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A Review of the Nass River Test Fishery Biological Program for 1989

D.R. Southgate, B. Spilsted and L. Jantz

Field Services Branch
Department of Fisheries and Oceans
Prince Rupert, B.C. V8J 1G8

June 1990

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Canadian Data Report of Fisheries and Aquatic Sciences

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by

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ABSTRACT

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Southgate, D.R., B. Spilsted and A.L. Jantz, 1990. A Review of the Nass River test fishery biological program for 1989. Can. Data Rep. Fish. Aquat. Sci. 805: iii + 73p.

Information relating to the Nass River gillnet test fishery program for 1989 is presented in this report. Daily catch of all salmon species (Oncorhynchus sp.) and steelhead trout (Oncorhynchus mykiss) are detailed by set along with age, sex and length data for sockeye and length, sex and flesh colour data for chinook salmon.

Set times and duration, position in tide cycle, weather and water conditions and water temperature are presented as well. Daily index calculations are tabulated for sockeye and chinook along with escapement estimates for sockeye. In addition, the historical relationships between the annual test fishery index for sockeye and the actual escapement count from the spawning grounds is presented.

RÉSUMÉ

Southgate, D.R., B. Spilsted and A.L. Jantz, 1990. A Review of the Nass River test fishery biological program for 1989. Can. Data Rep. Fish. Aquat. Sci. 805: iii + 73p.

Ce rapport donne des renseignements au sujet du programme de pêche expérimentale au filet maillant mis en oeuvre dans la rivière Nass. Les auteurs précisent les captures quotidiennes de toutes les espèces de saumon (Oncorhynchus sp.) et de truite arc-en-ciel (Oncorhynchus mykiss) par mouillage ainsi que l'âge, la sexe et la longueur des saumons rouges et la longueur, la sexe et la couleur de la chair des saumons quinnats.

Le moment et la durée des mouillages, la position des filets en fonction de la marée, les conditions météorologiques et hydrologiques et la température de l'eau sont également fournis. Le rapport résume des calculs d'indice quotidien pour les saumons rouges et quinnats et estime l'échappée chez les saumons rouges. En outre, il présente les relations historiques entre l'indice annuel de pêche expérimentale du saumon rouge et le véritable dénombrement de géniteurs ayant remonté vers les frayères.

1.0 INTRODUCTION

The Nass River test fishery has been operated annually since 1963, with little change from the original program. The test fishery occurs on the lower Nass River near Monkley Creek, approximately 16 km from the commercial fishing boundary near Kincolith (Fig. 1 and 2). The site is locally referred to as Monkley Dump. Alternate test sites were examined in 1969 but with unfavorable results (Dickson and Vroom, 1970).

The test fishery program provides a daily estimate of the sockeye escapement into the Nass River. This estimate is in the form of a daily index of abundance. It is expressed as a catch per 1,000 fathom-minutes of fishing time, which standardizes catches for daily variability in time fished and length of net used (Henry, 1961).

The data obtained from this operation combined with estimates of the commercial catch in Area 3 provide an indication of the sockeye run size on a daily basis. The ability to approximate the escapement on a daily basis as soon as it has passed through the gauntlet of fisheries is an extremely valuable aid to the precise regulation of the fishery (Todd and Dickson, 1970). Although daily escapement estimates are not calculated for the other species of salmon, the relative abundance and timing of chinook salmon is determined by comparing daily calculated indices throughout the season. This report documents the information collected during the 1989 test fishery program.

2.0 METHODS

The Department of Fisheries and Oceans chartered the North Roamer, a 35 ft. wooden gillnet fishing vessel to conduct the Nass River test fishery for the 1989 season. The charter was obtained following the standard contractual arrangements as outlined in Appendix 1. The test fishery operated from June 2nd to August 16th.

2.1 DRIFT AREA

Daily sets or "drifts" are made only on low slackwater tides. Low tide at the test fishery site usually occurs four to five hours after the low tide listed in the tide book for Prince Rupert Harbour. The 1989 Prince Rupert Harbour tide table can be referred to in Appendix 2. The final decision as to the exact time when slackwater occurs and the corresponding set is made is left to the discretion of the test fisherman. Two sets of approximately 15 minutes in duration are made during each low slackwater tide, with the second occurring immediately after the first. For each 24 hour period, there are 2 low slackwater tides. Therefore, four sets are made each day. Exact times of all drifts are recorded as follows:

1. "Set time", the process of setting out the net in the water, begins when the first cork goes over the drum, and ends when the last cork goes over the drum. This activity is usually 5 minutes in duration.

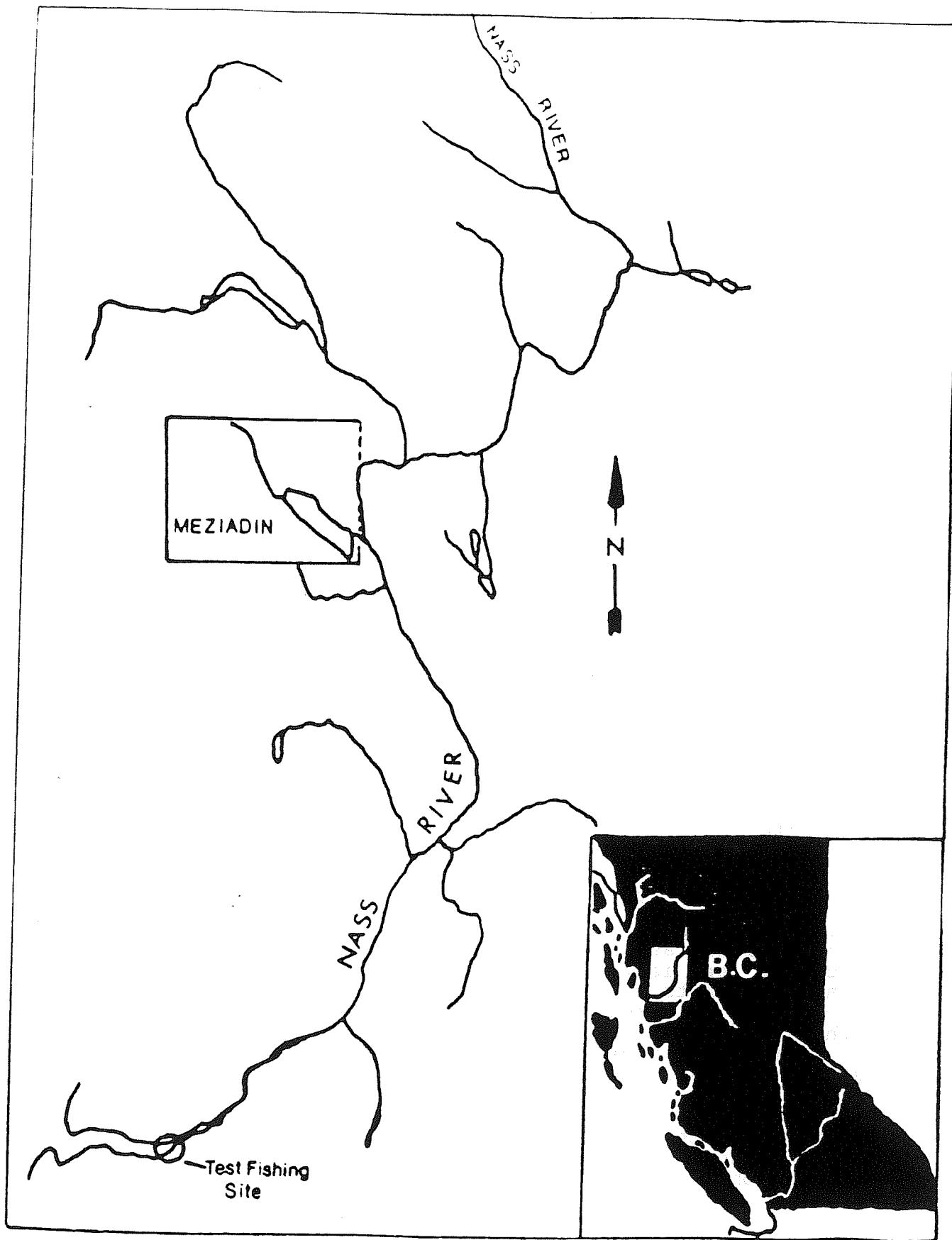


FIGURE 1. The Nass River test fishing location on the lower Nass River within the Nass River watershed.

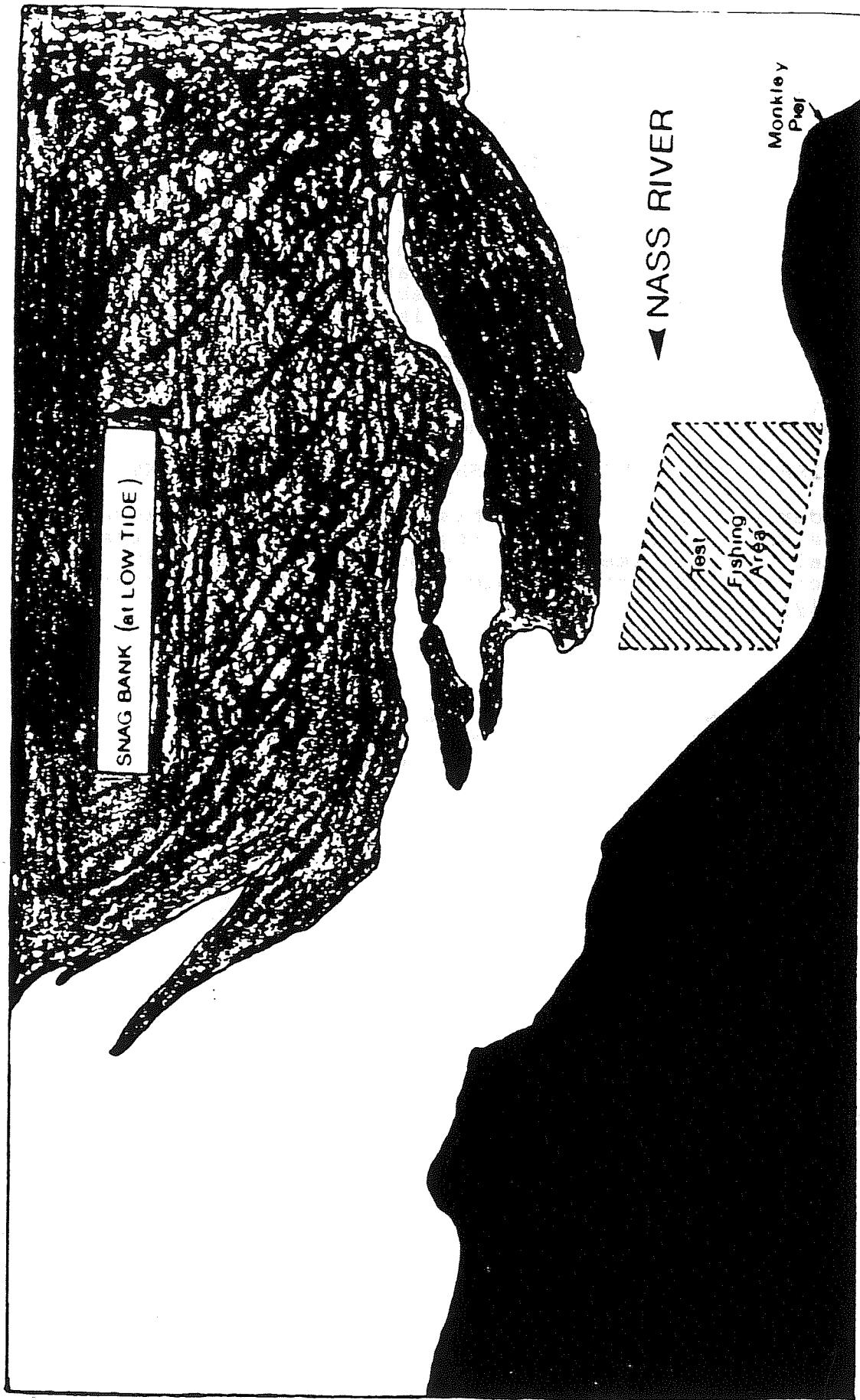


FIGURE 2. Test fishery site on the Nass River between Snag Bank and Monkley Pier.

