	1.11	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	3	20.0	1.07	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 449	2	13.3	0.95	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450- 499	1	6.7	1.10	1	0	0.0	0.00	0	1	100.0	1.10	1	0	0.0	0.00	0
500- 549	2	13.3	1.08	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550- 599	1	6.7	1.07	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 649	1	6.7	1.05	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650- 699	2	13.3	1.09	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 749	2	13.3	1.15	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	15	100.0		15	0	0.0		0	1	100.0		1	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	1.0676		MEAN =	0.0000			MEAN =	1.0958			MEAN =	0.0000		
		STDEY =	0.0777		STDEY =	0.0000			STDEY =	0.0000			STDEY =	0.0000		
		COEVAR =	7.2811		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0201		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	15		N =	0			N =	1			N =	0		
MEDIAN SIZE			513 G				0 G				478 G					0 G

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.917861875
- 2) N = 15
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -4.953082 + 2.99235916 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.11141E-04 \text{ LENGTH TO THE } 2.99235916$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-4.953082	-7.785819	0.635352
SLOPE	2.992358	12.052758	0.248272

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.568867

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.702966

7) SUM OF X SQUARED = 98.2350

8) SUM OF Y SQUARED = 109.8460

9) SUM OF XY = 102.8297

SUM OF SMALL X SQUARED = 0.017875

SUM OF SMALL Y SQUARED = 0.175354

SUM OF SMALL XY = 0.053802

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SO	MEAN SO	F
REGRESS	1	0.16095066	0.16095066	145.26896667
ERROR	13	0.01440334	0.00110795	
TOTAL	14	0.1753540		

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT (G)	AGE METH	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H 388	GE	385	714			15	SC	ES		Y 8336	27 6 88	PEACJ	KM01.2	0	0	
H 387	GE	405	700			17	SC	ES		Y 8335	27 6 88	PEACJ	KM01.2	0	0	
H 430	GE	365	448			15	SC	ES		Y 8386	27 6 88	PEACJ	KM02.6	0	0	
H 381	GE	321	380			10	SC	ES		Y 8320	26 6 88	PEACJ	KM02.6	0	0	
H 480	GE	401	686			16	SC	ES		Y 8395	28 6 88	PEACJ	KM02.6	0	0	
H 483	GE	352	424			13	SC	ES		Y 8417	28 6 88	PEACJ	KM02.6	0	0	
H 431	GE	371	524			16	SC	ES		Y 8367	27 6 88	PEACJ	KM02.6	0	0	
H 486	GE	394	640				SC	ES		Y 8280	28 6 88	PEACJ	KM02.6	0	0	(28-05)
J 206	GE	352	482	20				ES		Y 8246	28 6 88	PEACJ	KM02.6	0	0	(28-05)
J 204	GE	327	373					ES		Y 8388	27 6 88	PEACJ	KM02.6	0	0	
H 432	GE	377	574				SC	ES		Y 8365	27 6 88	PEACJ	KM02.6	0	0	
H 429	GE	313	340			9	SC	ES				PEACJ	KM02.6	0	0	
H 380	GE	358	500			11	SC	ES				PEACJ	KM02.6	0	0	
H 532	GE	337	378					ES		Y 8458	28 6 88	PEACJ	KM02.6	0	0	
H 318	GE	390	620			14	SC	ES		Y 8261	25 6 88	PEACJ	KM04.8	0	0	

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = GE
 LOCATION = PEACJ SITE(S) = KM01.2 KM02.6 KM04.8

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 14

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
300- 319	1	6.7	1.11	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	3	20.0	1.07	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	3	20.0	1.05	3	0	0.0	0.00	0	1	100.0	1.10	1	0	0.0	0.00	0
360- 379	3	20.0	1.01	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	3	20.0	1.14	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	2	13.3	1.06	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	15	100.0		15	0	0.0		0	1	100.0		1	0	0.0		0
COND FACTORS SUMMARY			MEAN = 1.0678				MEAN = 0.0000				MEAN = 1.0958				MEAN = 0.0000	
			STDEY = 0.0777				STDEY = 0.0000				STDEY = 0.0000				STDEY = 0.0000	
			COEVAR = 7.2811				COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000	
			STDERR = 0.0201				STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000	
			N = 15				N = 0				N = 1				N = 0	
MEDIAN SIZE			384 MM				0 MM				351 MM				0 MM	

====NOTE==== SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)====NOTE====

SPECIES = FMC
 LOCATION = PEACJ SITE(S) = KM00.4

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 2

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
220- 239	1	50.0	1.30	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	1	50.0	1.38	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	2	100.0	-	2	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.3404 STDEY = 0.0802 CDEYAR = 4.4867 STDERR = 0.0425 N = 2				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	241 MM				0 MM				0 MM				0 MM			

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
100- 149	1	50.0	1.30	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
150- 199	1	50.0	1.38	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	2	100.0	-	2	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY	MEAN = 1.3404 STDEY = 0.0802 CDEYAR = 4.4867 STDERR = 0.0425 N = 2				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 CDEYAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	151 G				0 G				0 G				0 G			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 2). *****

AGE-GROWTH ANALYSIS

== NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ==

AGE-MATURITY ANALYSIS

== NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE ==

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX	GONAD MAT. WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
J 221	FMC	222	142					ES			99 6 89	PEACJ	KMOO 4	0	0	(29-05)
J 220	FMC	242	196					ES			99 6 89	PEACJ	KMOO 4	0	0	(29-05)

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT	GONAD WT (G)	AGE METH	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H 13	PNC	218		♂				ES		Y 8012	22 8 88	HALFJ	KM00.5	0	0	

.....
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***

SPECIES = PNC
 LOCATION = HALFJ SITE(S) = KM00.5

LENGTH - WEIGHT ANALYSIS

NO FISH NOT SEXED = 0

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 219	1	100.0	0.00	0	1	100.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	1	100.0		0	1	100.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY	MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0			
MEDIAN SIZE	211 MM				211 MM				0 MM				0 MM			

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

10/11

AGE-MATURITY ANALYSIS

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER	TOTAL
SEX/MAT																		
98								1										1
1																		0
2																		0
3																		0
4																		0
5																		0
6									1									1
7																		0
8																		0
9																		0
10																		0
11																		0
12																		0
13																		0
14																		0
15																		0
16									1		1							2
17																		0
18																		0
19																		0
20																		0
TOTAL								1	1	1	1							4

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX/MAT	GONAD WT(G)	AGE	AGE METH	CAPT METH (CM)	MESH	TAG NO	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS	
C 573	NP	855	4650					ES		Y15243	13 10 89	HALFO	KM03	9	0	0	USED FOR TRANS REL

AGE-GROWTH ANALYSIS

FEMALES ONLY

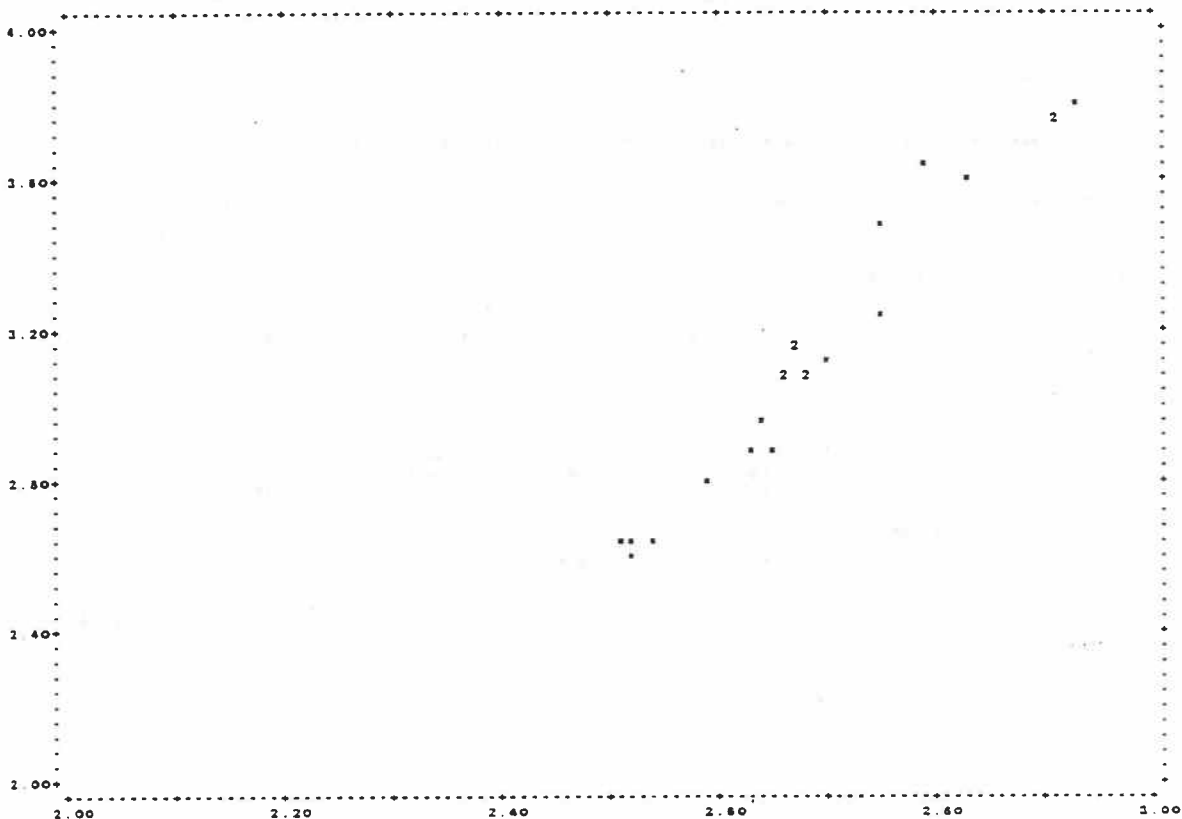
AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	GLD
LENGTH (MM)																	
MAX							330.0										814.0
MEAN+CI							330.0										814.0
MEAN																	
MEAN-CI																	
MIN							330.0										814.0
NUMBER							1.										
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
WEIGHT (G)																	
MAX							414.0										5700.0
MEAN+CI							414.0										5700.0
MEAN																	
MEAN-CI																	
MIN							414.0										5700.0
NUMBER							1.										
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
CONDITION																	
MAX	0.000	0.000	0.000	0.000	0.000	0.000	1.182	0.000	0.000	0.000	1.057	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	1.182	0.000	0.000	0.000	1.057	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	0.000	0.000	0.000	1.182	0.000	0.000	1.057	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER							1.				1.						
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

AGE-GROWTH ANALYSIS

SEX INDETERMINABLE

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	GLD
LENGTH (MM)																	
MAX																	448.0
MEAN+CI																	448.0
MEAN																	
MEAN-CI																	
MIN																	448.0
NUMBER																	1.
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
WEIGHT (G)																	
MAX																	784.0
MEAN+CI																	784.0
MEAN																	
MEAN-CI																	
MIN																	784.0
NUMBER																	1.
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
CONDITION																	
MAX	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER								1.									
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

PLOT OF LOG10 LENGTH (X-AXIS) YRS LOG10 WEIGHT (Y-AXIS)



AGE-GROWTH ANALYSIS

```

*****
*ALL GROUPED*
*****
AGE  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  OL
-----
LENGTH(MM)
MAX          352.0  446.0  510.0  514.0
MEAN+CI     754.9  800.2  1224.8
MEAN        361.0  435.0  557.5  514.0
MEAN-CI     -32.9  269.8  -108.6
MIN         330.0  422.0  505.0  514.0
NUMBER      2.  2.  2.  1.
SD          0.00  0.00  0.00  0.00  0.00  0.00  43.84  18.38  74.25  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
STERR       0.00  0.00  0.00  0.00  0.00  0.00  31.00  13.00  52.50  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
COVAR      0.00  0.00  0.00  0.00  0.00  0.00  12.14  4.23  13.32  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
WEIGHT(G)
MAX          542.0  784.0  4400.0  5700.0
  
```

WARNING Output field width too small. Condition occurred during a formatted WRITE on FORTRAN unit 11 which is attached to -FSHSC. The write is sequential at line 10. For this and all future occurrences of this condition, a field of '*' will be written.

```

MEAN+CI      1976.5  959.8  *****
MEAN         528.0  758.0  2855.0  5700.0
MEAN-CI     -920.8  578.4  *****
MIN          414.0  754.0  1310.0  5700.0
NUMBER      2.  2.  2.  1.
SD          0.00  0.00  0.00  0.00  0.00  0.00  161.22  21.21  *****  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
STERR       0.00  0.00  0.00  0.00  0.00  0.00  114.00  15.00  *****  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
COVAR      0.00  0.00  0.00  0.00  0.00  0.00  30.53  2.78  76.53  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
CONDITION
-----
MAX          0.000  0.000  0.000  0.000  0.000  0.000  1.152  1.003  1.938  1.057  0.000  0.000  0.000  0.000  0.000  0.000  0.000
MEAN+CI     0.000  0.000  0.000  0.000  0.000  0.000  1.557  1.772  7.331  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
MEAN        0.000  0.000  0.000  0.000  0.000  0.000  1.109  0.938  1.478  1.057  0.000  0.000  0.000  0.000  0.000  0.000  0.000
MEAN-CI     0.000  0.000  0.000  0.000  0.000  0.000  0.581  0.103  -4.375  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
MIN         0.000  0.000  0.000  0.000  0.000  0.000  1.066  0.572  1.017  1.057  0.000  0.000  0.000  0.000  0.000  0.000  0.000
NUMBER      0.00  0.00  0.00  0.00  0.00  0.00  0.06  0.09  0.85  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
SD          0.00  0.00  0.00  0.00  0.00  0.00  0.04  0.07  0.48  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
STERR       0.00  0.00  0.00  0.00  0.00  0.00  0.04  0.07  0.48  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
  
