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THE AGE COMPOSITION OF SALMON FROM THE MIRAMICHI AREA,
NEW BRUNSWICK, CANADA

These tables show the numbers and percentages of the various combinations of smolt age and sea age for a series of samples of salmon collected between 1952 and 1964. The upper figure for each category is the actual number of fish and the lower figure is its percentage in the total sample for that year. The tables are summed horizontally and vertically to give the overall distributions of sea age and smolt age respectively. Only fish spawning for the first time are included.

Two sets of data are given. That for Ft. Escuminac refers to material collected by sampling the catches of the drift-net fishery which operates in the open waters of the Gulf of St. Lawrence off the estuary of the Miramichi River and, to some extent, in the lower part of the estuary itself. In general, regulations prevent the taking of grilse in this fishery, and thus very few of these are included in the sample. Most of those included were probably tagged fish. The other sample, for the Miramichi River, is a mixed sample, including fish taken in the commercial fishery inside the Miramichi estuary, fish from angling catches, and fish caught in counting fences operated for research purposes. The composition of the samples varied considerably in this respect from year to year. Since this commercial fishery also does not usually take grilse, the fluctuations in proportions of grilse in the annual samples are probably due to this cause, and should not be taken as having any biological significance.

LOCALITY	YEAR	SEA AGE	SECT. AGE																
			0	1	2	3	4	5	6	7									
1953	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	0	74	136	1	0	0	0	0	0	0	0	0	0	0	0	211
		0.00	0.00	0.00	25.87	47.55	.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.77
		TOTAL	0	0	74	136	1	0	0	0	0	0	0	0	0	0	0	0	211
1953	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	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	0	0	4	71	0	0	0	0	0	0	0	0	0	0	0	0	75
		0.00	0.00	0.00	1.39	24.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.22
		TOTAL	0	0	4	71	0	0	0	0	0	0	0	0	0	0	0	0	75
1952	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	0	18	322	11	0	0	0	0	0	0	0	0	0	0	0	351
		0.00	0.00	0.00	4.71	84.29	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.88
		TOTAL	0	0	18	322	11	0	0	0	0	0	0	0	0	0	0	0	351
1952	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	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	0	0	2	28	1	0	0	0	0	0	0	0	0	0	0	0	31
		0.00	0.00	0.00	.52	7.32	.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11
		TOTAL	0	0	2	28	1	0	0	0	0	0	0	0	0	0	0	0	31
1952	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCALITY TOTAL	2	16	1645	5506	354	1	0	0	0	0	0	0	0	0	0	0	7524		
SEA AGE 3 INCLUDES	.02	.21	21.86	73.17	4.79	.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
1 FISH OF GREATER SEA AGE																			

LIABILITY YEAR SEA AGE

SHORTAGE

0 1 2 3 4 5 6 7 8 9 10

HIRAJUCHI R

YEAR	SEA AGE	0	1	2	3	4	5	6	7	8	9	10
1964	1	0.00	0.00	10.20	19.26	3.06	0.00	0.00	0.00	0.00	0.00	32.25
	2	1.02	0.00	27.55	30.61	4.08	0.00	0.00	0.00	0.00	0.00	63.26
	3	0.00	0.00	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.08

TOTAL

1.02	0.00	41.83	50.00	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
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1963

0.00	0.00	17.64	51.47	10.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.51
0.00	1.47	7.35	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.11
0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47

TOTAL

0.00	1.47	26.47	61.76	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
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1962

0.00	0.00	12.82	27.40	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.27
0.00	0.00	147	46	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194
0.00	0.00	42.85	13.41	.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.55