2. A "drift", or period of time when the net is in the water for the purpose of catching fish, begins when the last cork goes over the drum and all the net is in the water. The standard duration of drift time is set at 10 minutes.

3. Pick up time or "pick time" is the time it takes to drum the net aboard the fishing vessel. It begins when the first cork is brought over the drum and ends when the last cork (terminal part of net) is over the drum. The standard duration of the pick time is set at 8 minutes. Fish and debris are removed as the net is drummed aboard and this activity is included in the pick up time.

When problems occur with the net, such as bunching up or snagging on debris, the fisherman uses his own judgement whether the net is still fishing. Accurate recordings of these times is essential for the calculation of the test fishery index.

2.2 TOTAL FISHING TIME AND TEST FISHERY INDEX CALCULATIONS

In order to calculate the Nass test fishery sockeye index, the total time and total catch is required for each of the four daily sets. Total fishing time equals the sum of the drift time (10 minutes) plus 1/2 of both the set and pick up times (5 minutes and 8 minutes respectively) as described above.

Example:

Total fishing time for a set:

$$\begin{aligned} \text{5 min. set time}/2 &= 2.5 \text{ minutes.} \\ \text{10 min drift time} &= 10.0 \text{ minutes.} \\ \text{8 min. pick up time}/2 &= 4.0 \text{ minutes.} \end{aligned}$$

Total fishing time for a set = 16.5 minutes.

Daily catch index=

daily catch x 1,000 / 100 fathom net length x total fishing time, and is expressed as a daily catch per 1,000 fathom-minutes of fishing time.

2.3 TEST NETS

Three identical nets are used during the program and are alternated on a daily basis to allow for repairs. Each net is 100 fathoms in length and consists of three separate panels, each of which is 33 1/3 fathoms in length. The three mesh sizes that make up the net, one size for each panel, are as follows:

1. 4" mesh, 50 meshes deep.
2. 4 1/2" mesh, 45 meshes deep.
3. 5" mesh, 40 meshes deep.

Net twine consists of #23 - n.9.13 twine, with a Momoi shade 3 (light green) color. A river lead line (200 - 220 lbs) is used and the net is hung in a 2:1 ratio.

2.4 SAMPLING

Sampling information is recorded by the fisherman in a log book upon completion of each set. This includes date, set times, catch by species, weather and water conditions as well as local seal abundance. All sockeye caught are sampled as follows:

1. sex noted
2. scale samples (2) taken
3. hypural length measured
4. nose/fork length measured

Similar sampling is carried out on all chinook salmon, with the exception that 5 scales are taken instead of the 2 required for sockeye. Electrophoretic and brain parasite samples are taken from sockeye as part of the on-going International Sockeye Sampling Program.

2.5 DELIVERY OF CATCH

The catch is delivered by the fisherman on a weekly basis to a local Prince Rupert processing plant. Due to the remoteness of the test fishery location, the fisherman must leave the site to deliver his fish immediately after the first set series on Wednesday of each week and is back at the test site to complete the second set series on Friday, unless other arrangements have been made. No test fishing is conducted during the period the test fisherman is absent from the site. Daily indices covering this period of time are obtained by averaging the catch information for the first set series on Wednesday and the second set series on Friday.

3.0 RESULTS

The daily set information of the Nass River test fishery for 1989 is presented in Appendix 3. This information includes daily set and pick up times, total fishing time and catch of all species. The 1989 cumulative test fishery index totaled 273.91 for sockeye and 42.72 for large chinook. Appendix 4 presents the daily and cumulative indices for sockeye and chinook for 1989.

A total of 1,076 sockeye and 141 chinook were sampled during the 1989 Nass River gillnet test fishery program. The biological information collected for each fish sampled in 1989 is recorded in Appendix 5 for sockeye and Appendix 6 for chinook.

Weekly age composition of sockeye by sex is presented in Appendix 7. Weekly and annual mean hypural and nose/fork lengths of sockeye by sex and age class are presented in Appendix 8. Nass River daily and cumulative test fishing indices of escapement as well as cumulative indices and escapements for sockeye for the years 1980 to 1989 are given in Appendices 9 and 10 respectively. Chinook test fishery escapement indices for the years 1980 to 1989 are recorded in Appendix 11.

Appendix 12 presents the historical relationship between the annual

sockeye test fishing index predicted escapement and the actual recorded escapement past the test fishery. The 1989 Nass River test fishery index calculation indicated a total sockeye run of 184,889 while the actual recorded returns past the test fishery was set at 119,826, which includes 112,307 escapement to spawning grounds plus a 7,519 piece native food fishery catch.

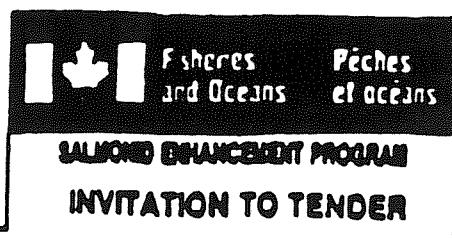
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Henry, K.A. 1961. Racial identification of Fraser River sockeye salmon by means of scales and its applications to salmon management. I.P.S.F.C. Bull. No. XIII: 97p.

Todd, I.S. and F.V. Dickson. 1970. Nass River sockeye salmon. A review of the commercial fishery and a summary of the 1963 to 1969 biological programs. D.F.O. Tech. Rpt. No. 1970-10: 73p.

APPENDIX 1. Nass test fishery charter contract.



SEALED TENDERS, addressed to the Head, Contracts Section, Materiel Management Division, Department of Fisheries and Oceans, Pacific Region, 4th Floor, Registry Office, 555 West Hastings Street, Vancouver, BC V6B 5G3, and marked:

TENDERS FOR:

NASS TEST PROGRAM

VC 89 - 052

will be received up to 2:00 p.m. local time, March 10, 1989 for the following services:

One gillnet vessel for testfishing on the Nass River at the site commonly referred to as Monkley Dump. Testfishing to commence on or about the 4th of June, 1989, and terminate no later than August 5, 1989; approximately 59 days.

Skipper will also provide deckhand for biological sampling and record keeping.

The lowest or any bid will not necessarily be accepted. Payment of the service contract is to be from the sale of fish caught during the operation. Bids are to be expressed in pounds of Sockeye per day.

Tender forms are available from the Fisheries office in Prince Rupert, or through the Registry Office at 555 West Hastings Street, Vancouver, BC V6B 5G3; (604) 666-0984.

For further information and/or to receive a copy of the tender form, please call David Southgate or Les Jantz in Prince Rupert at 624-0468.

A.R. Charette
Head, Contracts Section
Materiel Management Division
Management Services Branch

Canada

APPENDIX 1. Cont.

GENERAL

1. The Department of Fisheries will be responsible for installation and removal of the test float.
2. The department of Fisheries will supply all necessary sampling equipment.
3. The test fisherman must demonstrate an ability and willingness to communicate his interpretation of stock habits to DFO representatives only. Discretion must be used when communicating on private frequencies.
4. Test fisherman will carry out all necessary sampling before he proceeds with the removal of the catch. The catch will be delivered on a weekly basis, attempting to accommodate both DFO and the test fisherman.
5. Test fisherman will not be eligible to enter the commercial fishery while on charter to DFO.
6. Test fisherman must have valid 1989 " A " license.
7. In the event of a shortfall, Sockeye prices will be based on the 1989 average landed value as determined through consultation with industry. On Oct 2, 1989 Sockeye prices from North Coast processing plants will be averaged (B.C. Packers, Ocean Fisheries, J.S. MacMillan and the Fishermans Co-op). Co-op prices will have to be estimated because of their pricing structure. Prices from cash buyers will NOT be used. A formal agreement with the successful applicant and DFO will be signed before the start of the program. Other species will be converted to Sockeye.
8. Cost of relaying information daily to the DFO offices (telephone calls) are to be borne by the fisherman.
9. Services will be for a minimum of twenty (20) days and a maximum of one hundred (100) days.

APPENDIX 1. Cont.

Details and Conditions are as follows:

1. Vessel to be supplied with operator.
 2. Fisherman must be fully knowledgeable in commercial gillnetting with a minimum of ten (10) years experience. The fisherman must have fished and be familiar with the area to be tested; Area 3 (Nass River Management unit 3-12).
 3. Fisherman will be requested to carry out electrophoretic sampling during the charter.
 4.
 - a) Fisherman will be responsible for delivery of catch to the processing plant of his choice. (i.e. fisherman will provide ice boxes/suitable vehicle or arrange for delivery of catch with a packer at his expense.) Copies of delivery slips must be give to DFO personnel after each delivery.
 - b) In the case of private sales, the fisherman is required to supply DFO with receipts.
 5. Fisherman must be prepared to work at any hour of the day or night. A minimum of four (4) - ten (10) minute sets are required during each 24 hour period.
 6. All nets and lines will be supplied by DFO. (Fisherman will have to repair test nets continually throughout the program.)
 7. Vessel Requirements:
 - a) Vessel must conform fully with M.O.T. safety regulations and be in excellent overall condition.
 - b) Radar is required.
 - c) The test fisherman will be required to supply all fuel, water, lubricants, etc.
 - d) The vessel must have ample room behind the drum for two (2) persons to tag and sample, if required.
 8. Deckhand Requirements:
 - a) Must have previous experience in salmon gillnetting (minimum 2 years).
 - b) Some knowledge and ability in the following sampling techniques on salmonids: species identification, scale removal, fin clipping, lengths, sexing, electrophoretic sampling, otoliths, fecundity, spaghetti and peterson disc tagging.
 - c) Must be able to keep neat, accurate records.
- (Please describe the deckhand experience/knowledge thoroughly.)

APPENDIX 1. Cont.

Department of Fisheries
Fisheries Management
555 West Hastings Street
Vancouver, B.C.
V6B 5G3

OFFER TO TESTFISH - TENDER FORM

I/we the undersigned, hereby offer the following gillnet vessel to partake in the area _____ test fishing in accordance with the terms and conditions attached:

- 1) Name of Vessel _____.
- 2) Name(s) of Owner(s) _____.
- 3) Address of Owner(s) _____.
- 4) Location of vessel (for inspection purposes) _____.
- 5) Name of Operator _____.
- 6) Number of years licensed salmon fishing experience _____.
- 7) a) Number of years fished in Area 3 _____.
b) Number of years fished in Nass River (management unit 3-12) _____.
- 8) Previous Test Fishing experience inside Test area _____.
- 9) Previous Test Fishing experience outside Test area _____.
- 10) Vessel length _____ Beam _____.
- 11) Vessel construction - Material _____.
- 12) Vessel construction - Date _____.
- 13) Expiry date of MOT inspection _____.
- 14) Gross tonnage _____ Registered tonnage _____.
- 15) Engine make _____ H.P. _____.
- 16) Fuel type _____.
- 17) Cruising speed _____.
- 18) Radiotelephone(s): Make _____.
- 19) Radar (make) _____ Sounder (model) _____.

APPENDIX 1. Cont.

20) Life saving equipment carried _____.

21) Service to commence and terminate at _____.

22) Deckhand:

a) Number of years fishing as gillnet deckhand _____.

b) Sampling experience
_____.

23) Bid on rate per day to be expressed in pounds of sockeye (with deckhand included) _____.

24) Signature(s) of registered Owner(s) _____.

Date _____.

Deckhand Experience

APPENDIX 2. Prince Rupert Harbour daily tide table.