```

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.958750546
- 2) N = 22
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -5.010204 + 3.02858012 \text{ LOG}_{10}(\text{LENGTH})$
OR $\text{WEIGHT} = 0.97878\text{E-}05 \text{ LENGTH TO THE } 3.02858012$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-5.010204	-13.238207	0.378437
SLOPE	3.028580	21.560384	0.140516

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.890437

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 3.140691

7) SUM OF X SQUARED = 158.5725

8) SUM OF Y SQUARED = 220.1326

9) SUM OF XY = 186.8855

SUM OF SMALL X SQUARED = 0.326523

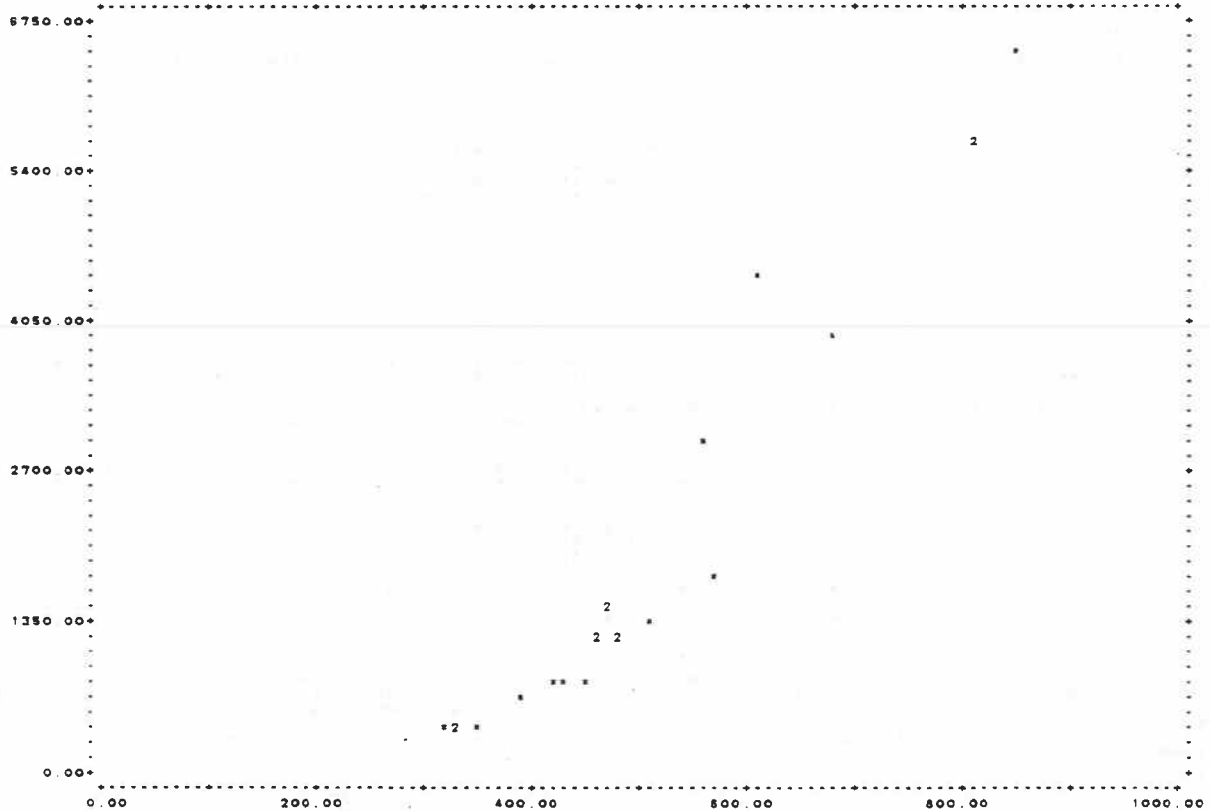
SUM OF SMALL Y SQUARED = 3.125885

SUM OF SMALL XY = 0.389182

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ	F
REGRESS	1	2.98884252	2.98884252	464.84960928
ERROR	20	0.12894248	0.00644712	
TOTAL	21	3.1258850		

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS # G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N
400- 499	4	18.2	1.17	4	0	0.0	0.00	0	1	50.0	1.15	1	0	0.0	0.00	0
500- 599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 699	1	4.5	1.07	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 799	2	9.1	0.84	2	0	0.0	0.00	0	0	0.0	0.00	0	1	100.0	0.87	1
800- 899	1	4.5	1.07	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900- 999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1199	1	4.5	1.23	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1299	3	13.5	1.19	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1399	1	4.5	1.02	1	1	100.0	1.02	1	0	0.0	0.00	0	0	0.0	0.00	0
1400-1499	2	9.1	1.37	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1500-1599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1600-1699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1700-1799	1	4.5	0.88	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1800-1899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1900-1999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2000-2099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2100-2199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2200-2299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2300-2399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2400-2499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2500-2599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2600-2699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2700-2799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2800-2899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2900-2999	1	4.5	1.65	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3000-3099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3100-3199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3200-3299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3300-3399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3400-3499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3500-3599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3600-3699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3700-3799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3800-3899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3900-3999	1	4.5	1.27	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4000-4099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4100-4199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4200-4299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4300-4399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4400-4499	1	4.5	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4500-4599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4600-4699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4700-4799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4800-4899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4900-4999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
5000-5099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	22	100.0		22	1	100.0		1	2	100.0		2	1	100.0		1
COND. FACTORS SUMMARY			MEAN = 1.1926 STODEV = 0.2377 CDEVAR = 19.9316 STDERR = 0.0386 N = 22			MEAN = 1.0172 STODEV = 0.0000 CDEVAR = 0.0000 STDERR = 0.0000 N = 1				MEAN = 1.1044 STODEV = 0.0673 CDEVAR = 6.0948 STDERR = 0.0476 N = 2				MEAN = 0.8719 STODEV = 0.0000 CDEVAR = 0.0000 STDERR = 0.0000 N = 1		
MEDIAN SIZE			1287 G			1351 G				5701 G				751 G		

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AGE-GROWTH ANALYSIS

=====
 ** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **
 =====

AGE-MATURITY ANALYSIS

=====
 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **
 =====

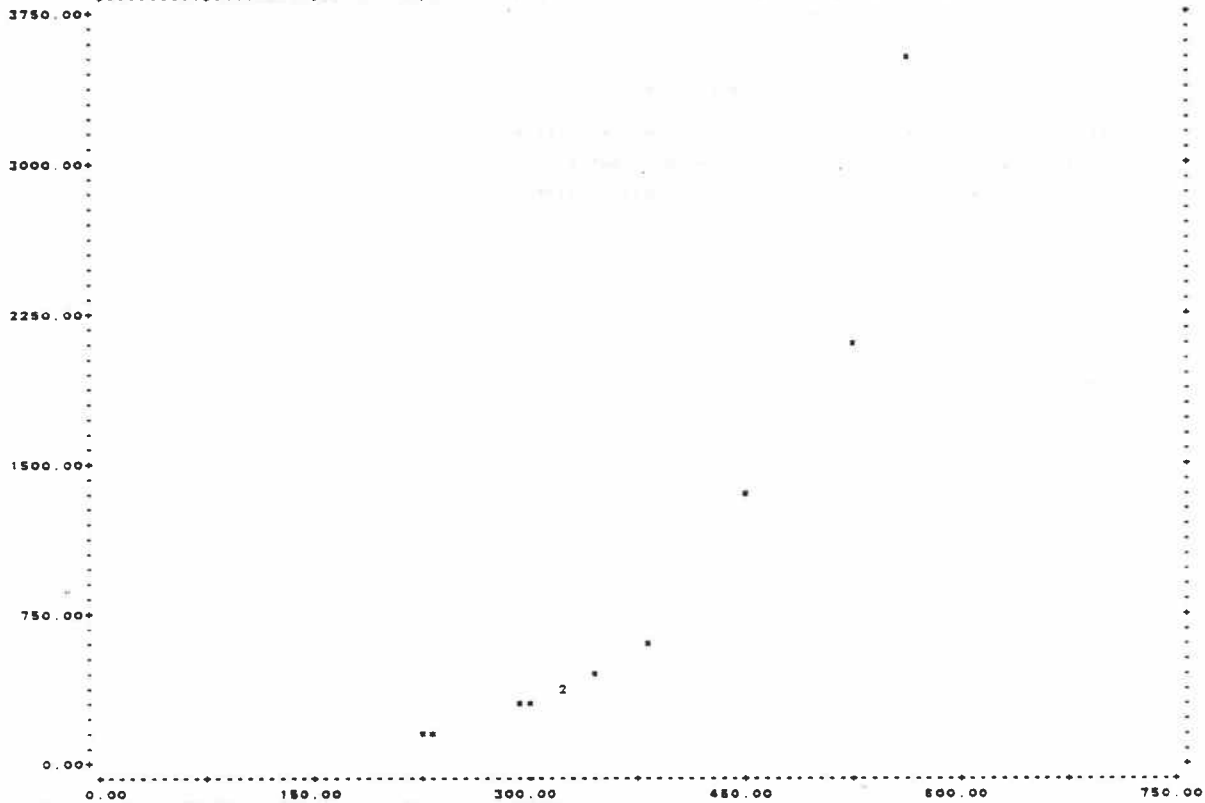
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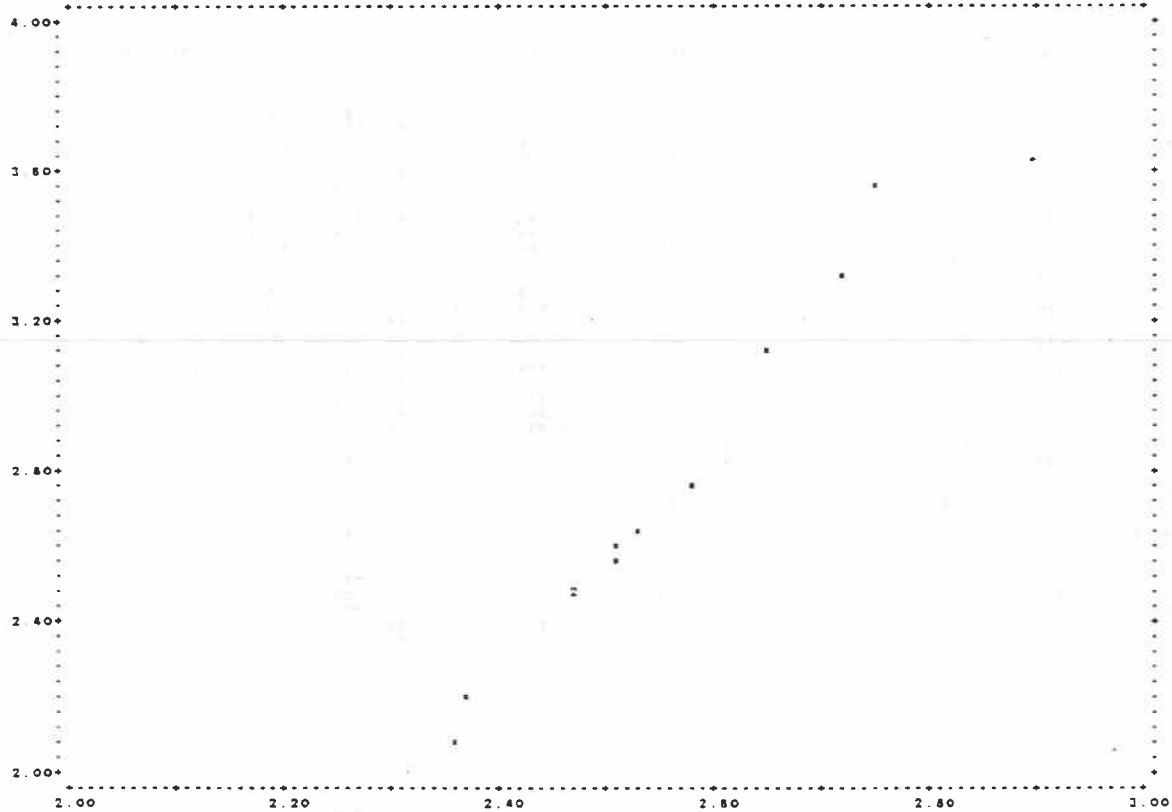
PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO	SP	LENGTH (MM)	WEIGHT (G)	SEX	GONAD MAT	WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRE CODE	COMMENTS
C 113	DV	249								ES		9 10 89	PEACD	KM13.1	0	0	
01811	DV	320	419							ES	Y15294	14 10 89	PEACD	KM10.9	0	0	
02328	DV	282								ES	Y15868	20 10 89	PEACD	KM08.0	0	0	
02992	DV	457	1225							ES	Y15814	24 10 89	PEACD	KM04.5	0	0	USED FOR TRANS IMP
02330	DV	277								ES	Y15883	20 10 89	PEACD	KM08.0	0	0	
02115	DV	384								ES	Y15384	17 10 89	PEACD	KM10.1	0	0	
02984	DV	577	3950							ES	Y15805	20 10 89	PEACD	KM07.0	0	0	USED FOR TRANS IMP
C 319	DV	296								ES	Y13892	11 10 89	PEACD	KM12.6	0	0	
01160	DV	487	1170							ES	Y13731	12 10 89	PEACD	KM12.2	0	0	
C 787	DV	334								AL	Y15518	19 10 89	PEACD	KM15.0	0	0	
03187	DV	485								ES	Y15651	19 10 89	PEACD	KM09.4	0	0	
0 2	DV	292								ES	Y13831	7 10 89	PEACD	KM14.3	0	0	
C 790	DV	477	1226							AL		19 10 89	PEACD	KM15.0	1	0	
02213	DV	326								ES	Y15584	18 10 89	PEACD	KM10.5	0	0	
02967	DV	588	1780							ES	Y15352	15 10 89	PEACD	KM13.2	0	0	USED FOR TRANS IMP
03199	DV	300								ES	Y16653	19 10 89	PEACD	KM09.1	0	0	
01537	DV	470								ES	Y15090	13 10 89	PEACD	KM12.1	0	0	
02931	DV	348								ES	Y15786	25 10 88	PEACD	KM06.3	0	0	
M 5	DV	814	5700	16			8	PO		ES		10 10 89	PEACD		1	0	MERCURY ANALYSIS
02114	DV	313								ES	Y15385	17 10 89	PEACD	KM10.2	0	0	MERCURY ANALYSIS
M 41	DV	422	784				7	OT		ES		17 10 89	PEACD		1	0	MERCURY ANALYSIS
01843	DV	350	448							ES	Y18322	14 10 89	PEACD	KM10.9	0	0	
02959	DV	850	8500							ES	Y13855	8 10 89	PEACD	KM12.5	0	0	USED FOR TRANS IMP
01236	DV	330	432							ES	Y13734	12 10 89	PEACD	KM12.8	0	0	
M 43	DV	510	4400				8	OT		ES		17 10 89	PEACD		1	0	MERCURY ANALYSIS
M 14	DV	330	414	16			6	OT		ES		12 10 89	PEACD		1	0	MERCURY ANALYSIS*
02119	DV	887								ES		17 10 89	PEACD	KM10.2	1	0	MERCURY ANALYSIS*
M 63	DV	475	1225							ES		19 10 89	PEACD		1	0	MERCURY ANALYSIS
M 27	DV	448	784	89			7	OT		ES		14 10 89	PEACD		1	0	MERCURY ANALYSIS
0 802	DV	814	5700							ES		10 10 89	PEACD	KM14.9	1	0	
02200	DV	445								ES	Y15573	18 10 89	PEACD	KM09.0	0	0	
M 28	DV	505	1310	6			6	OT		ES		14 10 89	PEACD		1	0	MERCURY ANALYSIS
02978	DV	472	1440							ES	Y15600	19 10 89	PEACD	KM15.0	0	0	USED FOR TRANS IMP
01428	DV	434	872							ES	Y15009	13 10 89	PEACD	KM13.0	0	0	
M 46	DV	392	642				6	OT		ES		17 10 89	PEACD		1	0	MERCURY ANALYSIS
C 784	DV	410								GN	Y15516	17 10 85	PEACD	KM13.0	0	0	
02983	DV	563	2950							ES	Y15805	20 10 89	PEACD	KM02.4	0	0	USED FOR TRANS IMP
C 811	DV	472	1440							AL	Y15800	19 10 89	PEACD	KM15.0	0	0	USED FOR TRANS REL