TOTAL

0.00	0.00	56.85	69.81	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
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LOCALITY	YEAR	SEASONS									TOTAL	
		0	1	2	3	4	5	6	7	8		
1954	1	0	0	0	1	0	0	0	0	0	0	1
		0.00	0.00	0.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	12.50
	2	0	0	2	5	0	0	0	0	0	0	7
		0.00	0.00	25.00	62.50	0.00	0.00	0.00	0.00	0.00	0.00	87.50
	TOTAL	0	0	2	6	0	0	0	0	0	0	8
	0.00	0.00	25.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
1953	1	0	0	0	0	0	0	0	0	0	0	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2	0	0	3	10	0	0	0	0	0	13	
		0.00	0.00	23.07	76.92	0.00	0.00	0.00	0.00	0.00	100.00	
	TOTAL	0	0	3	10	0	0	0	0	0	13	
	0.00	0.00	23.07	76.92	0.00	0.00	0.00	0.00	0.00	100.00		
LOCALITY TOTAL	3		2	584	952	05	0	0	0	0	1636	
		.18	.12	35.69	58.19	5.80	0.00	0.00	0.00	0.00	100.00	
	TOTAL	0	0	3	10	0	0	0	0	0	13	
	0.00	0.00	23.07	76.92	0.00	0.00	0.00	0.00	0.00	100.00		

STATIONARY SED LOG

	0	1	2	3	4	5	6	7	8	9	10
1958											
1	0	0	0	8	0	0	0	0	0	0	8
	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	0.00	0.00	3.21
2	0	0	48	147	19	0	0	0	0	0	214
	0.00	0.00	19.27	59.03	7.63	0.00	0.00	0.00	0.00	0.00	85.94
3	1	0	10	16	0	0	0	0	0	0	27
	.40	0.00	4.01	6.42	0.00	0.00	0.00	0.00	0.00	0.00	10.84
TOTAL	1	0	58	171	19	0	0	0	0	0	269
	.40	0.00	23.29	68.67	7.63	0.00	0.00	0.00	0.00	0.00	100.00
1957											
1	0	0	0	1	0	0	0	0	0	0	1
	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	1.92
2	0	0	4	43	4	0	0	0	0	0	51
	0.00	0.00	7.69	82.69	7.69	0.00	0.00	0.00	0.00	0.00	98.07
3	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0	0	4	44	4	0	0	0	0	0	52
	0.00	0.00	7.69	84.61	7.69	0.00	0.00	0.00	0.00	0.00	100.00
1956											
1	1	0	5	14	1	0	0	0	0	0	21
	2.17	0.00	10.86	30.43	2.17	0.00	0.00	0.00	0.00	0.00	45.64
2	0	0	4	21	0	0	0	0	0	0	25
	0.00	0.00	8.69	45.65	0.00	0.00	0.00	0.00	0.00	0.00	54.34
3	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	1	0	9	35	1	0	0	0	0	0	46
	2.17	0.00	19.56	76.08	2.17	0.00	0.00	0.00	0.00	0.00	100.00

LUCALITY YEAR SFA AGE SPENT AGE TOTAL

	0	1	2	3	4	5	6	7	8	TOTAL
1955										
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	14.68	63	357	0	0	0	0	420
	0.00	0.00	14.68	62.06	0.00	0.00	0.00	0.00	0.00	66.56
3	0.00	0.00	1	14	0	0	0	0	0	15
	0.00	0.00	.22	3.21	0.00	0.00	0.00	0.00	0.00	3.46
TOTAL	0.00	0.00	14.71	64	371	0	0	0	0	435
	0.00	0.00	14.71	65.28	0.00	0.00	0.00	0.00	0.00	100.00
1954										
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	17.88	81	345	0	0	0	0	426
	0.00	0.00	17.88	76.15	0.00	0.00	0.00	0.00	0.00	64.03
3	0.00	0.00	3.97	18	9	0	0	0	0	27
	0.00	0.00	3.97	1.98	0.00	0.00	0.00	0.00	0.00	5.96
TOTAL	0.00	0.00	21.85	99	354	0	0	0	0	453
	0.00	0.00	21.85	78.14	0.00	0.00	0.00	0.00	0.00	100.00