PRINCE RUPERT (F°)

1989

TIDE TABLES

JUNE-JULY												AUGUST-AUGUST															
Dy	Low	M	H	m	low	Hour	H	P	H	m	low	Hour	H	P	H	m	low	Hour	H	P	H	m	low	Hour			
1	0615	27	8	16	0540	48	15	1	0600	23	7	18	0600	42	13	1	0045	212	63	16	0020	212	63	16	0130		
TH	1715	56	56	1230	160	27	1	FR	1225	55	24	0720	52	27	1	0725	120	56	1	0150	207	63	16	0130			
JF	2320	68	55	2330	167	60	1	SA	1755	56	24	0720	52	27	1	0725	120	56	1	0150	207	63	16	0130			
2	0810	16	5	17	0620	49	12	2	0005	21	5	17	0645	31	9	2	0030	212	63	17	0105	207	62	17	0215		
FR	1810	16	50	1230	173	57	2	SA	0850	51	10	1110	17	54	2	0725	120	56	1	0150	207	63	16	0205			
VE	1815	67	57	18	1815	67	27	2	SA	1315	49	57	1840	82	25	WE	1415	19	57	18	0015	19	57	18	0015		
3	0015	22	7	69	10	0010	20	2	3	0055	21	5	68	0035	20	8	4	0210	211	64	18	0155	207	61	17		
SA	0720	52	51	SU	1320	178	62	3	0715	52	51	1420	178	62	7	0235	223	68	3	0315	223	68	3	0315			
SA	1825	59	52	DI	1855	64	26	4	1420	52	51	1520	178	62	7	0235	211	66	3	0315	211	66	3	0315			
4	0100	22	7	69	19	0050	20	7	4	0140	21	7	65	19	0120	18	6	4	0245	220	62	7	0230	220	62	7	0230
SU	1410	78	59	MO	1405	192	58	5	1420	52	51	1440	193	59	5	0245	210	66	5	0345	210	66	5	0345			
CA	1945	71	22	LU	1935	61	25	MA	2020	71	22	WE	2030	64	20	WE	2120	69	16	SA	1500	221	67	MO			
5	0150	22	8	20	0130	20	9	5	0225	21	8	0800	21	9	5	0225	220	68	3	0210	220	68	3	0210			
MO	1455	79	52	TU	1445	18	4	6	1520	79	52	1520	18	4	6	0940	1520	79	52	0925	1520	79	52	0925			
LU	2030	79	52	MA	2015	79	24	7	2105	79	52	WE	2045	80	16	SA	1520	80	16	WE	1520	80	16	WE			
6	0235	81	66	21	0215	21	9	6	0305	20	6	0305	20	6	6	0400	1815	66	21	0405	1815	66	21	0405			
TU	1540	79	58	WE	1525	16	5	7	1525	79	52	1525	16	5	7	0915	1525	79	52	0925	1525	79	52	0925			
MA	2120	77	23	WE	2100	77	23	8	2145	77	22	VE	2130	85	17	DI	2235	85	20	WE	2235	85	20	WE			
7	0320	27	63	22	0255	20	7	7	0350	19	60	0200	20	7	6	0320	19	60	20	0315	19	65	5	0405			
WE	1825	28	58	MO	1840	23	7	8	1015	18	58	0220	18	58	7	0435	17	63	22	0455	17	63	7	0455			
ME	2210	62	25	JE	1805	16	57	9	1835	16	58	1815	20	63	10	1035	16	58	10	1045	16	58	10	1045			
8	0410	18	59	23	0340	20	62	0	0430	18	56	0240	18	56	23	0405	1815	56	23	0405	1815	56	23	0405			
TH	1710	18	55	FF	1645	18	57	23	1720	17	56	1720	17	56	23	0420	1720	17	56	0420	1720	17	56	0420			
JE	2300	18	26	VE	2235	17	54	23	2210	17	56	2210	17	56	23	0420	1725	18	55	0420	1725	18	55	0420			
9	0500	18	55	24	0430	18	59	9	0515	18	54	0515	18	54	24	0510	1810	56	24	0510	1810	56	24	0510			
FR	1130	40	15	54	1100	18	59	10	1125	16	52	0510	18	59	10	1125	16	52	1125	16	52	1125	16				
VE	1800	17	54	SA	1720	18	58	10	1750	16	52	0510	18	59	10	1750	16	52	1750	16	52	1750	16				
10	0600	88	27	25	0530	18	54	11	0605	17	58	0215	18	54	25	0620	17	58	25	0620	17	58	25				
SA	0955	10	52	WE	1145	16	54	12	1205	17	54	1205	17	54	26	0910	17	54	26	0910	17	54	26				
SA	1855	17	4	SA	1820	16	51	13	1830	17	54	1830	17	54	27	0925	17	54	27	0925	17	54	27				
11	0105	88	27	26	0640	18	50	14	0110	17	50	0110	17	50	28	0125	17	50	28	0125	17	50	28				
CA	1900	18	48	MO	1830	17	48	15	1920	17	45	1920	17	45	29	0140	17	45	29	0140	17	45	29				
12	0215	84	27	27	0145	18	49	16	0215	17	47	0215	17	47	30	0245	17	47	30	0245	17	47	30				
MO	1400	18	47	TU	1445	18	50	17	0820	17	44	0820	17	44	31	0250	17	44	31	0250	17	44	31				
LU	2035	17	54	MA	2015	18	50	18	1345	17	47	1345	17	47	32	0255	17	47	32	0255	17	47	32				
13	0315	77	23	20	0255	18	46	19	0320	17	42	0320	17	42	33	0340	17	42	33	0340	17	42	33				
CA	1945	77	53	LU	1915	18	53	20	0705	17	45	0705	17	45	34	1010	17	45	34	1010	17	45	34				
14	0410	68	21	20	0400	18	47	21	0420	17	44	0420	17	44	35	0435	17	44	35	0435	17	44	35				
WE	1555	81	20	18	1020	18	45	22	1050	18	41	1050	18	41	36	1035	18	41	36	1035	18	41	36				
ME	2210	18	56	JE	2215	18	56	23	1655	18	42	1655	18	42	37	1640	18	42	37	1640	18	42	37				
15	0455	68	16	30	0505	18	40	24	0515	18	36	0515	18	36	38	0555	18	36	38	0555	18	36	38				
TH	1115	100	49	1130	17	52	25	1145	17	49	1145	17	49	39	0620	17	49	39	0620	17	49	39					
JE	2250	101	56	VE	2310	18	55	26	1105	18	49	1105	18	49	40	1245	18	56	40	1245	18	56	40				