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
100-199	2	18.2	1.15	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200-299	2	18.2	1.12	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300-399	2	18.2	1.14	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-499	1	9.1	1.10	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500-599	1	9.1	1.05	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600-699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700-799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800-899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900-999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1399	1	9.1	1.51	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1400-1499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1500-1599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1600-1699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1700-1799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1800-1899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1900-1999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2000-2099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2100-2199	1	9.1	1.47	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2200-2299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2300-2399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2400-2499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2500-2599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2600-2699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2700-2799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2800-2899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2900-2999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3000-3099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3100-3199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3200-3299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3300-3399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3400-3499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3500-3599	1	9.1	1.98	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	11	100.0	-	11	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	1.2677		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDEEV =	0.2571		STDEEV =	0.0000			STDEEV =	0.0000			STDEEV =	0.0000		
		COEVAR =	22.8484		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0659		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	11		N =	0			N =	0			N =	0		
MEDIAN SIZE			378 G			0 G				0 G				0 G		

LENGTH - WEIGHT REGRESSION

1) THE COEF OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.983618379

2) N = 11

3) THE LENGTH - WEIGHT REGRESSION EQUATION IS LOG10(WEIGHT) = -6.195862 + 3.50829315 LOG10(LENGTH)
OR WEIGHT = 0.83697E-06 LENGTH TO THE 3.50829315

4. TEST OF REGRESSION COEFFICIENTS.

	INTERCEPT	REGRESSION COEFF	T	S.D.
		-6.195862	-16.154175	0.383547
	SLOPE	3.508293	23.246048	0.150920

5) LOG10(LENGTH) MEANS = 2.538446

6) LOG10(WEIGHT) MEANS = 2.709732

7) SUM OF X SQUARED = 71.0456 SUM OF SMALL X SQUARED = 0.184656

8) SUM OF Y SQUARED = 82.8295 SUM OF SMALL Y SQUARED = 2.060379

9) SUM OF XY = 76.2413 SUM OF SMALL XY = 0.577867

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ.	F
REGRESS	1	2.02662563	2.02662563	540.37915039
ERROR	9	0.03375340	0.00375033	
TOTAL	10	2.06037900		

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
 NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
 NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA

PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	COND WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
A2485	DV	241.						ES			23 8 89	PEACN	KM10.7	0	0	
A3881	DV	434.						ES		Y10804	23 8 89	PEACN	KM13.4	0	0	
A 104	DV	287.						ES		Y 8658	9 8 89	PEACN	KM13.9	0	0	
A1128	DV	321.	380.					ES		Y 9258	15 8 89	PEACN	KM12.3	0	0	
A1580	DV	227.	120.					ES			18 8 89	PEACN	KM12.8	0	0	
A4658	DV	448.	1380.					ES		Y13287	29 8 89	PEACN	KM08.9	0	0	
A3983	DV	281.						ES		Y10805	25 8 89	PEACN	KM10.9	0	0	(HP)
A1804	DV	342.	440.					ES		Y 9801	18 8 89	PEACN	KM12.5	0	0	
A2830	DV	233.	182.					ES			20 8 89	PEACN	KM09.9	0	0	
A 530	DV	454.						ES		Y 8856	12 8 89	PEACN	KM13.2	0	0	
A3591	DV	298.	294.					ES		Y10990	25 8 89	PEACN	KM08.6	0	0	
A2065	DV	488.						ES		Y 9872	17 8 89	PEACN	KM11.5	0	0	
A1845	DV	382.	584.					ES		Y 9771	17 8 89	PEACN	KM12.8	0	0	
A1065	DV	524.	2120.					ES		Y 8227	15 8 89	PEACN	KM12.7	0	0	
A2382	DV	296.	292.					ES		Y10161	19 8 89	PEACN	KM10.8	0	0	
A 441	DV	402.						ES		Y 8811	12 8 89	PEACN	KM13.4	0	0	
A2380	DV	325.	380.					ES		Y10160	19 8 89	PEACN	KM10.8	0	0	
A3376	DV	488.						ES		Y10884	25 8 89	PEACN	KM10.8	0	0	
A3841	DV	581.	3500.					ES		Y11521	26 8 89	PEACN	KM04.6	0	0	

=====
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***
 =====

SPECIES = DV
 LOCATION = PEACN SITE(S) = KM10.7 KM13.4 KM13.8 KM12.3 KM12.8 KM08.9 KM10.9 KM12.5 KM08.9 KM13.2
 KM08.6 KM11.5 KM12.7 KM10.8 KM04.6

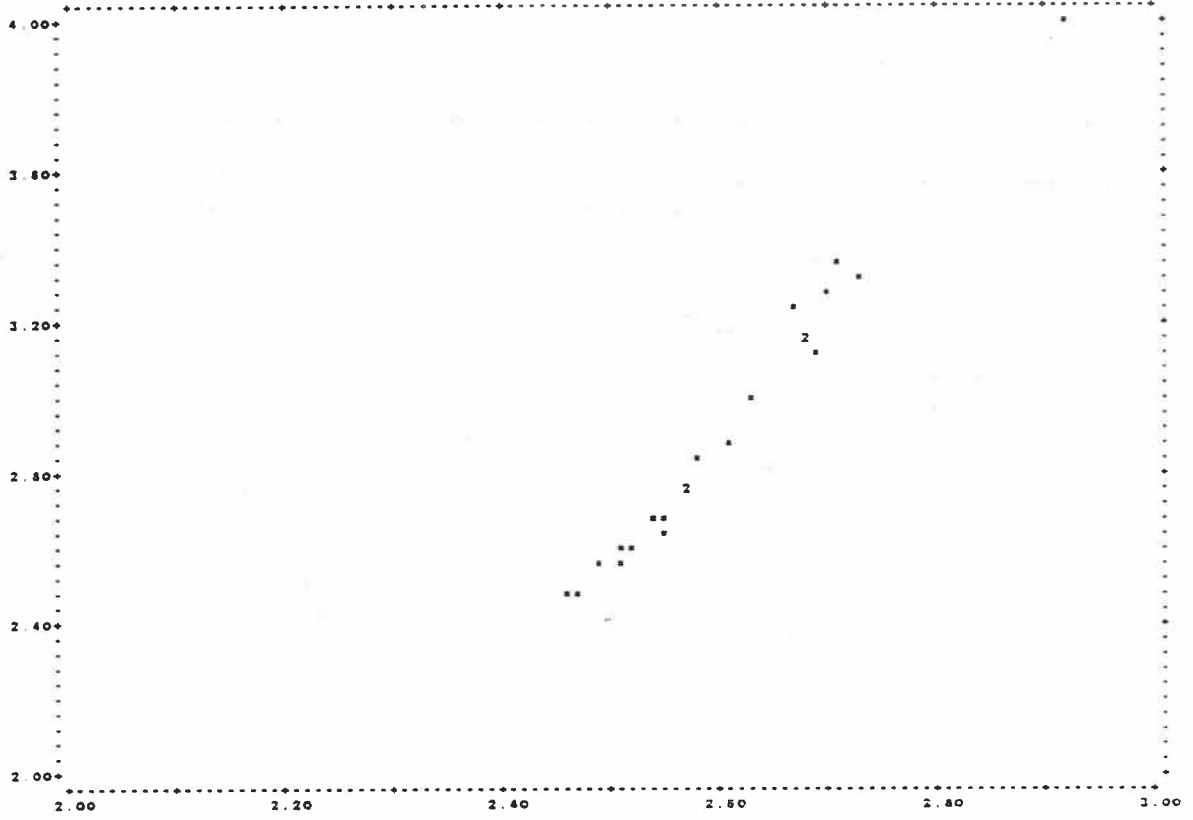
LENGTH - WEIGHT ANALYSIS

NO FISH NOT SEXED = 19

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
220- 239	2	10.5	1.15	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	1	5.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	4	21.1	1.12	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	2	10.5	1.14	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	1	5.3	1.10	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	1	5.3	1.08	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	1	5.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	1	5.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	2	10.5	1.51	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	2	10.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	1	5.3	1.47	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
560- 579	1	5.3	1.98	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	19	100.0		11	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	1.2577		MEAN =	0.0000		MEAN =	0.0000	MEAN =	0.0000		MEAN =	0.0000		
		STDDEV =	0.2871		STDDEV =	0.0000		STDDEV =	0.0000	STDDEV =	0.0000		STDDEV =	0.0000		
		COEVAR =	22.8484		COEVAR =	0.0000		COEVAR =	0.0000	COEVAR =	0.0000		COEVAR =	0.0000		
		STDERR =	0.0659		STDERR =	0.0000		STDERR =	0.0000	STDERR =	0.0000		STDERR =	0.0000		
		N =	11		N =	0		N =	0	N =	0		N =	0		
MEDIAN SIZE			361 MM				0 MM					0 MM				0 MM

.....
PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)
.....



.....
AGE-GROWTH ANALYSIS
.....

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

.....
AGE-MATURITY ANALYSIS
.....

** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.982480438
 2) N = 22
 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -5.928927 + 3.38342213 \text{ LOG}_{10}(\text{LENGTH})$
 OR $\text{WEIGHT} = 0.11751E-05 \text{ LENGTH TO THE } 3.38342213$

4) TEST OF REGRESSION COEFFICIENTS:

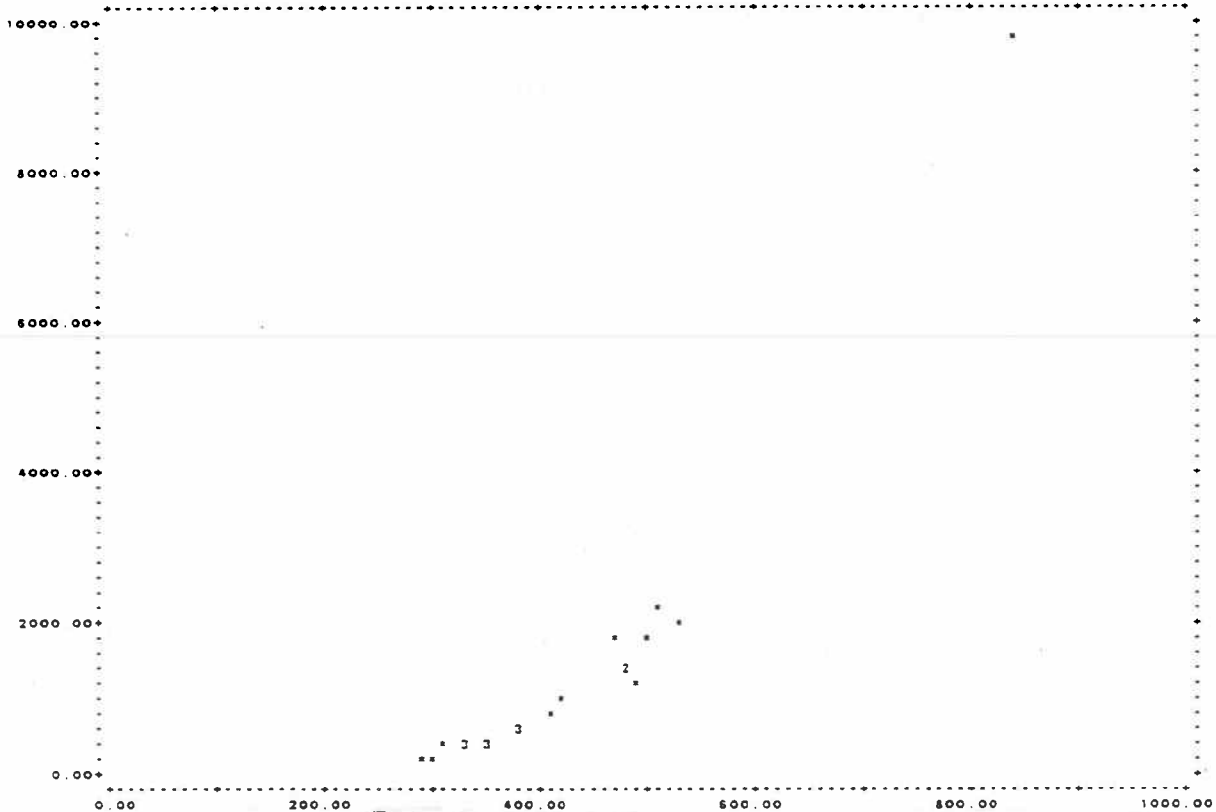
	REGRESSION COEFF.	T	S.D.
INTERCEPT	-5.928927	-22.417175	0.264526
SLOPE	3.383422	33.489955	0.101387

- 5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.606874
 6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.916298
 7) SUM OF X SQUARED = 149.7595 SUM OF SMALL X SQUARED = 0.251984
 8) SUM OF Y SQUARED = 190.0589 SUM OF SMALL Y SQUARED = 2.953478
 9) SUM OF XY = 188.1084 SUM OF SMALL XY = 0.855087

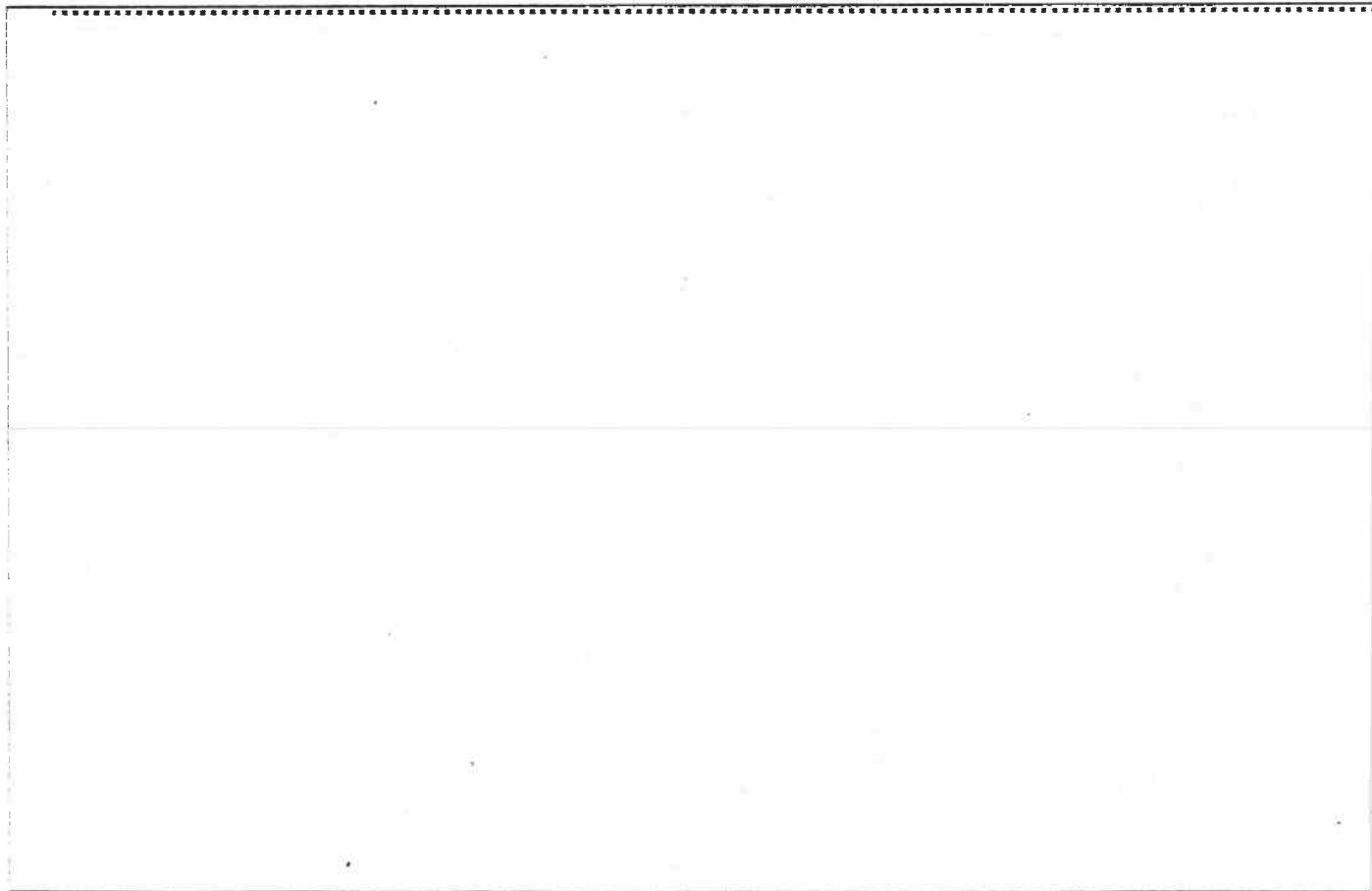
10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ	F
REGRESS	1	2.90167141	2.90167141	1120.23828125
ERROR	20	0.05180454	0.00259023	
TOTAL	21	2.9534780		

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



4900-4999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5000-5099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5100-5199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5200-5299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5300-5399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5400-5499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5500-5599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5600-5699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5700-5799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5800-5899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
5900-5999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6000-6099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6100-6199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6200-6299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6300-6399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6400-6499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6500-6599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6600-6699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6700-6799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6800-6899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
6900-6999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7000-7099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7100-7199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7200-7299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7300-7399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7400-7499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7500-7599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7600-7699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7700-7799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7800-7899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
7900-7999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8000-8099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8100-8199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8200-8299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8300-8399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8400-8499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8500-8599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8600-8699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8700-8799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8800-8899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
8900-8999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9000-9099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9100-9199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9200-9299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9300-9399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9400-9499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9500-9599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9600-9699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
9700-9799	1	4.5	1.66	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00
TOTALS	22	100.0		22	0	0.0		0	0	0.0		0	0	0.0	
COND. FACTORS SUMMARY		MEAN =	1.2604			MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000
		STDEV =	0.1984			STDEV =	0.0000			STDEV =	0.0000			STDEV =	0.0000
		CDEVAR =	15.8212			CDEVAR =	0.0000			CDEVAR =	0.0000			CDEVAR =	0.0000
		STDERR =	0.0332			STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000
		N =	22			N =	0			N =	0			N =	0
MEDIAN SIZE			801 G				0 G				0 G				0 G



800-819	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
820-839	1	2.8	1.86	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	36	100.0	-	22	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY		MEAN =	1.2804		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDEY =	0.1984		STDEY =	0.0000			STDEY =	0.0000			STDEY =	0.0000		
		CDEVAR =	15.8212		CDEVAR =	0.0000			CDEVAR =	0.0000			CDEVAR =	0.0000		
		STDERR =	0.0332		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	22		N =	0			N =	0			N =	0		
MEDIAN SIZE		361 MM			0 MM				0 MM				0 MM			

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200-299	2	5.1	1.20	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300-399	2	5.1	1.18	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-499	5	22.7	1.10	5	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500-599	2	5.1	1.10	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600-699	1	4.5	1.26	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700-799	1	4.5	1.15	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800-899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900-999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1099	1	4.5	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1399	1	4.5	1.08	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1400-1499	2	5.1	1.31	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1500-1599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1600-1699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1700-1799	1	4.5	1.89	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1800-1899	1	4.5	1.49	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1900-1999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2000-2099	1	4.5	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2100-2199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2200-2299	1	4.5	1.82	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2300-2399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2400-2499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2500-2599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2600-2699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2700-2799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2800-2899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
2900-2999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3000-3099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3100-3199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3200-3299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3300-3399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3400-3499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3500-3599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3600-3699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3700-3799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3800-3899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
3900-3999	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4000-4099	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4100-4199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4200-4299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4300-4399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4400-4499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4500-4599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4600-4699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4700-4799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
4800-4899	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0

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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	GONAD WT(G)	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
J 71	DV	288	297				SC	ES	Y 1644	99 6 89	PEACJ	KM03.6	0	0	(27-05)
H 428	DV	295	292				SC	ES	Y 8364	27 6 89	PEACJ	KM01.0	0	0	
J1453	DV	211						ES		15 8 89	PEACJ	KM13.7	0	0	
J 180	DV	408	786					ES	Y 5242	99 6 89	PEACJ	KM03.1	0	0	(28-05)
J 851	DV	255						ES	Y 4587	4 6 88	PEACJ	KM13.7	0	0	
J2814	DV	366						ES	Y 7434	23 6 89	PEACJ	KM11.1	0	0	
J2165	DV	215						ES		21 6 89	PEACJ	KM12.7	0	0	
J1408	DV	514	2200					ES	Y 4937	7 8 89	PEACJ	KM15.0	0	0	
J1281	DV	265						ES	Y 4825	5 6 89	PEACJ	KM12.7	0	0	
J1098	DV	298						ES	Y 4700	4 8 89	PEACJ	KM14.3	0	0	
J1234	DV	250						ES	Y 4828	5 6 89	PEACJ	KM12.7	0	0	
J 405	DV	489	1740					ES	Y 4285	3 6 89	PEACJ	KM14.9	0	0	
J2893	DV	287						ES	Y 7848	24 6 88	PEACJ	KM11.4	0	0	
J2016	DV	347	485					ES	Y 4175	20 6 89	PEACJ	KM11.9	0	0	
J1886	DV	531	2010					ES	Y 4077	19 6 88	PEACJ	KM14.3	0	0	
J1886	DV	307	376					ES	Y 4146	20 6 89	PEACJ	KM12.8	0	0	
J1207	DV	498	1840					ES	Y 4776	5 6 89	PEACJ	KM12.8	0	0	
J3120	DV	383	472					ES	Y 7885	25 5 89	PEACJ	KM10.8	0	0	
J 485	DV	424	1020					ES	Y 4949	6 6 89	PEACJ	KM14.4	0	0	
J 840	DV	300						ES	Y 4582	4 5 89	PEACJ	KM13.7	0	0	
J3181	DV	483	1300					ES	Y 7874	26 6 89	PEACJ	KM09.9	0	0	
J3233	DV	334	414					ES	Y 7903	23 6 89	PEACJ	KM10.9	0	0	
J1287	DV	588						ES	Y 4832	5 6 89	PEACJ	KM12.7	0	0	
J3171	DV	351	438					ES	Y 7747	28 6 89	PEACJ	KM09.9	0	0	
J2244	DV	498						ES	Y 7148	21 6 88	PEACJ	KM12.2	0	0	
J1289	DV	328	410					ES	Y 4834	5 6 89	PEACJ	KM12.7	0	0	
J2892	DV	398						ES	Y 7845	24 6 89	PEACJ	KM11.4	0	0	
J 478	DV	395	976					ES	Y 4888	12 8 89	PEACJ	KM12.3	0	0	
J1210	DV	484	1480					ES	Y 4779	5 6 89	PEACJ	KM12.8	0	0	
J2266	DV	346						ES	Y 7170	21 6 88	PEACJ	KM12.2	0	0	
J1113	DV	482	1480					ES	Y 4587	5 6 89	PEACJ	KM13.2	0	0	
H 307	DV	375	588				SC	ES	Y 8251	25 6 89	PEACJ	KM04.9	0	0	
J2431	DV	838	9760					ES	Y 7291	22 6 89	PEACJ	KM12.0	0	0	
J3222	DV	327	171					ES	Y 7910	26 6 89	PEACJ	KM09.3	0	0	
J2243	DV	467						ES	Y 7148	21 6 89	PEACJ	KM12.2	0	0	
J1985	DV	378	882					ES	Y 4145	20 6 89	PEACJ	KM12.8	0	0	