LOCALITY YEAR SIA A-E

SHEET A-E

	0	1	2	3	4	5	6	7	8	9	TOTAL
1961	0	0	62	29	10	0	0	0	0	0	101
1	0.00	0.00	30.54	14.28	4.00	0.00	0.00	0.00	0.00	0.00	49.10
2	0	0	28	63	6	0	0	0	0	0	97
0.00	0.00	13.79	31.03	2.55	0.00	0.00	0.00	0.00	0.00	0.00	47.37
3	0	0	1	4	0	0	0	0	0	0	5
0.00	0.00	.49	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46
TOTAL	0	0	91	96	16	0	0	0	0	0	203
0.00	0.00	44.82	47.29	7.85	0.00	0.00	0.00	0.00	0.00	0.00	100.00
1960	0	0	27	107	20	0	0	0	0	0	154
1	0.00	0.00	12.27	48.63	9.09	0.00	0.00	0.00	0.00	0.00	70.00
2	0	0	8	55	1	0	0	0	0	0	64
0.00	0.00	3.63	25.00	.45	0.00	0.00	0.00	0.00	0.00	0.00	29.09
3	0	0	0	2	0	0	0	0	0	0	2
0.00	0.00	0.00	.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.90
TOTAL	0	0	35	164	21	0	0	0	0	0	220
0.00	0.00	15.90	74.54	9.54	0.00	0.00	0.00	0.00	0.00	0.00	100.00
1959	0	0	41	106	7	0	0	0	0	0	154
1	0.00	0.00	12.20	31.54	1.19	0.00	0.00	0.00	0.00	0.00	44.94
2	0	1	87	89	8	0	0	0	0	0	185
0.00	.29	25.89	26.48	2.32	0.00	0.00	0.00	0.00	0.00	0.00	55.05
3	0	0	0	0	0	0	0	0	0	0	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0	1	128	195	12	0	0	0	0	0	326
0.00	.29	38.09	58.03	3.57	0.00	0.00	0.00	0.00	0.00	0.00	100.00

LOCALITY	YEAR	SEMIT AGE								TOTAL				
		0	1	2	3	4	5	6	7		8			
1958	1	0	0	1	27	0	0	0	0	0	0	0	0	28
		0.00	0.00	.09	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
	2	0	0	202	707	47	0	0	0	0	0	0	0	956
		0.00	0.00	19.25	67.39	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.13
1957	3	0	0	20	42	3	0	0	0	0	0	0	0	65
		0.00	0.00	1.90	4.00	.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16
	TOTAL	0	0	223	776	50	0	0	0	0	0	0	0	1049
		0.00	0.00	21.25	73.97	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
1956	1	0	0	0	2	0	0	0	0	0	0	0	0	2
		0.00	0.00	0.00	.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.17
	2	1	0	132	919	51	0	0	0	0	0	0	0	1102
	.08	0.00	11.50	80.12	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1166
1955	3	0	0	5	34	2	0	0	0	0	0	0	0	42
		0.00	0.00	.43	2.96	.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66
	TOTAL	1	0	137	955	54	0	0	0	0	0	0	0	1147
	.08	0.00	11.94	83.26	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119.00
1954	1	0	0	1	5	0	0	0	0	0	0	0	0	6
		0.00	0.00	.09	.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.56
	2	0	0	195	805	38	0	0	0	0	0	0	0	1038
	0.00	0.00	18.25	75.37	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.19	
1953	3	0	0	8	13	3	0	0	0	0	0	0	0	24
		0.00	0.00	.74	1.21	.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
	TOTAL	0	0	204	823	41	0	0	0	0	0	0	0	1078
	0.00	0.00	19.10	77.05	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00	