APPENDIX 3. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES					
		HOURS	MIN	HOURS	MIN		LG. SOCKEYE	JK. CHINOOK	PINKS	COHO	CHUM	STHD
							CHINOOK					
JUNE 3	1	11	58	12	9	12.5	0	0	0	0	0	0
		11	59	12	13							
	2	12	20	12	32	13	0	0	0	0	0	0
		12	22	12	36							
	3	22	55	23	7	14.5	2	1	1	0	0	0
		22	57	23	14							
	4	23	18	23	30	13.5	0	0	0	0	0	0
		23	20	23	35							
				TOTAL		53.5	2	1	1	0	0	0
JUNE 4	1	12	48	13	0	16	0	0	0	0	0	0
		12	50	13	10							
	2	13	15	13	27	13.5	0	0	0	0	0	0
		13	17	13	32							
						0						
	3					0						
	4					0						
				TOTAL		29.5	0	0	0	0	0	0
JUNE 5	1	0	0	0	12	16	0	0	0	0	0	1
		0	2	0	22							
	2					0						
	3	13	55	14	6	14.5	0	0	0	0	0	0
		13	56	14	14							
	4	14	20	14	32	15	1	0	0	0	0	0
		14	22	14	40							
				TOTAL		45.5	1	0	0	0	0	1
JUNE 6	1					0						
	2					0						
	3	14	50	15	2	15.5	0	0	0	0	0	0
		14	52	15	11							
	4	15	16	15	28	13.5	0	0	0	0	0	0
		15	18	15	33							
				TOTAL		29	0	0	0	0	0	0
JUNE 7	1	2	19	2	31	14.5	2	0	0	0	0	0
		2	21	2	38							
	2	2	41	2	53	15.5	2	1	0	0	0	0
		2	43	3	2							
	3	15	39	15	51	13.5	0	1	0	0	0	0
		15	41	15	56							
	4	16	0	16	12	14	1	0	0	0	0	0
		16	2	16	18							
				TOTAL		57.5	5	2	0	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME		CATCH IN PIECES					
		HOURS	MIN	HOURS	MIN	TIME	SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JUNE 13	1					0							
	2					0							
	3	20	11	20	23	15	8	0	1	0	0	0	0
		20	13	20	31								
	4	20	38	20	50	13.5	1	2	0	0	0	0	0
		20	40	20	55								
				TOTAL	28.5		9	2	1	0	0	0	0
JUNE 14	1	10	23	10	31	10	1	2	0	0	0	0	0
		10	24	10	36								
	2	10	43	10	51	9	0	2	0	0	0	0	0
		10	45	10	55								
	3	20	53	21	5	16	7	4	0	0	0	0	0
		20	55	21	15								
	4	21	22	21	34	15.5	4	1	1	0	0	0	0
		21	24	21	43								
				TOTAL	50.5		12	9	1	0	0	0	0
JUNE 15	1	11	34	11	43	10	2	0	0	0	0	0	0
		11	36	11	47								
	2	11	54	12	2	10.5	0	1	0	0	0	0	0
		11	56	12	9								
	3	21	13	21	25	14	3	0	0	0	0	0	0
		21	15	21	31								
	4	21	37	21	45	12	2	0	0	0	0	0	0
		21	39	21	55								
				TOTAL	46.5		7	1	0	0	0	0	0
JUNE 16	1	12	12	12	24	13	0	1	0	0	0	0	0
		12	14	12	28								
	2	12	34	12	46	13	1	1	0	0	0	0	0
		12	36	12	50								
	3	22	8	22	20	15	4	6	0	0	0	0	0
		22	10	22	28								
	4	22	31	22	43	14	1	0	0	0	0	0	0
		22	33	22	49								
				TOTAL	55		6	8	0	0	0	0	0
JUNE 17	1	12	3	12	15	13.5	3	4	0	0	0	0	0
		12	5	12	20								
	2	12	23	12	35	13	0	1	0	0	0	0	0
		12	25	12	39								
	3	22	15	22	27	14	1	2	0	0	0	0	0
		22	17	22	33								
	4	22	40	22	52	13.5	0	0	0	0	0	0	0
		22	42	22	57								
				TOTAL	54		4	7	0	0	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME		CATCH IN PIECES					
		HOURS	MIN	HOURS	MIN	TIME	SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JUNE 23	1					0							
	2					0							
	3	15	14	15	26	13.5	4	2	1	0	0	0	0
		15	16	15	31								
	4	15	34	15	41	9	6	2	0	0	0	0	0
		15	36	15	47								
					TOTAL	22.5	10	4	1	0	0	0	0
JUNE 24	1	2	38	2	49	16	6	2	0	0	0	0	1
	2	39	3	0									
	2	3	4	3	16	14	1	0	3	0	0	0	0
		3	6	3	22								
	3	15	53	16	5	14	4	2	0	0	0	0	0
		15	55	16	11								
	4	16	13	16	25	13	1	0	0	0	0	0	0
		16	15	16	29								
					TOTAL	57	12	4	3	0	0	0	1
JUNE 25	1	3	58	4	10	15	4	2	0	0	0	0	0
	4	0	4	18									
	2	4	22	4	34	18	5	1	0	0	0	0	0
		4	24	4	48								
	3	16	43	16	55	14	5	0	0	0	0	0	0
		16	45	17	1								
	4	17	5	17	17	14	1	2	0	0	0	0	0
		17	7	17	23								
					TOTAL	61	15	5	0	0	0	0	0
JUNE 26	1	5	40	5	52	15	5	1	1	0	0	0	0
	5	42	6	0									
	2	6	5	6	17	13	0	1	0	0	0	0	0
		6	7	6	21								
	3	17	34	17	46	14	7	0	0	0	0	0	0
		17	36	17	52								
	4	17	57	18	9	14	5	0	0	0	0	0	0
		17	59	18	15								
					TOTAL	56	17	2	1	0	0	0	0
JUNE 27	1	6	36	6	48	13.5	5	3	0	0	0	0	0
	6	38	6	53									
	2	6	58	7	10	13.5	2	2	0	0	0	0	0
		7	0	7	15								
	3	18	2	18	14	16.5	12	2	2	0	0	0	0
		18	4	18	25								
	4	18	30	18	42	13	1	1	0	0	0	0	0
		18	32	18	46								
					TOTAL	56.5	20	8	2	0	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES						
		HOURS	MIN	HOURS	MIN		SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JUNE 28	1	7	32	7	44	14	7	3	0	0	0	0	0
		7	34	7	50								
	2	7	55	8	7	14.5	6	3	0	0	0	0	0
		7	57	8	14								
	3					0							
	4					0							
				TOTAL		28.5	13	6	0	0	0	0	0
JUNE 29	1					0							
	2					0							
	3					0							
	4					0							
				TOTAL		0	0	0	0	0	0	0	0
JUNE 30	1					0							
	2					0							
	3	20	37	20	49	13	5	1	0	0	0	0	0
		20	39	20	53								
	4	20	55	21	7	13.5	2	1	0	0	0	0	0
		20	57	21	12								
				TOTAL		26.5	7	2	0	0	0	0	0
JULY 1	1	10	46	10	57	13	0	2	0	0	0	0	0
		10	47	11	2								
	2	11	6	11	18	13	2	3	1	0	0	0	0
		11	8	11	22								
	3	21	22	21	34	15	6	2	0	0	0	0	0
		21	24	21	42								
	4	21	46	21	58	16	8	1	1	0	0	0	0
		21	48	22	8								
				TOTAL		57	16	8	2	0	0	0	0
JULY 2	1	11	33	11	45	14	10	4	0	0	0	0	0
		11	35	11	51								
	2	11	55	12	8	13.5	5	0	1	0	0	0	0
		11	58	12	12								
	3	22	31	22	43	15	4	4	5	0	0	0	0
		22	33	22	51								
	4	22	53	23	5	13.5	2	2	0	0	0	0	0
		22	55	23	10								
				TOTAL		56	21	10	6	0	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES						
		HOURS	MIN	HOURS	MIN		SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JULY 8	1	3	13	3	25	15.5	9	1	4	3	1	0	0
		3	15	3	34								
	2	3	36	3	48	15	7	1	2	1	1	0	0
		3	38	3	56								
	3	15	23	15	35	16	23	0	5	1	0	0	0
		15	25	15	45								
	4	15	47	15	59	14.5	9	0	1	3	0	0	0
		15	49	16	6								
		TOTAL				61	48	2	12	8	2	0	0
JULY 9	1	3	50	4	2	16	13	1	0	3	0	1	0
		3	51	4	11								
	2	4	16	4	28	13.5	4	0	0	1	0	0	0
		4	18	4	33								
	3	15	52	16	4	16.5	26	1	3	4	0	0	0
		15	54	16	15								
	4	16	20	16	32	14.5	12	1	0	1	0	0	0
		16	22	16	39								
		TOTAL				60.5	55	3	3	9	0	1	0
JULY 10	1	5	12	5	23	16	29	1	2	1	0	0	0
		5	13	5	34								
	2	5	43	5	55	14.5	12	2	0	0	0	0	0
		5	45	6	2								
	3	16	27	16	37	16	34	1	1	5	0	0	0
		16	29	16	51								
	4	16	57	17	9	14	10	0	1	1	0	0	0
		16	59	17	15								
		TOTAL				60.5	85	4	4	7	0	0	0
JULY 11	1	6	7	6	19	13.5	27	0	0	1	0	0	0
		6	9	6	24								
	2	6	32	6	44	14	20	3	1	1	0	0	0
		6	34	6	50								
	3	17	39	17	51	16.5	26	0	1	10	0	0	0
		17	41	18	2								
	4	18	8	18	20	13.5	4	0	1	3	0	0	0
		18	10	18	25								
		TOTAL				57.5	77	3	3	15	0	0	0
JULY 12	1	7	28	7	40	13	5	0	0	1	0	0	0
		7	30	7	44								
	2	7	51	8	3	13.5	11	2	0	0	0	0	0
		7	53	8	8								
		TOTAL				26.5	16	2	0	1	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES						
		Hours	Min	Hours	Min		LG.	JK.	PINKS	COHO	CHUM	STHD	
							SOCKEYE	CHINOOK	CHINOOK				
JULY 13	1					0							
	2					0							
	3					0							
	4					0							
						TOTAL	0	0	0	0	0	0	
JULY 14	1					0							
	2					0							
	3	20	7	20	19	15	12	0	0	3	0	0	
		20	9	20	27								
	4	20	32	20	44	13.5	4	0	0	2	0	0	
		20	34	20	49								
						TOTAL	28.5	16	0	5	0	0	
JULY 15	1	10	24	10	35	15	12	2	0	4	0	0	
		10	25	10	44								
	2	10	51	11	3	14.5	8	1	0	1	0	0	
		10	53	11	10								
	3	20	35	20	47	20	22	2	2	3	0	0	
		20	37	21	5								
	4	21	8	21	20	14	4	0	0	5	1	0	
		21	10	21	26								
						TOTAL	63.5	46	5	2	13	1	0
JULY 16	1	11	4	11	16	20.5	32	0	0	14	0	0	
		11	6	11	35								
	2	11	41	11	53	15.5	15	0	0	6	0	0	
		11	43	12	2								
	3	21	19	21	31	14	7	0	0	11	0	0	
		21	21	21	37								
	4	21	39	21	51	14.5	7	0	1	7	0	0	
		21	41	21	58								
						TOTAL	64.5	61	0	1	38	0	0
JULY 17	1	11	39	11	51	14.5	18	0	0	13	0	0	
		11	41	11	58								
	2	12	3	12	15	17	14	0	3	22	0	0	
		12	5	12	27								
	3	22	3	22	15	14	22	0	0	8	0	0	
		22	5	22	21								
	4	22	28	22	40	13.5	8	0	0	1	0	0	
		22	30	22	45								
						TOTAL	59	62	0	3	44	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES							
		HOURS	MIN	HOURS	MIN		SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD	
JULY 18	1	12	7	12	19	16	17	0	0	25	0	0	0	
		12	9	12	29									
	2	12	31	12	43	15.5	17	0	1	18	0	0	2	
		12	33	12	52									
	3	22	46	22	57	17.5	14	0	2	30	3	0	0	
		22	49	23	13									
	4	23	15	23	27	14	6	0	0	10	0	0	0	
		23	17	23	33									
				TOTAL		63	54	0	3	83	3	0	2	
JULY 19	1	12	38	12	50	17.5	12	0	0	47	1	0	0	
		12	40	13	3									
	2	13	7	13	19	17	4	0	0	62	0	0	0	
		13	9	13	31									
						0								
JULY 20	1					TOTAL	34.5	16	0	0	109	1	0	0
	2													
	3													
JULY 21	4													
						TOTAL	0	0	0	0	0	0	0	0
	1													
	2													
JULY 22														
	3	13	50	14	2	20	4	0	1	73	1	0	1	
		13	51	14	19									
	4	14	22	14	29	14	7	0	3	63	5	0	0	
		14	24	14	45									
JULY 22						TOTAL	34	11	0	4	136	6	0	1
	1	1	22	1	34	20.5	8	0	0	60	0	0	0	
		1	24	1	53									
	2					0								
JULY 22	3	14	14	14	26	19	5	0	0	49	0	0	0	
		14	16	14	42									
	4	14	45	14	57	13	2	0	0	45	0	0	0	
		14	47	15	1									
						TOTAL	52.5	15	0	0	154	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES					
		HOURS	MIN	HOURS	MIN		LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JULY 23	1	2	2	2	13	20	7	0	0	141	0	0
		2	3	2	32							
	2	2	43	2	50	8.5	0	0	0	6	0	0
		2	45	2	55							
	3	14	27	14	39	23.5	25	0	0	103	4	0
		14	29	15	4							
	4	15	7	15	19	17.5	3	0	0	74	0	0
		15	9	15	32							
				TOTAL		69.5	35	0	0	324	4	0
JULY 24	1	2	59	3	11	25.5	15	0	1	148	2	0
		3	1	3	40							
	2	3	45	3	57	16.5	6	0	1	20	0	0
		3	47	4	8							
	3	15	15	15	26	18.5	22	0	0	40	0	0
		15	16	15	42							
	4	15	45	15	57	17.5	10	0	0	141	1	0
		15	47	16	10							
				TOTAL		78	53	0	2	349	3	0
JULY 25	1	4	11	4	23	30	11	0	0	163	2	0
		4	13	5	1							
	2	5	5	5	17	18.5	3	0	0	67	0	0
		5	7	5	32							
	3	15	47	15	59	16.5	8	0	0	51	3	0
		15	49	16	10							
	4	16	15	16	27	27.5	18	0	0	208	2	0
		16	17	17	0							
				TOTAL		92.5	40	0	0	489	7	0
JULY 26	1					0						
	2					0						
	3					0						
	4					0						
						TOTAL	0	0	0	0	0	0
JULY 27	1					0						
	2					0						
	3					0						
	4					0						
						TOTAL	0	0	0	0	0	0

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES						
		HOURS	MIN	HOURS	MIN		LG. SOCKEYE	CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
JULY 28	1					0							
	2					0							
	3	19	15	19	27	27	13	1	0	159	0	0	0
		19	17	19	59								
	4	20	1	20	13	16.5	5	1	0	23	0	0	0
		20	3	20	24								
				TOTAL		43.5	18	2	0	182	0	0	0
JULY 29	1	9	34	9	40	18	16	1	0	71	2	0	0
		9	36	10	6								
	2	10	14	10	26	16.5	4	0	0	46	1	0	0
		10	16	10	37								
	3	20	23	20	34	23.5	10	0	0	79	8	0	0
		20	24	21	0								
	4					0							
				TOTAL		58	30	1	0	196	11	0	0
JULY 30	1	10	32	10	44	25	11	1	0	110	7	0	0
		10	34	11	12								
	2	11	14	11	26	17	6	0	0	8	2	0	0
		11	16	11	38								
	3	21	18	21	30	28.5	17	0	0	150	13	0	0
		21	20	22	5								
	4					0							
				TOTAL		70.5	34	1	0	268	22	0	0
JULY 31	1	11	18	11	30	23.5	10	0	0	154	3	0	0
		11	20	11	55								
	2	12	0	12	12	22.5	6	0	0	129	3	0	1
		12	2	12	35								
	3	22	13	22	25	15	9	0	0	45	0	0	0
		22	15	22	33								
	4	22	40	22	52	21.5	2	0	0	99	1	0	0
		22	42	23	13								
				TOTAL		82.5	27	0	0	427	7	0	1
AUG. 1	1	11	50	12	2	21	12	0	0	102	2	0	1
		11	52	12	22								
	2	12	28	12	40	17.5	5	0	0	56	1	0	0
		12	30	12	53								
	3	22	58	23	10	18.5	4	2	0	57	6	0	0
		23	0	23	25								
	4					0							
				TOTAL		57	21	2	0	215	9	0	1

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

DATE	SET #	SET TIME		PICK TIME		ACTUAL FISHING TIME	CATCH IN PIECES						
		HOURS	MIN	HOURS	MIN		SOCKEYE	LG. CHINOOK	JK. CHINOOK	PINKS	COHO	CHUM	STHD
AUG. 2	1	12	25	12	36	23.5	10	0	0	132	6	0	1
		12	26	13	2								
	2	13	8	13	20	15	2	0	0	41	1	0	0
		13	10	13	28								
	3				0								
	4				0								
				TOTAL	38.5	12	0	0	173	7	0		1
AUG. 3	1				0								
	2				0								
	3				0								
	4				0								
				TOTAL	0	0	0	0	0	0	0	0	0
AUG. 4	1				0								
	2				0								
	3				0								
	4				0								
				TOTAL	0	0	0	0	0	0	0	0	0
AUG. 5	1				0								
	2				0								
	3	14	3	14	15	19.5	7	0	0	110	5	0	0
		14	5	14	32								
	4	14	41	14	53	14	0	0	0	39	1	0	0
		14	43	14	59								
				TOTAL	33.5	7	0	0	149	6	0	0	
AUG. 6	1	2	20	2	32	18.5	2	0	0	55	1	0	0
		2	22	2	47								
	2	2	50	3	2	15	0	0	0	24	0	0	0
		2	52	3	10								
	3	14	25	14	36	22.5	7	2	0	156	12	0	0
		14	26	15	0								
	4	15	5	15	11	10	1	0	0	57	4	0	0
		15	7	15	21								
				TOTAL	66	10	2	0	292	17	0	0	

APPENDIX 3 Cont. Daily set information for the Nass test fishery, 1989.