University of Alberta

*****NOTE** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)**NOTE**

SPECIES = DV
 LOCATION= PEACJ SITE(S)=KM03.6 KM01.0 KM13.7 KM03.1 KM11.1 KM12.7 KM15.0 KM14.3 KM14.9 KM11.4
 KM11.9 KM12.6 KM10.8 KM14.4 KM08.9 KM10.9 KM12.2 KM12.2 KM13.2 KM04.9
 KM12.0 KM08.3

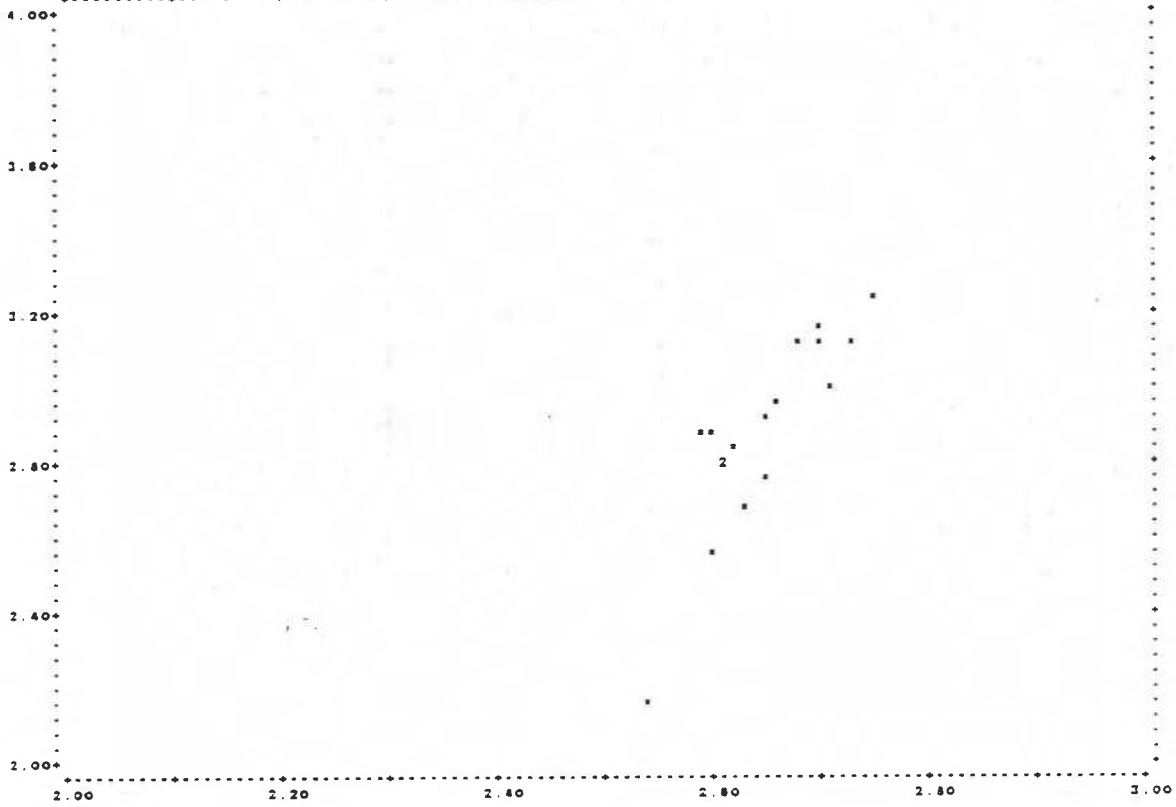
LENGTH - WEIGHT ANALYSIS

NO FISH NOT SEXED = 36

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
200- 219	2	5.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 238	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 258	2	5.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	1	2.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	4	11.1	1.20	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	2	5.6	1.30	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	3	8.3	1.12	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	4	11.1	1.07	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	4	11.1	1.18	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	1	2.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	1	2.8	1.15	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	1	2.8	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	2	5.6	1.89	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	5	13.9	1.30	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	1	2.8	1.82	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	1	2.8	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
560- 579	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
580- 599	1	2.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 619	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
620- 639	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
640- 659	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
660- 679	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
680- 699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 719	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
720- 739	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
740- 759	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
760- 779	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
780- 799	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0

PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



AGE-GROWTH ANALYSIS

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

LENGTH - WEIGHT REGRESSION

- 1) THE COEFF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.758840220
 2) N = 17
 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS $\text{LOG}_{10}(\text{WEIGHT}) = -7.873808 + 3.88503208 \text{ LOG}_{10}(\text{LENGTH})$
 OR $\text{WEIGHT} = 0.21203E-07 \text{ LENGTH TO THE } 3.88503208$

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-7.873808	-4.984083	1.536539
SLOPE	3.885032	6.872080	0.578890

5) $\text{LOG}_{10}(\text{LENGTH})$ MEANS = 2.849143

6) $\text{LOG}_{10}(\text{WEIGHT})$ MEANS = 2.883315

7) SUM OF X SQUARED = 118.3883

8) SUM OF Y SQUARED = 142.3883

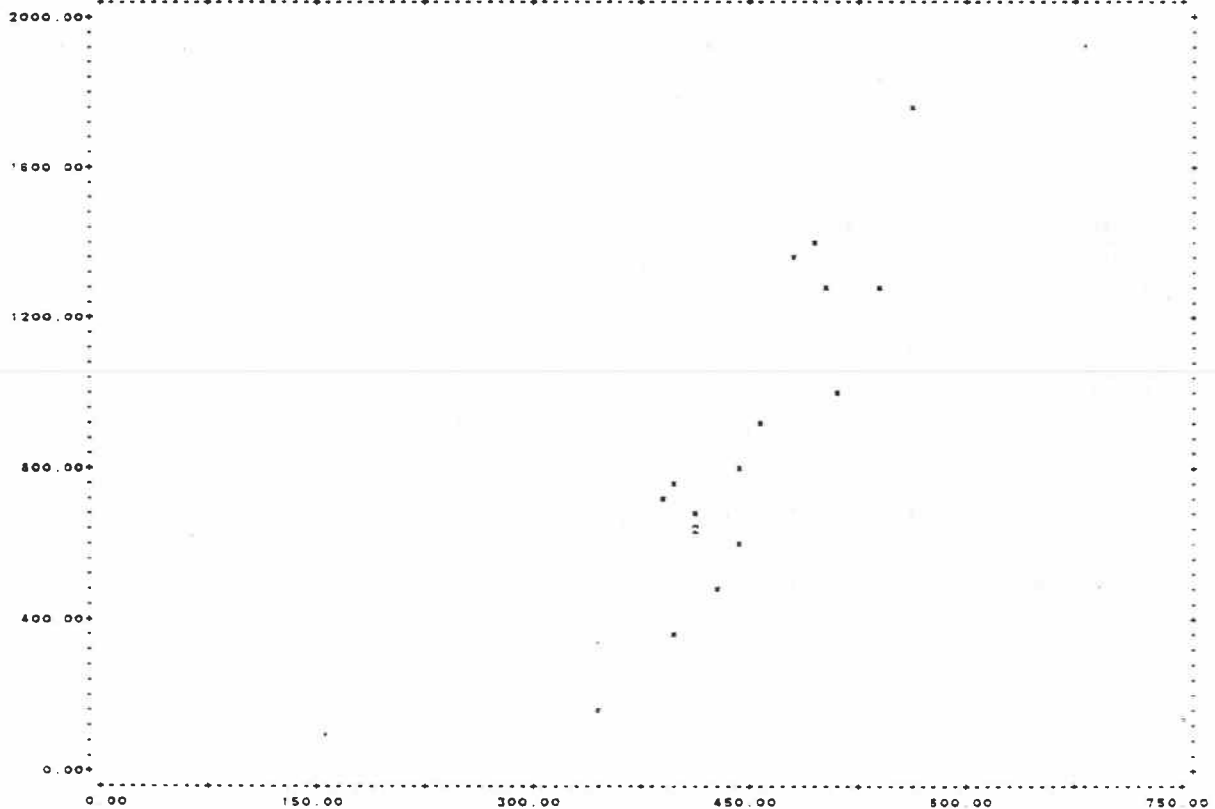
9) SUM OF XY = 130.0545

SUM OF SMALL X SQUARED = 0.050980
 SUM OF SMALL Y SQUARED = 1.068727
 SUM OF SMALL XY = 0.203186

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ	F
REGRESS	1	0.80958122	0.80958122	47.22508240
ERROR	15	0.28714546	0.01714303	
TOTAL	16	1.0667267		

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



University of Alberta

=====
 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE***
 =====

SPECIES = OY
 LOCATION = HALFO SITE(S) = KMO4.2 KMO1.2 KMO2.1 KMO3.5 KMO3.9

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 19

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
280- 299	1	5.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	1	5.3	0.36	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
360- 379	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	2	10.5	0.90	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	4	21.1	0.89	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	1	5.3	0.82	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440- 459	3	15.8	0.88	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460- 479	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
480- 499	3	15.8	1.18	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 519	2	10.5	0.88	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
520- 539	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
540- 559	1	5.3	0.82	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
560- 579	1	5.3	0.98	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	19	100.0	-	17	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 0.8897 STDEY = 0.2411 COEVAR = 26.7990 STDERR = 0.0553 N = 17				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			444 MM				0 MM				0 MM				0 MM	

WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
100- 199	1	5.9	0.38	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 399	1	5.9	0.56	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 599	1	5.9	0.82	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600- 699	4	23.5	0.87	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700- 799	2	11.8	1.20	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800- 899	1	5.9	0.93	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900- 999	1	5.9	0.97	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1099	1	5.9	0.79	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1199	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1299	2	11.8	0.92	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1399	1	5.9	1.22	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1400-1499	1	5.9	1.18	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1500-1599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1600-1699	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1700-1799	1	5.9	0.98	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	17	100.0	-	17	0	0.0	-	0	0	0.0	-	0	0	0.0	-	0
COND. FACTORS SUMMARY			MEAN = 0.8897 STDEY = 0.2411 COEVAR = 26.7990 STDERR = 0.0653 N = 17				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0				MEAN = 0.0000 STDEY = 0.0000 COEVAR = 0.0000 STDERR = 0.0000 N = 0	
MEDIAN SIZE			776 G				0 G				0 G				0 G	

** NO AGE-GROWTH ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

AGE-MATURITY ANALYSIS

** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **

University of Alberta

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO	SP	LENGTH (MM)	WEIGHT (G)	SEX- MAT.	GONAD WT(G)	AGE	AGE METH	CAPT METH	MESH	TAG NO	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
C 497	DV	238						ES		Y14016	13 10 89	HALFO	KM04.2	0	0	
C 782	DV	496	1410					ES			14 10 89	HALFO	KM01.2	1	0	
C 496	DV	346	150					ES		Y14017	13 10 89	HALFO	KM04.2	0	0	
C 697	DV	392	740					ES		Y14172	14 10 89	HALFO	KM02.1	0	0	
C 491	DV	431	500					ES		Y14013	13 10 89	HALFO	KM04.2	0	0	
C 632	DV	415	680					ES		Y14116	14 10 89	HALFO	KM03.5	0	0	
C 615	DV	601	1280					ES		Y14104	14 10 89	HALFO	KM03.5	0	0	
C 568	DV	400	750					ES		Y14088	13 10 89	HALFO	KM03.9	0	0	
C 495	DV	396	350					ES		Y14016	13 10 89	HALFO	KM04.2	0	0	
C 809	DV	566	1780					ES		Y13132	15 10 89	HALFO	KM01.2	0	0	TRANS REL KM105
C 494	DV	444	800					ES		Y14015	13 10 89	HALFO	KM04.2	0	0	
C 539	DV	508	1000					ES		Y14047	13 10 89	HALFO	KM03.9	0	0	
C 781	DV	444	810					ES			14 10 89	HALFO	KM01.2	1	0	
C 464	DV	540	1230					ES		Y13862	12 10 89	HALFO	KM01.2	0	0	RELEASED KM000
C 453	DV	454	910					ES		Y13961	12 10 89	HALFO	KM01.2	0	0	RELEASED KM000
C 898	DV	412	640					ES		Y14171	14 10 89	HALFO	KM02.1	0	0	
C 587	DV	411	650					ES		Y14067	13 10 89	HALFO	KM03.9	0	0	
C 780	DV	484						ES		Y14239	14 10 89	HALFO	KM01.2	0	0	
C 700	DV	483	1375					ES		Y14174	14 10 89	HALFO	KM02.1	0	0	

NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA - NEW SET OF DATA
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PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX	COND MAT.	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
H 42	OV	464.						ES		Y 8036	23 8 88	HALFJ	KM02.5	0	0	
H 33	OV	375.						ES		Y 8030	23 8 88	HALFJ	KM02.5	0	0	
H 27	OV	478.						ES		Y 8048	23 8 88	HALFJ	KM02.5	0	0	

*****NOTE*** SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED)***NOTE*****

SPECIES = OV
 LOCATION = HALFJ SITE(S) = KM02.5

LENGTH - WEIGHT ANALYSIS

NO. FISH NOT SEXED = 3

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N	# FISH	%	MEAN CP	N
360-379	1	33.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380-399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-419	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420-439	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
440-459	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
460-479	2	66.7	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	3	100.0		0	0	0.0		0	0	0.0		0	0	0.0		0
COND FACTORS SUMMARY			MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000	
			STDDEV = 0.0000				STDDEV = 0.0000				STDDEV = 0.0000				STDDEV = 0.0000	
			COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000	
			STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000	
			N = 0				N = 0				N = 0				N = 0	
MEDIAN SIZE			466 MM				0 MM				0 MM				0 MM	

***** SAMPLE SIZE SMALLER THAN 10 NO REGRESSION CALCULATED AND NO LENGTH-WEIGHT PLOTS (ACTUAL N = 0) *****

AGE-GROWTH ANALYSIS

SSIC RLL1 PRIGL P150 T4305 PACKAGE=LOOSE
Batch.Low.External/Commercial
Last signon was at 17:28:01, Fri Feb 23/90
User RLL1 signed on at 18:28:40, Fri Feb 23/90
Warning -- the PWCONFIRM option will be removed shortly.
SET ECHO=OFF TRIM=ON

SCREATE -FSHSC SIZE=40P
File "-FSHSC" has been created.