LOCALITY YEAR STA AGE

STREET AGE

TOTAL

PT ESCURIMAC

LOCALITY	YEAR	STA	AGE	STREET	AGE	5	6	7	TOTAL		
1962	1962	1	0	0	0	0	0	0	0	0	
			2	0.68	0.48	1.66	0.00	0.00	0.00	0.00	2.82
			3	0	0.00	0.00	3.94	1.31	0.00	0.00	5.26
			4	0	1.31	48.68	30.26	7.89	0.00	0.00	99.14
			5	0	0	37	23	6	0	0	67
			6	0	0	2	1	2	0	0	5
			7	0	0	2	1	2	0	0	5
			8	0	0	2	1	2	0	0	5
			9	0	0	2	1	2	0	0	5
			10	0	0	2	1	2	0	0	5
1963	1963	1	0	0	0	0	0	0	0	0	
			1	0.00	0.00	1.16	4.65	0.00	0.00	0.00	5.81
			2	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			3	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			4	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			6	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			7	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			9	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1964	1964	1	0	0	0	0	0	0	0	0	
			1	0.00	0.00	1.16	4.65	0.00	0.00	0.00	5.81
			2	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			3	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			4	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			6	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			7	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			9	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1965	1965	1	0	0	0	0	0	0	0	0	
			1	0.00	0.00	1.16	4.65	0.00	0.00	0.00	5.81
			2	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			3	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			4	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			6	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			7	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			9	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1966	1966	1	0	0	0	0	0	0	0	0	
			1	0.00	0.00	1.16	4.65	0.00	0.00	0.00	5.81
			2	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			3	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			4	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			6	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			7	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			8	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			9	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	TOTAL	TOTAL	0	0	0	0	0	0	0	0	
			1	0.48	0.48	1.66	0.00	0.00	0.00	0.00	2.62
			2	0	0	1.88	2.05	9	0	0	4.00
			3	0	0	49.30	49.39	2.16	0.00	0.00	61.00
			4	0	0	3	0	0	0	0	3
			5	0	0	0.72	0.00	0.00	0.00	0.00	0.72
			6	0	0	0	0	0	0	0	0
			7	0	0	0	0	0	0	0	0
			8	0	0	0	0	0	0	0	0
			9	0	0	0	0	0	0	0	0
TOTAL	TOTAL	TOTAL	0	0	0	0	0	0	0	0	
			1	0.48	0.48	1.66	0.00	0.00	0.00	0.00	2.62
			2	0	0	1.88	2.05	9	0	0	4.00
			3	0	0	49.30	49.39	2.16	0.00	0.00	61.00
			4	0	0	3	0	0	0	0	3
			5	0	0	0.72	0.00	0.00	0.00	0.00	0.72
			6	0	0	0	0	0	0	0	0
			7	0	0	0	0	0	0	0	0
			8	0	0	0	0	0	0	0	0
			9	0	0	0	0	0	0	0	0

LOCALITY	YEAR	SPLIT AGE							TOTAL		
		0	1	2	3	4	5	6			
1961	1	0	0	10	3	0	0	0	0	0	12
		0.00	0.00	1.06	.31	0.00	0.00	0.00	0.00	0.00	1.36
	2	0	3	217	547	116	1	0	0	0	874
	0.00	.31	23.13	58.31	12.36	.10	0.00	0.00	0.00	0.00	94.24
1960	3	0	1	6	33	1	0	0	0	0	41
		0.00	.10	.63	3.51	.10	0.00	0.00	0.00	0.00	4.37
	TOTAL	0	4	233	583	117	1	0	0	0	930
	0.00	.42	24.84	62.15	12.47	.10	0.00	0.00	0.00	0.00	100.00
1959	1	0	0	0	2	0	0	0	0	0	2
		0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00	1.29
	2	0	1	32	111	5	0	0	0	0	149
	0.00	.64	20.77	72.07	3.24	0.00	0.00	0.00	0.00	0.00	96.75
1958	3	0	0	1	2	0	0	0	0	0	3
		0.00	0.00	.64	1.29	0.00	0.00	0.00	0.00	0.00	1.94
	TOTAL	0	1	33	115	5	0	0	0	0	156
	0.00	.64	21.42	74.67	3.24	0.00	0.00	0.00	0.00	0.00	100.00
1957	1	0	0	2	5	0	0	0	0	0	7
		0.00	0.00	.19	.48	0.00	0.00	0.00	0.00	0.00	.67
	2	1	0	281	653	50	0	0	0	0	985
	.09	0.00	27.14	63.09	4.82	0.00	0.00	0.00	0.00	0.00	95.16
1956	3	0	0	17	24	2	0	0	0	0	43
		0.00	0.00	1.64	2.31	.19	0.00	0.00	0.00	0.00	4.15
	TOTAL	1	0	300	682	52	0	0	0	0	1035
	.09	0.00	28.68	65.89	5.02	0.00	0.00	0.00	0.00	0.00	100.00