APPENDIX 4. Daily and cumulative index calculation of sockeye and chinook salmon at the Nass test fishery, 1989.

DATE	DAILY		CUMULATIVE		DAILY		CUMULATIVE		DAILY		CUMULATIVE	
	SOCKEYE	LG. CHINOOK	SOCKEYE	LG. CHINOOK	SOCKEYE	LG. CHINOOK	SOCKEYE	LG. CHINOOK	SOCKEYE	LG. CHINOOK	SOCKEYE	LG. CHINOOK
JUNE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.40	62.84	32.49
2	0.00	0.00	0.00	0.00	0.00	0.00	2	3.75	1.79	66.59	34.28	2
3	0.37	0.19	0.37	0.19	3	3.89	1.06	70.48	35.34	3	2.77	0.00
4	0.00	0.00	0.37	0.19	4	3.75	1.25	74.23	36.59	4	2.43	0.00
5	0.22	0.00	0.59	0.19	5	7.34	0.00	81.57	36.59	5	2.09	0.00
6	0.00	0.00	0.59	0.19	6	7.52	0.11	89.09	36.70	6	1.52	0.30
7	0.87	0.35	1.46	0.54	7	7.70	0.22	96.79	36.92	7	2.45	0.00
8	0.70	0.70	2.16	1.24	8	7.87	0.33	104.66	37.25	8	2.12	0.00
9	0.70	2.43	2.86	3.67	9	9.09	0.50	113.75	37.75	9	2.59	0.00
10	2.07	2.24	4.93	5.91	10	14.05	0.66	127.80	38.41			
11	0.75	0.75	5.68	6.66	11	13.39	0.52	141.19	38.93			
12	1.96	0.73	7.64	7.39	12	6.04	0.75	147.23	39.68			
13	3.16	0.70	10.80	8.09	13	5.83	0.38	153.06	40.06			
14	2.38	1.78	13.18	9.87	14	5.61	0.00	158.67	40.06			
15	1.51	0.22	14.69	10.09	15	7.24	0.79	165.91	40.85			
16	1.09	1.45	15.78	11.54	16	9.46	0.00	175.37	40.85			
17	0.74	1.30	16.52	12.84	17	10.51	0.00	185.88	40.85			
18	2.32	1.25	18.84	14.09	18	8.57	0.00	194.45	40.85			
19	6.18	2.28	25.02	16.37	19	4.64	0.00	199.09	40.85			
20	4.67	1.68	29.69	18.05	20	3.94	0.00	203.03	40.85			
21	1.85	1.85	31.54	19.90	21	3.24	0.00	206.27	40.85			
22	2.10	1.82	33.64	21.72	22	2.86	0.00	209.13	40.85			
23	4.44	1.78	38.08	23.50	23	5.04	0.00	214.17	40.85			
24	2.11	0.70	40.19	24.20	24	6.79	0.00	220.96	40.85			
25	2.46	0.82	42.65	25.02	25	4.32	0.00	225.28	40.85			
26	3.04	0.36	45.69	25.38	26	4.26	0.15	229.54	41.00			
27	3.54	1.42	49.23	26.80	27	4.20	0.30	233.74	41.30			
28	4.56	2.11	53.79	28.91	28	4.14	0.46	237.88	41.76			
29	3.60	1.43	57.39	30.34	29	5.17	0.17	243.05	41.93			
30	2.64	0.75	60.03	31.09	30	4.82	0.14	247.87	42.07			
					31	3.27	0.00	251.14	42.07			

APPENDIX 5. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 3	1	568	712	M	4	
	2	568	677	F	5 ¹	
June 7	3	494	607	M	4 ²	
	4	550	680	F	5 ¹	
	5	462	561	F	4 ²	
	6	518	627	M	4 ¹	
	7	544	659	F	5 ¹	
	8	558	669	F	5 ²	
	9	488	612	M	4 ²	
June 8	10	460	558	F	4 ¹	
	11	510	632	F	4 ²	
June 9	12	533	652	F	5 ¹	
	13	450	553	M	3 ²	
	14	455	548	M	4 ¹	
	15	555	697	M	5 ²	
June 10	16	473	585	F	4 ²	
	17	512	650	M	4 ¹	
	18	568	712	M	6 ¹	
	19	537	660	F	5 ³	
	20	530	664	F	6 ²	
	21	553	688	M	6 ³	
	22	570	712	M	5 ³	
	23	480	583	F	4 ²	
	24	460	563	F	4 ²	
	25	470	589	F	6 ¹	
June 11	26	560	691	F	5 ²	
	27	483	600	F	4 ²	
June 13	28	530	663	M	R ²	
	29	550	690	F	5 ²	
	30	555	687	F	5 ²	
	31	530	667	F	(9+10)	6 ³
	32	590	720	M	(10+9)	6 ³
	33	510	627	F	R	
	34	490	590	F	R	

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APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 14	35	495	618	M		4 ¹
	36	560	685	F	(10+11)	6 ³
	37	500	612	M		4 ¹
	38	570	712	M		5 ¹
	39	530	650	F	(9+9)	6 ²
	40	530	643	M		5 ²
	41	540	650	M		NP
	42	480	587	F		4 ²
	43	500	640	M		4 ¹
	44	590	730	M		5 ¹
June 15	45	490	602	F	(12+11)	5 ²
	46	485	606	F		R ³
	47	540	690	M		5 ²
	48	570	720	M	(8+12)	6 ³
	49	525	655	F		5 ³
	50	475	583	F		4 ²
June 16	51	510	635	F		4 ¹
	52	430	550	M		3 ¹
	53	475	580	F		4 ¹
	54	485	595	M	(10+10)	5 ³
	55	530	675	M	(8+10)	6 ³
June 17	56	560	690	F		6 ³
	57	480	597	F		R ³
	58	485	595	F	(7+8)	5 ³
	59	470	595	M		4 ²
June 18	60	455	560	F		4 ²
	61	550	690	M		5 ¹
	62	520	635	F		4 ²
	63	560	690	F	(9+9)	6 ³
	64	503	620	F		4 ²
	65	495	610	F		4 ¹
	66	530	670	M		5 ²
	67	500	635	M		R ²
	68	545	681	M	(8+9)	6 ³

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 18	69	541	677	M		R
	70	500	663	M		4 ₁
	71	490	610	F		4 ₁
June 19	72	515	650	M	(9+11)	6 ₁
	73	545	675	M		4 ₃
	74	550	695	M		4 ₁
	75	533	665	M		4 ₁
	76	590	733	F	(8+11)	6 ₁
	77	435	585	M		4 ₃
	78	512	643	F		5 ₁
	79	545	690	M		4 ₂
	80	473	575	F		4 ₁
	81	550	675	F		5 ₁
	82	530	655	F	(6+8)	6 ₃
	83	455	575	F		4 ₁
	84	470	590	F		4 ₁
	85	555	705	M		5 ₂
	86	510	653	M		4 ₁
	87	460	568	F		4 ₁
	88	480	600	F		4 ₁
	89	473	580	F		4 ₁
	90	570	710	M		5 ₂
	91	530	655	M		4 ₁
	92	560	690	M		R
	93	510	625	F		4 ₁
	94	465	570	F	(7+10)	5 ₃
	95	480	595	F		R
	96	540	670	F		5 ₂
	97	531	682	M		4 ₂
	98	510	615	M	(9+10)	5 ₃
	99	560	700	M		5 ₂
	100	500	645	F		R
June 19	101	510	630	M		4 ₁
	102	532	663	M		R

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 19	103	510	640	M		4
	104	453	563	F		4 ¹
	105	463	565	F		4 ¹
	106	572	693	M		R
	107	593	742	M	(10+12)	6 ³
	108	490	600	M		4 ³
June 20	109	550	680	F		5 ²
	110	470	595	M		R ²
	111	583	741	M		R
	112	491	595	F		R
	113	525	640	F		4 ²
	114	481	590	F		R
	115	473	585	F		4 ¹
	116	581	712	F		R ¹
	117	563	685	F	(9+9)	6 ³
	118	491	600	F		R
	119	503	623	F	(10+9)	5 ³
	120	506	615	F		4 ¹
	121	515	633	F		NP
	122	571	700	M		5 ²
	123	581	722	F		5 ²
	124	600	733	F		5 ²
	125	603	742	M		5 ²
	126	463	563	F		R ²
	127	483	610	F		4 ¹
	128	490	606	M		4 ²
	129	560	690	M		5 ²
	130	480	590	M		4 ²
	131	490	606	F		4 ¹
	132	475	585	M		4 ¹
	133	509	625	F		4 ¹
June 21	134	570	700	M	(9+9)	6 ³
	135	463	570	F		4 ¹
	136	460	563	F		4 ¹

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 21	137	470	595	F		R
June 23	138	481	590	F		5
	139	485	600	F	(8+9)	5
	140	510	630	M	(6+10)	5
	141	460	555	M		3
	142	522	643	M		4
	143	450	563	F		4
	144	490	600	F		2
	145	540	670	M		6
	146	484	593	F	(7+12)	3
	147	580	720	M		5
June 24	148	490	610	M		2
	149	461	580	F		4
	150	441	570	F		2
June 24	151	463	575	F		1
	152	520	644	M		2
	153	538	660	F		3
	154	520	660	M		4
	155	460	565	F	(8+10)	2
	156	520	630	F		5
	157	483	600	F		4
	158	491	590	F		1
	159	500	614	M		4
June 25	160	560	683	M		2
	161	572	705	M		6
	162	492	591	F	(10+11)	3
	163	482	584	M		4
	164	478	590	M		2
	165	448	553	F		4
	166	506	606	F	(7+9)	3
	167	468	580	F		4
	168	556	688	M		1
	169	544	668	F		6
	170	530	644	F		3
						2

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 25	171	458	547	F	(9+12)	5 ³
	172	467	556	F		R
	173	500	600	F		5
	174	493	596	F		4 ³
June 26	175	489	592	F	(7+9)	5 ²
	176	490	591	F	(6+8)	5 ³
	177	494	610	F		6 ³
	178	577	705	M		6 ³
	179	584	706	M		6 ³
	180	490	600	M	(7+9)	5 ³
	181	521	662	F		4 ¹
	182	508	614	F		5 ¹
	183	556	686	F		5 ²
	184	592	720	M		6 ²
	185	607	740	F		5 ³
	186	516	625	F		W ²
	187	475	579	F	(8+8)	5 ³
	188	463	571	F		R
	189	533	652	F		4 ²
June 27	190	500	610	F		4 ¹
	191	500	600	F		4 ¹
	192	561	688	F		6 ²
	193	506	600	F		W ³
	194	503	605	F		4 ²
	195	503	609	F		R
	196	478	582	F		4 ²
	197	523	631	F	(7+10)	5 ³
	198	477	575	F		4 ²
	199	573	695	M	(9+9)	5 ²
June 27	200	467	563	F		R
	201	478	570	F		4 ²
	202	484	583	F		R
	203	500	600	F		R
	204	546	667	F		5 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
June 27	205	497	608	F		R
	206	507	615	F		4
	207	505	608	F	(5+5)	5 ²
	208	520	618	F	(7+9)	5 ³
	209	502	610	F		4 ³
	210	573	697	M		6 ¹
June 28	211	465	560	F		R ³
	212	522	625	M		4 ²
	213	500	600	F	(7+8)	5 ³
	214	570	700	M		6 ³
	215	485	585	F		4 ¹
	216	525	653	M		4 ¹
	217	590	720	M		6 ²
	218	517	634	M		4 ³
	219	514	623	F	(8+11)	5 ¹
	220	455	552	F		4 ³
	221	565	680	M		6 ²
	222	580	705	M		6 ³
	223	470	580	F		R ³
June 30	224	528	642	F		6 ³
	225	475	564	F		4 ²
	226	573	700	M		5 ²
	227	553	675	F		5 ²
	228	523	630	F	(10+11)	5 ³
	229	573	708	M		6 ³
July 1	230	510	617	F		5 ³
	231	565	686	M		5 ²
	232	508	627	M		4 ²
	233	560	700	M	(8+8)	5 ³
	234	472	579	F		4 ²
	235	473	574	F		4 ²
	236	500	610	M		4 ²
	237	480	577	F		4 ²
	238	538	645	M	(7+9)	5 ³