SR FISHLOAD 9=FSHCNTRL 10=SSCLHnd.DTA 11=-FSHSC
18:28:41

UNIVERSITY OF ALABAMA

```
*****  
*****  
*****  
*** FISHERIES DATA ANALYSIS ***  
*** ----- ***  
*** PROGRAMS WRITTEN BY ***  
*** G. ASH SUMMER, 1978 ***  
*****  
*****
```

AGE-GROWTH ANALYSIS

 ALL GROUPED

AGE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	OLDER

LENGTH (MM)																	
MAX				375.0		361.0											
MEAN+CI				375.0		361.0											
MEAN				375.0		361.0											
MEAN-CI				375.0		361.0											
MIN				375.0		361.0											
NUMBER				1.		1.											
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WEIGHT (G)																	
MAX				662.0		662.0											
MEAN+CI				662.0		662.0											
MEAN				662.0		662.0											
MEAN-CI				662.0		662.0											
MIN				662.0		662.0											
NUMBER				1.		1.											
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CONDITION																	
MAX	0.000	0.000	0.000	1.635	0.000	1.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN+CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	1.635	0.000	1.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN-CI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	1.635	0.000	1.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NUMBER				1.		1.											
SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STERR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

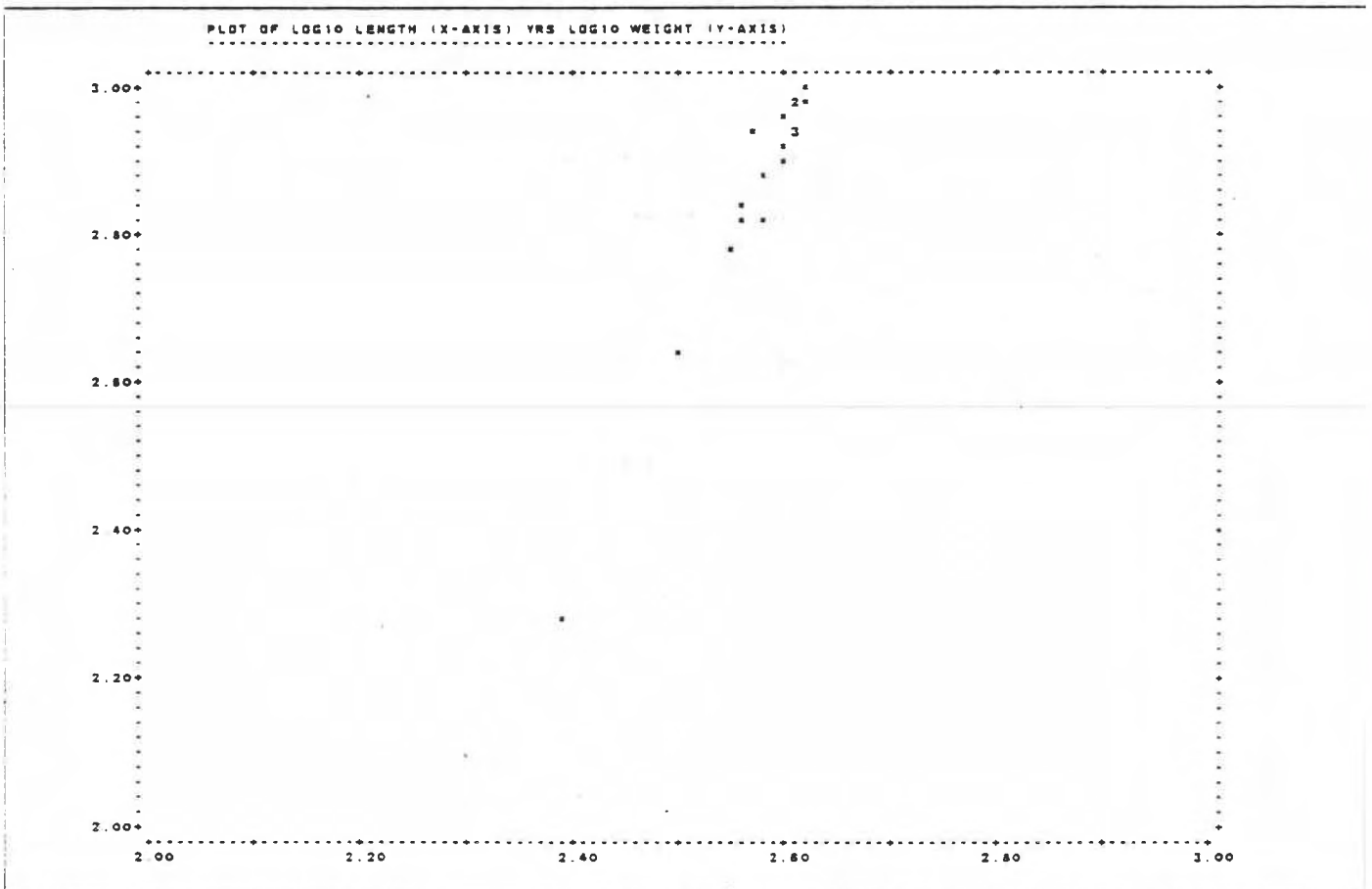
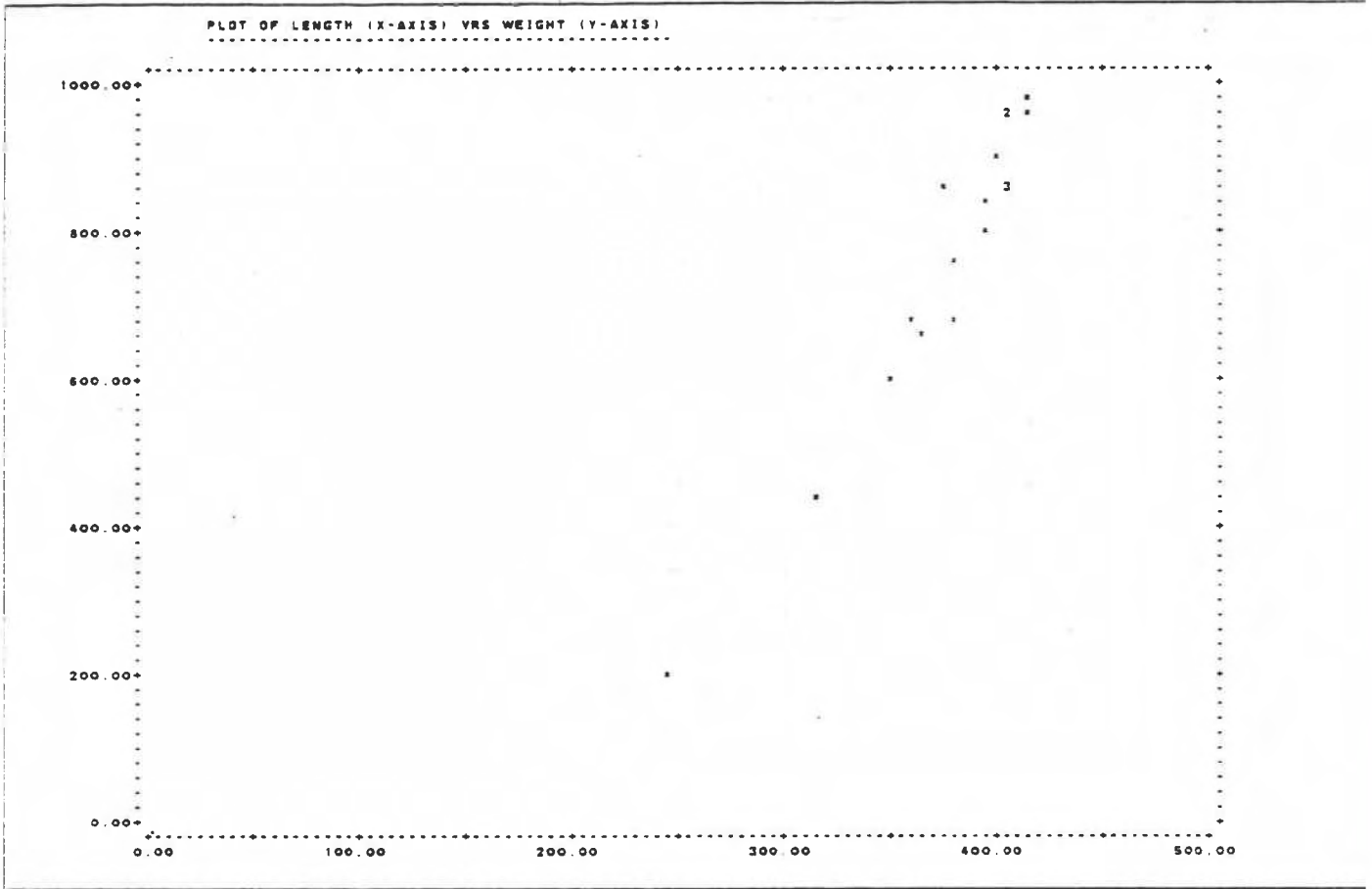
NO MALES IN AGED SAMPLE

NO FEMALES IN AGED SAMPLE

NO SEX INDETERMINABLE IN AGED SAMPLE

AGE-MATURITY ANALYSIS

 ** NO AGE-MATURITY ANALYSIS SINCE NO FISH AGED IN THIS SAMPLE **



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
150-199	1	5.6	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200-249	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250-299	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300-349	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350-399	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400-449	1	5.6	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450-499	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500-549	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550-599	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
600-649	1	5.6	1.41	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650-699	3	16.7	1.34	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
700-749	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
750-799	1	5.6	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
800-849	2	11.1	1.34	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
850-899	4	22.2	1.38	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900-949	1	5.6	1.41	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
950-999	4	22.2	1.42	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	18	100.0		18	0	0.0		0	0	0.0		0	0	0.0		0
COND. FACTORS SUMMARY		MEAN =	1.3794		MEAN =	0.0000			MEAN =	0.0000			MEAN =	0.0000		
		STDEY =	0.0810		STDEY =	0.0000			STDEY =	0.0000			STDEY =	0.0000		
		COEVAR =	6.5883		COEVAR =	0.0000			COEVAR =	0.0000			COEVAR =	0.0000		
		STDERR =	0.0073		STDERR =	0.0000			STDERR =	0.0000			STDERR =	0.0000		
		N =	18		N =	0			N =	0			N =	0		
MEDIAN SIZE			851 G				0 G					0 G				0 G

LENGTH - WEIGHT REGRESSION

- 1) THE COEF. OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.970432401
- 2) N = 18
- 3) THE LENGTH - WEIGHT REGRESSION EQUATION IS LOG10(WEIGHT) = -4.835791 + 2.99015236 LOG10(LENGTH)
OR WEIGHT = 0.14585E-04 LENGTH TO THE 2.99015236

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF	T	S.D.
INTERCEPT	-4.835791	-14.384593	0.336085
SLOPE	2.990152	22.915573	0.130486

5) LOG10(LENGTH) MEANS = 2.575081

6) LOG10(WEIGHT) MEANS = 2.864083

7) SUM OF X SQUARED = 119.4115

8) SUM OF Y SQUARED = 148.1400

9) SUM OF XY = 132.9125

SUM OF SMALL X SQUARED = 0.082889

SUM OF SMALL Y SQUARED = 0.485443

SUM OF SMALL XY = 0.157578

10) ANALYSIS OF VARIANCE TABLE:

SOURCE	D.F.	SUM SQ.	MEAN SQ.	F
REGRESS	1	0.47108948	0.47108948	525.12352515
ERROR	16	0.01438363	0.00089710	
TOTAL	17	0.4854431		