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 1	239	517	622	M	(8+11)	5 ₃
	240	559	671	M		6 ₃
	241	454	545	F		W ₃
	242	517	622	M	(8+8)	5 ₃
	243	543	650	F		5 ₂
	244	457	552	F		4 ₂
	245	584	696	M		5 ₂
July 2	246	514	616	F	(8+9)	5 ₂
	247	537	647	F		W ₃
	248	592	720	M		5 ₂
	249	500	608	F	(9+10)	5 ₃
	250	512	620	F		4 ₃
July 2	251	550	683	M		6 ₂
	252	537	645	F		5 ₃
	253	453	552	F		4 ₂
	254	517	620	F	(7+8)	5 ₃
	255	503	600	F		4 ₃
	256	522	633	F	(7+7)	5 ₂
	257	472	575	M		4 ₃
	258	575	703	M		W ₂
	259	536	651	F		6 ₃
	260	512	628	M		4 ₃
	261	488	608	M	(5+8)	5 ₂
	262	510	615	F		R
	263	520	636	M		R
	264	525	644	M		W
July 3	265	480	590	F		4 ₂
	266	477	573	F	(6+7)	5 ₃
	267	518	625	F		R
	268	462	570	F		R
	269	470	562	F		4 ₂
	270	490	600	F		4 ₂
	271	518	625	F		4 ₂
	272	522	634	F		4 ₂

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 3	273	610	753	M		6
	274	457	560	F	(8+8)	3
	275	480	572	M		4
	276	567	661	M		6
	277	518	620	F		3
	278	531	640	F		5
	279	500	615	F		4
	280	572	712	M		6
	281	500	595	F		3
	282	482	594	F		W
	283	492	587	F		4
	284	461	558	M		2
	285	449	547	M		4
July 4	286	490	582	F		4
	287	472	577	M		2
	288	490	600	F		5
	289	480	584	F		3
	290	472	565	F		4
	291	455	551	F		2
	292	570	694	M		6
	293	492	592	F		5
	294	550	661	F		3
	295	480	588	F		4
	296	465	570	M		5
	297	512	622	F		3
	298	520	628	M		6
	299	470	578	F		3
July 4	300	538	657	F		2
	301	561	696	M		6
	302	494	592	M		3
	303	567	700	M		6
	304	538	668	F		R
	305	552	690	M		5
	306	540	651	M		2

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 5	307	432	572	F		4
	308	463	584	F		4
	309	546	673	M		W
	310	443	547	F	(6+8)	5
	311	457	558	F		3
	312	450	547	F		R
	313	495	623	F		NP
	314	420	533	F		4
	315	558	712	M		6
	316	547	662	F		3
	317	458	538	F		R
	318	471	598	F	(7+9)	5
	319	471	585	M		3
	320	533	687	M		2
	321	458	573	F		4
	322	597	738	M		1
	323	482	584	F		6
	324	547	673	M		3
	325	471	597	M		NP
	326	558	698	F		2
	327	471	584	F	(8+9)	5
	328	471	572	F		3
	329	533	686	M		R
	330	432	547	F	(7+11)	6
	331	482	610	M		3
	332	482	610	F		4
	333	458	572	M		2
July 8	334	456	563	F		4
	335	428	520	M		2
	336	506	608	M		4
	337	483	578	F		2
	338	492	590	F		4
	339	520	630	F		2
	340	565	680	F		5
						2

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 8	341	472	568	F	4	2
	342	444	530	F	4	2
	343	420	520	F	4	2
	344	512	611	F	4	2
	345	583	710	M	5	2
	346	515	635	M	W	2
	347	556	682	F	6	3
	348	490	600	F	R	
	349	460	550	F	4	2
	350	500	634	F	4	2
July 8	351	440	544	M	4	2
	352	508	600	F	4	2
	353	520	625	F	R	2
	354	540	673	F	5	2
	355	455	570	F	R	
	356	438	550	M	4	2
	357	440	548	F	4	2
	358	500	600	M	(7+9)	5
	359	550	680	M	5	3
	360	530	635	F	R	2
	361	490	600	F	(6+10)	5
	362	498	600	M	4	3
	363	500	610	M	(6+11)	5
	364	480	580	F	4	3
	365	445	545	F	4	2
	366	455	540	F	4	2
	367	548	628	F	5	2
	368	521	620	M	6	3
	369	483	608	M	4	2
	370	520	635	F	5	2
	371	480	590	F	(7+9)	5
	372	450	573	M	4	2
	373	543	670	M	5	2
	374	545	650	F	6	3

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 8	375	433	525	F		R
	376	493	615	M	6	
	377	473	580	F	4	
	378	533	670	M	6	2
	379	433	536	F	4	3
	380	430	533	F	4	2
	381	455	560	F	4	2
July 9	382	460	565	F	4	2
	383	440	555	F	4	2
	384	520	635	F	5	2
	385	480	590	M	4	2
	386	500	620	F		R
	387	520	623	F	5	
	388	480	590	F	4	2
	389	510	625	F	(8+10)	5
	390	490	600	M	4	3
	391	540	663	M	5	
	392	460	573	F	(5+9)	5
	393	470	570	F	4	3
	394	460	565	F	4	2
	395	510	540	F		W
	396	420	500	F	4	
	397	490	610	F	6	2
	398	565	695	M	5	3
	399	480	570	F	(10+13)	5
	400	500	615	M	4	3
July 9	401	540	680	M	6	
	402	460	568	F	4	2
	403	460	560	F	4	2
	404	450	555	F	4	2
	405	470	575	F	4	2
	406	530	665	M	(6+9)	5
	407	440	545	F	(6+10)	5
	408	430	530	F		4
						2

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 9	409	470	565	F		4
	410	450	550	F		5
	411	530	642	F	(6+11)	5
	412	442	540	F		4
	413	453	560	F		4
	414	485	595	F		4
	415	475	595	M		4
	416	415	515	F		4
	417	418	520	F		5
	418	500	612	F		4
	419	470	585	M		5
	420	500	620	F	(8+9)	5
	421	500	606	M		4
	422	480	585	F		5
	423	520	650	F		R
	424	490	605	M		6
	425	530	675	M		NP
	426	440	540	F		4
	427	465	580	M		4
	428	465	570	F		4
	429	490	600	M		4
	430	470	580	F	(7+9)	5
	431	475	575	F		3
July 10	432	480	590	M		4
	433	570	708	M		6
	434	543	685	M		3
	435	450	560	F		R
	436	500	640	M		5
	437	520	635	F		6
	438	450	565	M		4
	439	450	545	F		4
	440	400	500	F		4
	441	445	530	F		4
	442	480	588	F	(7+10)	5
						3

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 10	443	450	545	F		4 ²
	444	500	630	M		5 ²
	445	410	520	F		4 ²
	446	440	550	F	(7+7)	5 ²
	447	470	580	M		W ³
	448	570	690	F		6 ³
	449	560	712	M		6 ³
	450	550	670	M		6 ³
July 10	451	540	675	M		5 ³
	452	525	640	M		R ²
	453	370	480	F		4 ²
	454	460	565	F		4 ²
	455	564	688	M		6 ³
	456	460	560	F		4 ²
	457	460	560	M		4 ²
	458	505	615	F		4 ²
	459	440	540	F		4 ²
	460	510	620	F		5 ²
	461	550	675	M		6 ³
	462	450	560	M		4 ²
	463	520	635	F		5 ²
	464	450	555	M		4 ²
	465	480	605	M	(7+8)	5 ²
	466	463	650	F		4 ³
	467	478	580	F		4 ²
	468	480	600	F		4 ²
	469	450	554	F		R
	470	430	533	F		R
	471	430	555	F	(8+9)	5 ³
	472	480	595	F		W ³
	473	480	605	M		W
	474	480	575	F		4 ²
	475	530	650	F		R
	476	520	635	F		R

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 10	477	528	655	F		R
	478	510	630	M	4	
	479	460	580	M	4 ²	
	480	560	685	F	5 ²	
	481	445	550	F	4 ²	
	482	440	665	F	6 ²	
	483	450	560	F	4 ³	
	484	430	532	F	4 ²	
	485	555	673	F	6 ²	
	486	565	700	M	6 ³	
	487	520	645	F	(8+9)	5 ³
	488	460	555	F	4 ³	
	489	485	590	F	4 ²	
	490	490	595	F	4 ²	
	491	455	560	F	R	
	492	540	665	F	6 ³	
	493	500	610	F	(7+9)	5 ³
	494	475	583	M	4 ³	
	495	470	580	M	4 ²	
	496	470	600	M	R	
	497	433	515	F	4 ²	
	498	470	580	M	4 ²	
	499	475	600	F	4 ²	
	500	463	573	M	4 ²	
July 10	501	470	573	F	4 ²	
	502	514	635	F	5 ²	
	503	540	668	F	5 ²	
	504	460	559	F	4 ²	
	505	460	553	F	4 ²	
	506	440	548	M	4 ²	
	507	492	620	F	5 ²	
	508	470	595	M	4 ²	
	509	440	543	F	4 ²	
	510	460	568	F	4 ²	

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 10	511	430	535	F		4
	512	463	565	F		4 ²
	513	455	573	M		R ²
	514	480	580	M		R
July 11	515	440	543	F		4
	516	510	650	F		5 ²
	517	530	645	F		5 ²
	518	533	652	F		W ²
	519	463	564	F		4 ²
	520	460	556	F		4 ²
	521	481	593	M		4 ²
	522	412	523	F		W ²
	523	488	588	F		W
	524	480	600	M		4
	525	543	668	M		6 ² 3
	526	443	545	F		4 ² 3
	527	540	673	M		W ²
	528	522	643	F		5 ²
	529	500	615	M		5 ²
	530	444	663	F		4 ²
	531	398	500	F	(8+7)	5 ²
	532	526	648	M		R ³
	533	480	600	M		4 ²
	534	463	580	M		W ²
	535	500	630	M		5 ²
	536	545	678	M		5 ²
	537	458	563	F		4 ²
	538	478	582	F		R ²
	539	518	640	M	(10+9)	5 ³
	540	470	570	M		4 ²
	541	525	650	M		5 ²
	542	480	600	F		4 ²
	543	480	580	F	(8+9)	5 ² 3
	544	550	695	M		6 ³