02144 AG	343		ES	Y15537	17 10 89	PEACO	KM09.9	0	0
02165 AG	387		ES	Y15554	17 10 89	PEACO	KM10.5	0	0
02182 AG	283		ES	Y15561	17 10 89	PEACO	KM10.5	0	0
02227 AG	358		ES	Y15588	19 10 89	PEACO	KM10.5	0	0
01934 AG	308		ES	Y15390	16 10 89	PEACO	KM10.5	0	0
02181 AG	380	784	ES	Y15550	17 10 89	PEACO	KM10.5	0	0
01932 AG	384	848	SC	Y15388	16 10 89	PEACO	KM10.5	0	0
02169 AG	387	808	ES	Y15667	17 10 89	PEACO	KM10.5	0	0
01937 AG	382		ES	Y15393	16 10 89	PEACO	KM10.5	0	0
02167 AG	400	904	ES	Y15555	17 10 89	PEACO	KM10.5	0	0
02164 AG	313		ES	Y15553	17 10 89	PEACO	KM10.5	0	0
01926 AG	414	964	SC	Y15383	18 10 89	PEACO	KM10.5	0	0
01868 AG	365		ES		15 10 89	PEACO	KM10.7	1	0
01838 AG	244	194	ES		14 10 89	PEACO	KM10.9	0	0
01842 AG	394		ES	Y15321	14 10 89	PEACO	KM10.9	0	0
01841 AG	317	442	ES	Y15320	14 10 89	PEACO	KM10.9	0	0
01778 AG	384		ES	Y15285	14 10 89	PEACO	KM10.9	0	0
01840 AG	380	674	ES	Y15319	14 10 89	PEACO	KM10.9	0	0
01782 AG	345		ES	Y15279	14 10 89	PEACO	KM10.9	0	0
01790 AG	215		ES		14 10 89	PEACO	KM10.9	0	0
01732 AG	351	610	ES	Y15239	14 10 89	PEACO	KM11.2	0	0
02020 AG	320		ES	Y15450	6 10 89	PEACO	KM11.2	0	0
01734 AG	365	654	ES	Y15240	14 10 89	PEACO	KM11.2	0	0
01970 AG	306		ES	Y15416	16 10 89	PEACO	KM11.2	0	0
02037 AG	218		ES		16 10 89	PEACO	KM11.2	0	0
01689 AG	386		ES	Y15205	13 10 89	PEACO	KM11.3	0	0
01885 AG	216		ES		13 10 89	PEACO	KM11.3	0	0
01888 AG	393		ES	Y15206	13 10 89	PEACO	KM11.3	0	0
01893 AG	388		ES	Y15210	13 10 89	PEACO	KM11.3	0	0
01887 AG	382		ES	Y15204	13 10 89	PEACO	KM11.3	0	0
01892 AG	388		ES	Y15209	13 10 89	PEACO	KM11.3	0	0
01622 AG	195		ES		13 10 89	PEACO	KM11.6	0	0
01545 AG	381		ES	Y16096	12 10 89	PEACO	KM12.1	0	0
C 812 AG	404	984	ES	Y13775	9 10 89	PEACO	KM12.4	0	0
C 813 AG	405	860	ES	Y13776	9 10 89	PEACO	KM12.4	0	0
C 812 AG	404	984	ES	Y13775	9 10 89	PEACO	KM12.4	0	0
C 813 AG	405	860	ES	Y13776	9 10 89	PEACO	KM12.4	0	0
C 317 AG	344	20	ES	Y13880	11 10 89	PEACO	KM12.6	0	0
C 36 AG	192		ES		9 10 89	PEACO	KM12.6	0	0
O 597 AG	381		ES	Y13865	9 10 89	PEACO	KM12.9	0	0
O 622 AG	364		ES	Y13862	9 10 89	PEACO	KM12.9	0	0
O 528 AG	378		ES	Y13661	9 10 89	PEACO	KM13.1	0	0
O1068 AG	236		ES		11 10 89	PEACO	KM13.2	0	0
O 652 AG	414	964	ES	Y13775	9 10 89	PEACO	KM13.3	0	0
O 651 AG	404	860	ES	Y13776	9 10 89	PEACO	KM13.3	0	0

 NOTE SEPARATE ANALYSIS FOR EACH SPECIES AND EACH LOCATION (SITES AT EACH LOCATION GROUPED) ***NOTE***

SPECIES = AG
 LOCATION= PEACO SITE(S)= KM02.6 KM04.7 KM05.9 KM06.0 KM06.3 KM06.5 KM06.7 KM06.8 KM07.1 KM07.8 KM08.0 KM08.3 KM08.5 KM08.9 KM09.1 KM09.2 KM09.4 KM09.9 KM10.5 KM10.7 KM10.9 KM11.2 KM11.3 KM11.6 KM12.1 KM12.4 KM12.6 KM12.9

LENGTH - WEIGHT ANALYSIS

NO FISH NOT SEXED = 153

LENGTH FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = MM	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
180- 199	2	1.3	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 219	11	7.1	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
220- 239	12	7.8	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
240- 259	10	6.5	1.34	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
260- 279	1	0.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
280- 299	1	0.6	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 319	12	7.8	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
320- 339	10	6.5	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
340- 359	16	10.4	1.41	1	0	0.0	0.00	0	1	100.0	0.00	0	0	0.0	0.00	0
360- 379	27	17.5	1.48	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
380- 399	31	20.1	1.32	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 419	15	9.7	1.37	8	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
420- 439	6	3.9	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	154	100.0		18	0	0.0		0	1	100.0		0	0	0.0		0
COND. FACTORS SUMMARY			MEAN = 1.3794				MEAN = 0.0000				MEAN = 0.0000				MEAN = 0.0000	
			STDDEV = 0.0910				STDDEV = 0.0000				STDDEV = 0.0000				STDDEV = 0.0000	
			COEVAR = 8.5883				COEVAR = 0.0000				COEVAR = 0.0000				COEVAR = 0.0000	
			STDERR = 0.0073				STDERR = 0.0000				STDERR = 0.0000				STDERR = 0.0000	
			N = 18				N = 0				N = 0				N = 0	
MEDIAN SIZE			382 MM				0 MM				351 MM				0 MM	

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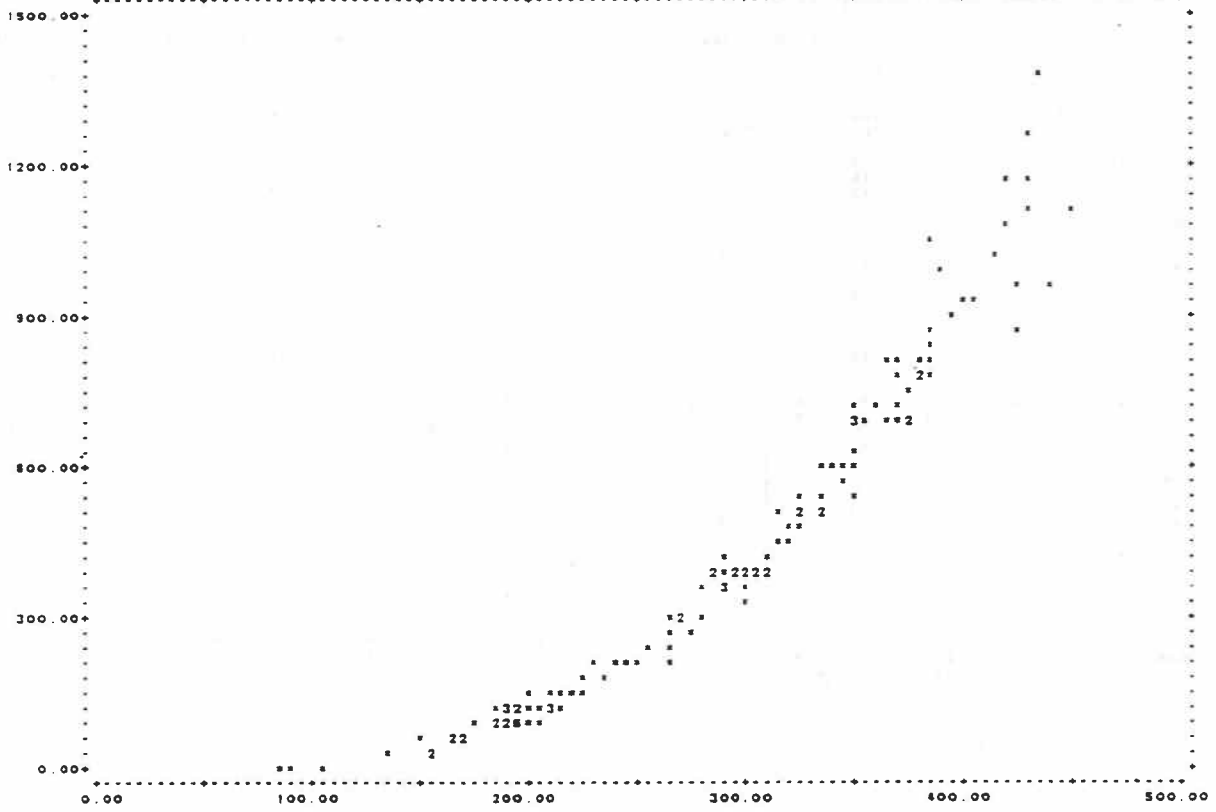
PRINT-OUT OF RAW DATA TO BE ANALYSED

SAMPLE NO.	SP.	LENGTH (MM)	WEIGHT (G)	SEX MAT.	CONAD WT(G)	AGE	AGE METH	CAPT METH	MESH (CM)	TAG NO.	DATE DAY MO YR	LOCATION	SITE	CAPT CODE	PRES CODE	COMMENTS
M 38	AG	381	682			5	SC	ES			15 10 89	PEACD		1	O	MERCURY ANALYSIS
M 47	AG	375	682			3	SC	ES			17 10 89	PEACD		1	O	
02764	AG	341						ES		Y15725	23 10 89	PEACD	KM02.6	0	O	MERCURY ANALYSIS
02718	AG	357						ES		Y15724	22 10 89	PEACD	KM04.7	0	O	
02676	AG	357						ES		Y15723	22 10 89	PEACD	KM05.9	0	O	
C 792	AG	246						GN	6 4		21 10 89	PEACD	KM06.0	0	O	
02616	AG	327						ES		Y15721	22 10 89	PEACD	KM06.1	0	O	
02611	AG	369						ES		Y15719	22 10 89	PEACD	KM06.1	0	O	
02644	AG	372						ES		Y15722	22 10 89	PEACD	KM06.1	0	O	
02615	AG	315						ES		Y15720	22 10 89	PEACD	KM06.1	0	O	
02929	AG	347						ES		Y15785	25 10 89	PEACD	KM06.3	0	O	
02907	AG	362						ES		Y15783	25 10 89	PEACD	KM06.3	0	O	
02899	AG	367						ES		Y15782	25 10 89	PEACD	KM06.1	0	O	
02928	AG	388						ES		Y15784	25 10 89	PEACD	KM06.3	0	O	
02899	AG	400						ES		Y15781	25 10 89	PEACD	KM06.3	0	O	
C 791	AG	367						GN		Y15521	20 10 89	PEACD	KM06.4	0	O	
02572	AG	246						ES			22 10 89	PEACD	KM06.5	0	O	
02581	AG	364						ES		Y15710	22 10 89	PEACD	KM06.5	0	O	
02587	AG	246						ES		Y15712	22 10 89	PEACD	KM06.5	0	O	
02582	AG	412						ES		Y15711	22 10 89	PEACD	KM06.5	0	O	
02567	AG	340						ES		Y15717	22 10 89	PEACD	KM06.5	0	O	
02570	AG	358						ES		Y15714	22 10 89	PEACD	KM06.5	0	O	
02571	AG	388						ES		Y15715	22 10 89	PEACD	KM06.5	0	O	
02569	AG	398						ES		Y15713	22 10 89	PEACD	KM06.5	0	O	
02574	AG	324						ES		Y15716	22 10 89	PEACD	KM06.5	0	O	
02430	AG	227						ES			21 10 89	PEACD	KM06.6	0	O	
02434	AG	331						ES		Y15888	21 10 89	PEACD	KM06.6	0	O	
02341	AG	404						ES			21 10 89	PEACD	KM06.6	0	O	
02452	AG	374						ES		Y15893	21 10 89	PEACD	KM06.6	0	O	
02487	AG	399						ES		Y15702	21 10 89	PEACD	KM06.6	0	O	
02456	AG	436						ES			21 10 89	PEACD	KM06.6	0	O	
02425	AG	317						ES			21 10 89	PEACD	KM06.6	0	O	
02486	AG	385						ES		Y15701	21 10 89	PEACD	KM06.6	0	O	
02332	AG	377						ES		Y15672	20 10 89	PEACD	KM06.6	0	O	
02437	AG	377						ES		Y15690	21 10 89	PEACD	KM06.6	0	O	
02334	AG	326						ES		Y15671	20 10 89	PEACD	KM06.6	0	O	
02446	AG	411						ES		Y15691	21 10 89	PEACD	KM06.6	0	O	
02336	AG	207						ES			20 10 89	PEACD	KM06.6	0	O	
02340	AG	393						ES		Y15677	21 10 89	PEACD	KM06.6	0	O	
02331	AG	308						ES		Y15670	20 10 89	PEACD	KM06.6	0	O	
02431	AG	423						ES		Y15687	21 10 89	PEACD	KM06.6	0	O	
02335	AG	234						ES			20 10 89	PEACD	KM06.6	0	O	
02495	AG	230						ES			21 10 89	PEACD	KM06.6	0	O	
02444	AG	231						ES			21 10 89	PEACD	KM06.6	0	O	
02505	AG	397						ES			21 10 89	PEACD	KM06.6	0	O	
02337	AG	204						ES		Y15709	21 10 89	PEACD	KM06.6	0	O	
02456	AG	428						ES			20 10 89	PEACD	KM06.6	0	O	
02445	AG	207						ES		Y15894	21 10 89	PEACD	KM06.6	0	O	
02479	AG	376						ES		Y15698	21 10 89	PEACD	KM06.7	0	O	