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 11	545	553	641	F		R
	546	460	540	F		4
	547	478	573	F	(9+9)	5 ²
	548	505	610	F		5 ³
	549	450	545	F		4 ¹
	550	478	580	M	(7+9)	5 ²
July 11	551	470	580	F	(9+8)	5 ³
	552	480	557	M		4 ³
	553	490	575	M	(6+9)	5 ²
	554	500	633	M		5 ³
	555	480	585	F		4 ²
	556	552	643	M		5 ²
	557	458	568	F		4 ²
	558	530	640	M	(9+10)	5 ³
	559	466	590	F		4 ³
	560	520	650	F		5 ²
	561	482	550	F	(6+10)	5 ²
	562	475	600	M		4 ³
	563	530	660	F		6 ²
	564	550	680	F		R ³
	565	425	530	F		4 ²
	566	480	595	F		6 ³
	567	495	615	M		5 ³
	568	530	645	F		5 ³
	569	458	580	F		4 ²
	570	595	740	M		6 ²
	571	468	573	M		4 ³
	572	470	590	F		R ²
	573	420	533	F		4 ²
	574	440	530	M		4 ²
	575	530	645	F		R ²
	576	530	663	M		5 ²
	577	533	640	F		4 ²
	578	500	628	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 11	579	450	550	F		4
	580	462	560	F		4 ²
	581	460	562	F		4 ²
	582	525	640	M		4 ²
	583	470	585	F		4 ²
	584	430	538	M		4 ²
	585	475	590	M		R ²
	586	455	560	F		4 ²
	587	420	513	F		4 ²
	588	553	686	F		6 ²
July 12	589	470	578	F		5 ³
	590	460	560	M		4 ³
	591	540	695	M		5 ²
	592	500	640	M		W ²
	593	550	710	M		6 ³
	594	458	565	F		4 ²
	595	448	532	F		4 ²
	596	480	580	F		4 ²
	597	450	555	M		4 ²
	598	450	554	F		4 ²
	599	540	690	M		6 ²
	600	450	589	M		4 ³
	601	440	540	F		4 ²
July 14	602	520	670	M		5 ²
	603	555	700	M		6 ³
	604	460	580	F		4 ²
	605	583	703	F		6 ²
	606	460	550	F		4 ³
	607	453	576	M		4 ²
	608	450	548	F	(13+20)	5 ²
	609	527	653	F		5 ³
	610	503	627	F		5 ²
	611	470	580	F		4 ²
	612	475	530	M		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 14	613	453	560	M		4
	614	458	543	F	(8+7)	5 ²
	615	508	637	M	(6+9)	5 ³
	616	473	573	F		4 ³
	617	452	550	F		4 ²
July 15	618	440	588	F		4 ²
	619	450	575	M		4 ²
	620	500	608	F		5 ²
	621	520	643	F	(8+9)	5 ²
	622	480	580	F	(7+11)	5 ³
	623	510	620	F		5 ³
	624	480	585	F		6 ²
	625	485	595	M		4 ³
	626	600	755	M		6 ²
	627	440	540	F		4 ³
	628	490	610	M		4 ²
	629	460	580	F		4 ²
	630	440	550	M		4 ²
	631	470	585	F		4 ²
	632	460	570	F		4 ²
	633	510	640	F		5 ²
	634	465	566	F		5 ²
	635	450	560	M		5 ²
	636	570	710	F		6 ²
	637	440	550	F		4 ³
	638	540	660	F		5 ²
	639	500	610	F		6 ²
	640	460	550	F		4 ³
	641	463	575	F		4 ²
	642	490	620	F		NP ²
	643	520	633	F		5 ²
	644	444	540	F		4 ²
	645	525	675	M		5 ²
	646	460	560	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 15	647	505	625	F		RG
	648	480	610	M		4 ²
	649	520	640	F		6 ³
	650	535	668	M		6 ³
July 15	651	465	570	M		4 ³
	652	418	520	F		4 ²
	653	475	595	M		4 ²
	654	488	590	M		4 ²
	655	475	600	M		4 ²
	656	460	560	F		4 ²
	657	460	570	M		RG
	658	460	570	M		5
	659	443	560	M		4 ³
	660	430	550	F		RG
	661	400	510	M		4 ²
	662	455	570	M	(7+9)	5 ²
	663	435	545	F		4 ²
	664	420	530	F		4 ²
July 16	665	482	595	F		6 ²
	666	590	715	F		6 ³
	667	440	535	F		4 ³
	668	540	670	M		5 ²
	669	470	585	M		4 ²
	670	428	540	F		4 ²
	671	530	670	F		5 ²
	672	490	610	F		5 ²
	673	460	585	M		5 ²
	674	470	570	F	(8+9)	5 ³
	675	465	580	F	(7+9)	5 ³
	676	430	530	F		4 ²
	677	550	690	M		5 ²
	678	468	573	M		4 ²
	679	481	590	F	(10+10)	5 ³
	680	440	543	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 16	681	490	630	F	5	2
	682	465	570	F	4	2
	683	440	540	F	4	2
	684	410	510	F	4	2
	685	450	555	M	4	2
	686	450	568	M	4	2
	687	525	640	M	6	2
	688	600	750	M	6	3
	689	465	570	F	3	RG
	690	500	640	F	6	3
	691	450	540	F	4	2
	692	460	580	M	4	2
	693	483	590	F	4	2
	694	508	620	F	6	2
	695	471	570	F	4	3
	696	480	591	M	4	2
	697	443	540	F	4	2
	698	420	520	F	4	2
	699	450	570	M	4	2
	700	470	600	F	(8+11)	5
	701	450	550	F	3	2
	702	440	553	F	4	2
	703	440	552	F	4	2
	704	470	564	F	(6+8)	5
	705	470	580	F	(10+11)	5
	706	550	558	F	3	RG
	707	530	668	M	(8+9)	5
	708	460	570	F	3	RG
	709	470	580	F	5	3
	710	470	581	F	(7+9)	5
	711	550	635	F	3	3
	712	470	570	F	4	3
	713	445	555	F	4	2
	714	490	600	F	(7+10)	5
						2
						3

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 16	715	460	610	F	(6+10)	4 ²
	716	470	590	M		4 ²
	717	620	790	M		6 ³
	718	575	730	F		5 ³
	719	405	510	F		4 ²
	720	450	566	F		4 ²
July 17	721	470	590	M	(6+9)	4 ²
	722	460	575	M		5 ²
	723	500	620	F		6 ³
	724	470	610	M		4 ³
	725	485	610	M		4 ²
	726	500	612	F		5 ²
	727	425	536	F		4 ²
	728	464	576	F		4 ²
	729	460	570	F		4 ²
	730	440	550	F		4 ²
	731	470	588	F		5 ²
	732	512	643	M		4 ³
	733	448	578	M		4 ²
	734	494	612	M		4 ²
	735	510	636	F		5 ²
	736	580	728	M		6 ³
	737	480	580	F		4 ³
	738	478	590	M		4 ²
	739	410	500	F		4 ²
	740	570	735	M		6 ³
	741	442	543	F		4 ²
	742	550	706	F		6 ³
	743	510	618	F		5 ³
	744	443	546	F		4 ²
	745	458	560	F		4 ²
	746	460	582	F		4 ²
	747	461	574	F		4 ²
	748	445	560	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 17	749	448	538	F		R
	750	488	606	M		4
	751	535	670	M		5 ²
	752	540	690	M		6 ²
	753	540	670	M		5 ³
	754	540	682	M		5 ²
	755	565	710	M		5 ²
	756	540	680	M		5 ²
	757	553	700	M		6 ²
	758	480	621	M		4 ³
	759	490	610	M		4 ²
	760	520	660	M		4 ²
	761	545	680	F		6 ²
	762	460	580	F		4 ³
	763	450	570	F		4 ²
	764	440	555	F		4 ²
	765	460	570	F	(7+7)	5 ²
	766	470	580	F		4 ³
	767	460	580	M	(8+8)	5 ³
	768	470	600	F		4 ³
	769	430	550	M		4 ²
	770	460	580	F		4 ²
	771	450	564	F		4 ²
	772	450	555	F		4 ²
	773	480	600	F	(8+11)	5 ³
	774	455	550	F		W
	775	460	560	F	(8+8)	5 ³
	776	460	555	F		4 ²
	777	430	520	F		4 ²
	778	430	530	F		4 ²
	779	460	585	F		4 ²
July 18	780	570	720	F		6 ³
	781	550	680	F		5 ²
	782	530	645	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age, sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 18	783	510	625	F		W
	784	500	629	M		5
	785	570	740	M		6 ²
	786	560	700	M		5 ³
	787	528	660	F		6 ²
	788	580	730	M		6 ³
	789	540	700	M		6 ³
	790	548	690	M		5 ³
	791	460	580	F		4 ²
	792	470	573	F	(6+10)	5 ²
	793	450	570	M		4 ³
	794	470	580	F		4 ²
	795	480	612	M		4 ²
	796	448	540	F		4 ²
	797	512	630	F		4 ²
	798	460	560	F		4 ²
	799	470	570	F	(7+9)	5 ²
	800	522	648	F		5 ³
July 18	801	460	575	F		6 ²
	802	480	600	M		4 ³
	803	430	528	F		4 ²
	804	430	532	F		RG ²
	805	498	608	F	(8+10)	5 ³
	806	438	534	F		4 ²
	807	463	571	F		4 ²
	808	462	560	F		4 ²
	809	448	558	F		4 ²
	810	460	570	M		4 ²
	811	433	545	F		4 ²
	812	420	540	F		4 ²
	813	470	590	M		4 ²
	814	450	560	F		4 ²
	815	470	580	F		4 ²
	816	438	550	F	(6+8)	5 ³

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 18	817	470	580	F	(7+8)	5 ₃
	818	460	580	F		4 ₂
	819	480	590	M		4 ₂
	820	500	625	F		6 ₂
	821	460	585	M		4 ₃
	822	510	630	F		6 ₂
	823	540	663	M		W ₃
	824	470	590	F		4 ₂
	825	450	558	F		4 ₂
	826	500	627	M		4 ₂
	827	447	557	F		RG
	828	450	549	F		4 ₂
	829	485	600	F		4 ₂
	830	540	687	F		6 ₂
July 19	831	490	620	M		4 ₃
	832	530	670	F		W ₂
	833	480	600	F		4 ₂
	834	470	590	M		4 ₂
	835	480	585	F	(7+7)	5 ₃
	836	520	645	F		RG
	837	480	610	M		4 ₂
	838	495	600	F		6 ₃
	839	430	530	F	(5+9)	5 ₃
	840	395	490	F		4 ₂
	841	430	530	F		4 ₂
	842	460	590	M		4 ₂
	843	490	595	F	(6+7)	5 ₃
	844	460	577	M		4 ₂
July 21	845	580	727	M		6 ₃
	846	470	590	F		4 ₂
	847	450	559	F		4 ₂
	848	354	443	F		R
	849	445	560	F		4 ₂
	850	440	545	F		4 ₂

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 21	851	560	690	F		5
	852	468	575	F	(7+15)	5 ²
	853	465	575	F		5 ³
	854	525	645	M	(6+10)	5 ²
	855	450	558	F	(7+9)	5 ³
	856	435	540	F		4 ³
	857	453	561	F	(6+9)	5 ²
July 22	858	490	626	M	(5+9)	5 ³
	859	420	545	F		4 ³
	860	460	562	F		4 ²
	861	460	575	M		4 ²
	862	500	618	F		5 ²
	863	410	530	F		4 ²
	864	429	654	M		RG
	865	450	570	M		RG
	866	410	515	F		4 ²
	867	450	560	F		4 ²
	868	470	590	F		4 ²
	869	540	681	F		6 ³
	870	433	532	F		RG
	871	452	560	F		4 ²
	872	460	570	F		4 ²
	873	425	538	F		4 ²
July 23	874	480	600	M		4 ²
	875	520	672	M		6 ²
	876	530	664	F		5 ³
	877	470	600	F		W ²
	878	430	540	F		4 ²
	879	455	565	M		RG ²
	880	560	700	M		W
	881	470	573	F		4 ²
	882	480	585	F		4 ²
	883	500	620	F		6 ²
	884	490	610	F		4 ²

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 23	885	450	550	F		4 ²
	886	450	560	M		4 ²
	887	530	655	F		5 ²
	888	490	620	M		4 ²
	889	455	560	M		RG ²
	890	450	551	F		W
	891	510	640	F		5 ²
	892	490	614	M		4 ²
	893	475	613	M		RG ²
	894	550	694	M		5 ²
	895	480	610	M		4 ²
	896	425	530	F		RG ²
	897	450	566	M		4 ²
	898	465	600	M		4 ²
	899	450	560	F		4 ²
	900	396	498	F		4 ²
July 23	901	480	600	F	(6+8)	5 ²
	902	458	562	F		RG ³
	903	476	590	F		5 ²
	904	436	540	F		4 ²
	905	508	638	F		4 ²
July 24	906	540	670	M		4 ²
	907	520	650	M	(7+8)	5 ²
	908	480	615	M		5 ³
	909	450	585	F	(7+8)	5 ²
	910	585	730	M		5 ³
	911	520	660	M		5 ²
	912	510	640	M		NA
	913	410	518	F		4 ²
	914	440	536	F		4 ²
	915	540	670	F		6 ²
	916	494	626	F		5 ³
	917	480	610	F	(5+9)	5 ²
	918	495	640	M		5 ³
						2