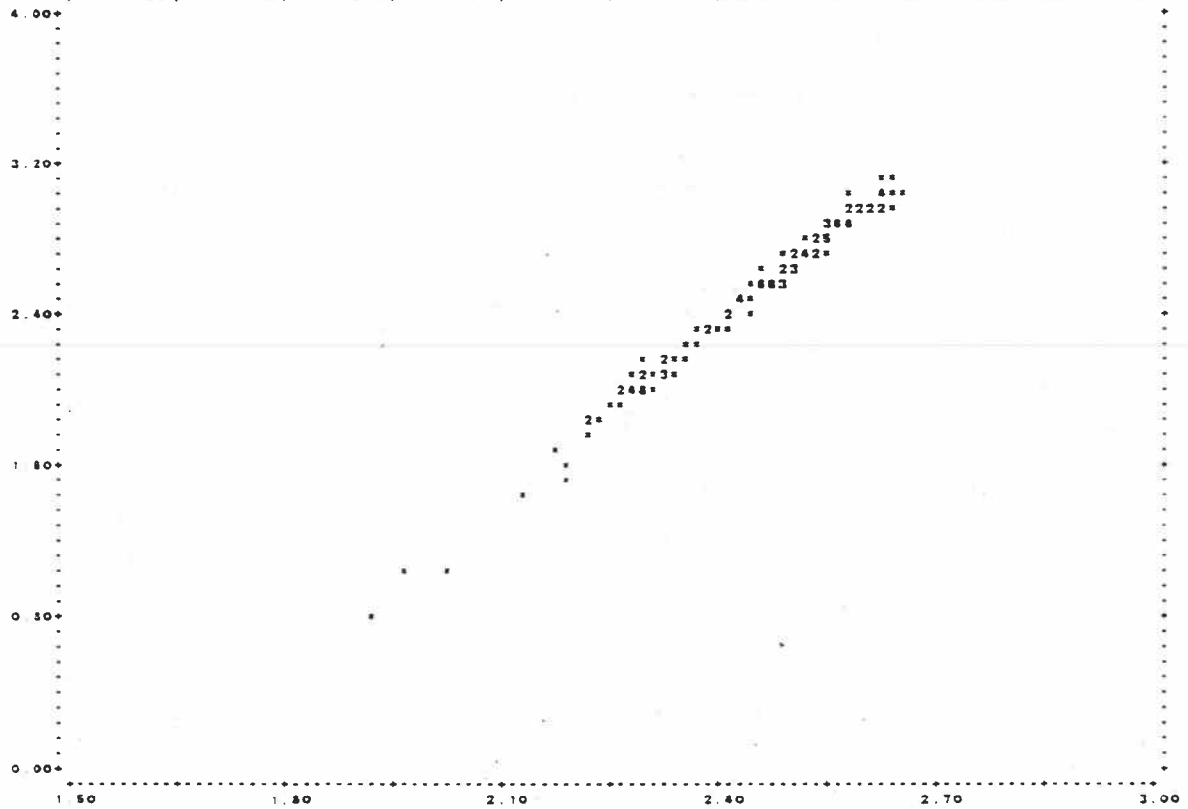
02833	AG	395						ES		Y15744	25 10 89	PEACD	KM06.7	0	O	
02484	AG	331						ES		Y15885	21 10 89	PEACD	KM06.7	0	O	
02488	AG	252						ES		Y15698	21 10 89	PEACD	KM06.7	0	O	
02481	AG	299						ES		Y15697	21 10 89	PEACD	KM06.7	0	O	
02422	AG	420						ES		Y15888	21 10 89	PEACD	KM07.1	0	O	
02418	AG	407						ES		Y15882	21 10 89	PEACD	KM07.1	0	O	
02420	AG	412						ES		Y15894	21 10 89	PEACD	KM07.1	0	O	
02356	AG	385						ES		Y15678	21 10 89	PEACD	KM07.8	0	O	
02323	AG	210						ES			20 10 89	PEACD	KM08.0	0	O	
02318	AG	372						ES		Y15658	20 10 89	PEACD	KM08.0	0	O	
02322	AG	247						ES		Y18683	20 10 89	PEACD	KM08.0	0	O	
02326	AG	397						ES		Y15665	20 10 89	PEACD	KM08.0	0	O	
02321	AG	234						ES			20 10 89	PEACD	KM08.0	0	O	
02325	AG	357						ES		Y15664	20 10 89	PEACD	KM08.0	0	O	
02315	AG	202						ES			20 10 89	PEACD	KM08.0	0	O	
02314	AG	314						ES		Y15657	20 10 89	PEACD	KM08.0	0	O	
02317	AG	218						ES			20 10 89	PEACD	KM08.0	0	O	
02320	AG	254						ES		Y15661	20 10 89	PEACD	KM08.0	0	O	
02178	AG	261						ES		Y15563	18 10 89	PEACD	KM08.3	0	O	
02173	AG	424						ES		Y15881	18 10 89	PEACD	KM08.5	0	O	
02178	AG	216						ES			18 10 89	PEACD	KM08.5	0	O	
02177	AG	211						ES			18 10 89	PEACD	KM08.3	0	O	
02197	AG	375						ES		Y15880	18 10 89	PEACD	KM08.0	0	O	
02189	AG	318						ES			18 10 89	PEACD	KM08.0	0	O	
02183	AG	342						ES		Y15871	18 10 89	PEACD	KM08.0	0	O	
02188	AG	428						ES		Y15878	18 10 89	PEACD	KM08.0	0	O	
02188	AG	380						ES		Y15573	18 10 89	PEACD	KM08.0	0	O	
02179	AG	294						ES		Y15865	18 10 89	PEACD	KM08.0	0	O	
02187	AG	389						ES		Y15674	18 10 89	PEACD	KM08.0	0	O	
02192	AG	235						ES			18 10 89	PEACD	KM08.0	1	O	
02186	AG	394						ES		Y15577	18 10 89	PEACD	KM08.0	0	O	
02194	AG	315						ES		Y15568	18 10 89	PEACD	KM08.0	0	O	
02181	AG	340						ES		Y15568	18 10 89	PEACD	KM08.0	0	O	
02184	AG	228						ES			18 10 89	PEACD	KM08.0	0	O	
02193	AG	226						ES			18 10 89	PEACD	KM08.0	0	O	
02188	AG	238						ES			18 10 89	PEACD	KM08.0	0	O	
02180	AG	394						ES		Y15567	18 10 89	PEACD	KM08.0	0	O	
02202	AG	329						ES		Y15563	18 10 89	PEACD	KM08.0	0	O	
02191	AG	373						ES		Y15560	18 10 89	PEACD	KM08.0	0	O	
02190	AG	324						ES		Y15566	18 10 89	PEACD	KM08.0	0	O	
03192	AG	392						ES		Y15652	19 10 89	PEACD	KM08.1	0	O	
02188	AG	386						ES		Y15586	17 10 89	PEACD	KM08.2	0	O	
02157	AG	312						ES		Y15586	17 10 89	PEACD	KM08.2	0	O	
02160	AG	326						ES		Y15549	17 10 89	PEACD	KM08.2	0	O	
02156	AG	372						ES		Y15545	17 10 89	PEACD	KM08.2	0	O	
02159	AG	358						ES		Y15548	17 10 89	PEACD	KM08.2	0	O	
02152	AG	301						ES		Y15543	17 10 89	PEACD	KM08.2	0	O	
02153	AG	368						ES		Y15542	17 10 89	PEACD	KM08.2	0	O	
02158	AG	385						ES		Y15547	17 10 89	PEACD	KM08.2	0	O	
03164	AG	408						ES		Y15850	19 10 89	PEACD	KM08.4	0	O	
02147	AG	378						ES		Y15539	17 10 89	PEACD	KM08.9	0	O	
02132	AG	228						ES			17 10 89	PEACD	KM08.9	0	O	
02135	AG	378						ES			17 10 89	PEACD	KM08.9	1	O	
02133	AG	321						ES		Y15530	17 10 89	PEACD	KM08.9	0	O	
02129	AG	373						ES		Y15527	17 10 89	PEACD	KM08.9	0	O	
02134	AG	250						ES		Y15531	17 10 89	PEACD	KM08.9	0	O	
02148	AG	376						ES		Y15541	17 10 89	PEACD	KM08.9	0	O	
02145																

CONFIDENTIAL

PLOT OF LENGTH (X-AXIS) VRS WEIGHT (Y-AXIS)



PLOT OF LOG10 LENGTH (X-AXIS) VRS LOG10 WEIGHT (Y-AXIS)



WEIGHT FREQUENCY DISTRIBUTION

CLASS INTERVAL UNITS = G	ALL GROUPED				MALES				FEMALES				SEX INDETERMINABLE			
	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N	# FISH	%	MEAN CF	N
0- 49	7	5.3	1.12	7	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
50- 99	13	9.9	1.36	13	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
100- 149	18	13.7	1.43	18	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
150- 199	5	3.8	1.50	5	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
200- 249	6	4.6	1.40	6	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
250- 299	6	4.6	1.45	6	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
300- 349	2	1.5	1.34	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
350- 399	15	11.5	1.46	15	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
400- 449	3	2.3	1.52	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
450- 499	4	3.1	1.43	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
500- 549	7	5.3	1.45	7	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
550- 599	3	2.3	1.47	3	1	25.0	1.44	1	0	0.0	0.00	0	0	0.0	0.00	0
600- 649	4	3.1	1.49	4	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
650- 699	7	5.3	1.49	7	1	25.0	1.58	1	0	0.0	0.00	0	0	0.0	0.00	0
700- 749	5	3.8	1.49	5	1	25.0	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0
750- 799	5	3.8	1.44	5	1	25.0	1.39	1	0	0.0	0.00	0	0	0.0	0.00	0
800- 849	4	3.1	1.57	4	0	0.0	0.00	0	1	100.0	1.68	1	0	0.0	0.00	0
850- 899	3	2.3	1.37	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
900- 949	2	1.5	1.40	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
950- 999	3	2.3	1.35	3	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1000-1049	1	0.8	1.41	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1050-1099	2	1.5	1.44	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1100-1149	2	1.5	1.35	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1150-1199	2	1.5	1.54	2	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1200-1249	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1250-1299	1	0.8	1.59	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1300-1349	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
1350-1399	1	0.8	1.70	1	0	0.0	0.00	0	0	0.0	0.00	0	0	0.0	0.00	0
TOTALS	131	100.0		131	4	100.0		4	1	100.0		1	0	0.0		0
COND FACTORS SUMMARY		MEAN = 1.4298			MEAN = 1.4480				MEAN = 1.6529				MEAN = 0.0000			
		STODEV = 0.1565			STODEV = 0.0895				STODEV = 0.0000				STODEV = 0.0000			
		CDEVAR = 10.9448			CDEVAR = 8.1790				CDEVAR = 0.0000				CDEVAR = 0.0000			
		STDERR = 0.0100			STDERR = 0.0447				STDERR = 0.0000				STDERR = 0.0000			
		N = 131			N = 4				N = 1				N = 0			
MEDIAN SIZE		179 G			701 G				826 G				0 G			

LENGTH - WEIGHT REGRESSION

1) THE COEF OF DETERMINATION (R SQUARED) OF THE LENGTH-WEIGHT RELATIONSHIP = 0.98880098

2) N = 131

3) THE LENGTH - WEIGHT REGRESSION EQUATION IS LOG10(WEIGHT) = -5.136228 + 3.11848259 LOG10(LENGTH)
OR WEIGHT = 0.73078E-06 LENGTH TO THE 3.11848259

4) TEST OF REGRESSION COEFFICIENTS:

	REGRESSION COEFF.	T	S.D.
INTERCEPT	-5.136228	-72.238618	0.071103
SLOPE	3.118483	107.104708	0.029116

5) LOG10(LENGTH) MEANS = 2.437588

6) LOG10(WEIGHT) MEANS = 2.485380

7) SUM OF X SQUARED = 781.2202

8) SUM OF Y SQUARED = 824.0940

9) SUM OF XY = 796.0938

SUM OF SMALL X SQUARED = 2.833252

SUM OF SMALL Y SQUARED = 27.863037

SUM OF SMALL XY = 8.835448

10) ANALYSIS OF VARIANCE TABLE

SOURCE	D F	SUM SQ	MEAN SQ	F
REGRESS	1	27.55319214	27.55319214	11471.41796875
ERROR	129	0.30884497	0.00240190	
TOTAL	130	27.8630371		