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 24	919	440	545	F	(7+9)	5 ₃
	920	440	540	F		4 ₂
	921	470	580	F	(7+9)	5 ₃
	922	470	600	M		RG
	923	450	560	F		4 ₂
	924	470	580	F	(8+9)	5 ₃
	925	475	580	F		RG
	926	463	560	F		RG
	927	520	653	M		5 ₂
	928	510	650	F		5 ₂
	929	540	670	F		6 ₃
	930	455	570	F		5 ₂
	931	445	550	F		4 ₂
	932	484	600	M		4 ₂
	933	450	555	F		RG ₂
	934	450	564	M		4 ₂
	935	455	570	F	(7+9)	5 ₃
	936	510	660	M		RG
	937	445	550	F		W
	938	455	560	F		RG
	939	460	590	M		4 ₂
	940	585	738	M		5 ₂
	941	450	560	F	(7+12)	5 ₃
	942	490	630	F		5 ₂
	943	460	580	M		4 ₂
	944	445	540	F	(5+14)	5 ₃
	945	450	560	M		4 ₂
	946	560	721	M		6 ₃
	947	535	675	F		5 ₂
	948	510	640	F		NP
	949	510	655	M		5 ₂
	950	560	690	F		6 ₃
July 24	951	440	525	F		4 ₂
	952	440	560	M		4 ₂

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 24	953	491	608	M	(6+9)	4 ₂
	954	490	595	F		5 ₃
	955	470	575	F		RG
	956	455	560	M		4 ₂
	957	447	545	F		4 ₂
	958	448	590	F		RG
July 25	959	560	712	M	(6+9)	5 ₂
	960	500	616	F		5 ₃
	961	500	610	F		6 ₃
	962	600	770	M		4 ₃
	963	470	585	M		4 ₂
	964	490	600	F		RG
	965	480	591	F		5 ₂
	966	458	565	F		4 ₂
	967	463	580	M		4 ₂
	968	431	530	F		W ₂
	969	480	610	M	(8+10)	5 ₃
	970	470	578	F		4 ₃
	971	451	550	F	RG	2
	972	420	511	F		4 ₂
	973	595	745	M	W	5 ₃
	974	575	720	M		6 ₃
	975	550	700	M	W	6 ₂
	976	594	736	M		6 ₃
	977	550	688	F	(6+9)	6 ₃
	978	510	630	F		5 ₃
	979	500	610	F	(6+9)	5 ₃
	980	460	570	F		4 ₂
	981	470	570	F	RG	4 ₂
	982	530	656	F		5 ₂
	983	465	570	F	(5+9)	RG
	984	450	555	F		4 ₂
	985	470	570	F		4 ₂
	986	470	600	M		5 ₃

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 25	987	470	598	M		5 ₂
	988	490	615	M	(6+9)	5 ₃
	989	480	600	M		W
	990	505	630	M	(9+9)	5 ₃
	991	490	623	M	(6+8)	5 ₃
	992	520	656	F		RG
	993	500	612	F		W
	994	450	585	F		4 ₂
	995	475	580	M		RG
	996	450	563	F		4 ₂
	997	450	580	M	(9+10)	5 ₃
July 26	998	615	795	F		6 ₃
	999	570	715	M		6 ₃
	1000	465	570	F		4 ₂
July 26	1001	455	563	F		4 ₂
July 28	1002	580	725	M		W ₂
	1003	523	665	F		W
	1004	544	685	F		6 ₃
	1005	580	725	F		6 ₃
	1006	525	680	M	(9+10)	5 ₃
	1007	545	675	M		5 ₃
	1008	460	580	M		W ₂
	1009	480	600	F		RG
	1010	526	640	F		W
	1011	494	618	M	(9+10)	5 ₃
	1012	441	555	F		4 ₂
	1013	510	650	M		W
	1014	420	518	F		4 ₂
	1015	450	560	F		4 ₂
	1016	510	630	F		5 ₂
	1017	460	590	M		W
	1018	500	630	F		RG
	1019	500	615	F		RG
	1020	510	633	F		5 ₂

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 28	1021	490	600	F		4
	1022	460	573	F		2
	1023	510	640	M		4
	1024	474	592	M	(10+11)	2
	1025	484	593	F		5
	1026	460	565	F		3
July 29	1027	470	587	F		2
	1028	420	530	M		1
	1029	430	536	F	(5+13)	4
	1030	448	566	M		2
	1031	453	588	M		3
	1032	510	650	F		4
	1033	450	570	M		2
	1034	470	580	F		RG
	1035	440	543	F		4
	1036	460	563	F		2
	1037	463	560	F	(8+10)	4
	1038	465	555	F		2
	1039	490	605	F	(7+10)	3
	1040	488	595	F		5
	1041	540	665	F		2
	1042	450	550	F		W
	1043	465	555	F		5
	1044	420	518	F		2
July 30	1045	450	560	F		RG
	1046	570	690	F		W
	1047	580	720	F		5
	1048	585	715	F		2
	1049	525	650	F		UD
	1050	505	620	F		5
July 30	1051	518	623	M		2
	1052	502	605	F		4
	1053	475	590	F		2
	1054	418	512	F	(11+13)	5
						3

APPENDIX 5 Cont. 1989 Nass River gillnet test fishery sockeye age,
sex and length data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	CIRCULI COUNTS	AGE
July 30	1055	448	555	F	(7+10)	5 ₃
	1056	500	615	F		RG
	1057	570	775	F		4
	1058	475	575	M		4 ₂
	1059	515	625	M		4 ₂
	1060	450	548	M	(9+12)	5 ₂
	1061	465	570	F		6 ₃
	1062	408	500	F		5 ₃
	1063	505	610	F		UD
	1064	530	655	F		UD
	1065	520	625	M	(6+11)	5 ₃
	1066	470	575	F		4 ₃
	1067	495	600	F		4 ₂
	1068	510	640	F		RG
	1069	480	580	F		UD
	1070	475	585	M		4 ₂
	1071	400	500	M		4 ₂
	1072	445	545	M		W ₂
	1073	455	565	M		5
	1074	470	575	M		UD
	1075	550	648	F		5 ₂
	1076	530	655	F		W

APPENDIX 6. 1989 Nass River gillnet test fishery chinook length,
sex and flesh colour data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR
June 3	1	775	961	F	R
	2	852	1097	M	W
June 7	3	606	752	M	R
	4	665	818	M	R
June 9	5	778	991	M	R
	6	795	984	F	R
June 10	7	773	955	F	R
	8	705	893	M	R
	9	732	912	F	R
	10	771	983	M	R
	11	741	905	F	R
	12	700	973	M	W
	13	685	860	M	R
	14	641	808	M	R
	15	710	920	M	W
	16	835	1080	M	R
	17	785	983	F	R
	18	650	820	M	R
	19	725	895	F	W
June 13	20	712	890	F	R
	21	550	683	M	R
	22	793	993	F	R
	23	815	1038	M	R
	24	750	917	F	R
	25	720	900	F	R
	26	690	860	F	W
	27	595	740	M	R
June 14	28	606	773	F	R
	29	740	917	M	R
	30	645	850	M	R
	31	680	860	M	R
	32	750	945	F	R
	33	640	820	F	R
	34	550	680	F	R

APPENDIX 6 Cont. 1989 Nass River gillnet test fishery chinook
length, sex and flesh colour data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR
June 14	35	670	830	F	R
June 15	36	680	870	M	R
	37	660	883	M	R
	38	800	1011	M	R
June 16	39	665	845	M	R
	40	665	830	M	R
	41	660	835	F	R
	42	662	840	M	R
	43	560	723	F	R
	44	700	870	F	R
June 16	45	685	840	F	R
	46	830	1060	F	R
June 17	47	655	840	M	R
	48	650	850	M	R
June 18	49	710	895	F	R
	50	635	800	F	R
	51	725	930	M	R
	52	753	940	F	R
	53	700	907	F	R
June 19	54	533	663	F	R
	55	492	610	F	R
	56	531	681	M	R
	57	771	980	F	R
	58	550	700	F	R
	59	760	930	F	R
	60	820	1046	F	W
	61	757	941	F	R
	62	760	970	F	R
	63	665	835	F	R
June 20	64	755	943	F	R
	65	740	905	F	R
	66	720	900	F	R
	67	660	825	F	R
	68	842	1062	F	R

APPENDIX 6 Cont. 1989 Nass River gillnet test fishery chinook length, sex and flesh colour data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR
June 20	69	712	900	F	R
	70	690	860	F	R
June 21	71	620	800	F	R
	72	800	1018	M	W
	73	740	940	F	R
	74	600	745	F	R
June 23	75	785	1000	M	R
	76	650	815	F	R
	77	723	895	F	R
June 24	78	600	756	F	R
	79	685	890	F	R
	80	767	970	F	R
	81	563	710	M	R
June 25	82	706	880	F	R
	83	545	680	F	R
	84	634	795	F	R
	85	549	663	M	R
	86	698	858	F	R
June 26	87	615	758	F	R
June 27	88	770	955	F	R
	89	733	925	F	R
	90	843	1096	M	R
June 27	91	765	948	F	R
	92	732	880	M	R
	93	668	830	M	W
	94	650	800	M	R
June 28	95	880	1145	M	R
	96	772	992	M	R
	97	655	805	F	R
	98	626	783	M	R
June 30	99	790	968	F	W
	100	650	805	F	R
July 1	101	720	900	M	R
	102	560	695	F	R

APPENDIX 6 Cont. 1989 Nass River gillnet test fishery chinook
length, sex and flesh colour data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR
July 1	103	618	770	M	W
	104	712	866	F	R
	105	655	808	F	R
	106	690	840	M	R
	107	553	688	M	R
July 2	108	572	718	M	R
	109	773	975	F	R
	110	680	837	M	R
	111	753	950	M	R
	112	560	715	M	R
	113	685	844	M	R
	114	636	794	F	R
	115	653	820	M	R
July 3	116	890	1210	M	R
	117	760	998	M	R
	118	632	805	F	R
	119	630	777	F	R
	120	727	883	F	R
	121	668	853	F	R
July 4	122	705	874	F	R
	123	665	826	M	R
	124	615	760	F	R
	125	658	823	F	R
July 4	126	714	882	M	R
	127	761	975	M	R
	128	780	863	F	R
July 8	129	750	940	F	R
July 9	130	590	730	M	R
	131	540	695	M	R
July 10	132	560	708	F	R
	133	560	699	M	R
	134	530	660	F	R
	135	700	873	M	W
July 11	136	550	710	F	R

APPENDIX 6 Cont. 1989 Nass River gillnet test fishery chinook
length, sex and flesh colour data.

DATE	Sample #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR
July 11	137	640	810	M	R
	138	800	1000	F	R
July 12	139	830	1042	M	R
July 15	140	650	810	M	R
	141	820	1043	F	W

APPENDIX 7. Weekly and annual summary of sockeye age composition data from the Nass River test fishery, 1989.

WEEK ENDING	SEX	#	³ ₁ %	#	⁴ ₁ %	#	⁴ ₂ %	#	⁵ ₂ %	#	⁵ ₃ %	#	⁶ ₂ %	#	⁶ ₃ %	TOTAL # ALL AGE CLASSES	
JUNE 03	M			1	100.0					1	100.0					1	
	F															1	
	TOTAL (M+F)			1	50.0					1	50.0					2	
JUNE 10	M	1	10.0	4	40.0	1	10.0	2	20.0	5	41.7					10	
	F	4	33.3	4	33.3	2	16.7	5	41.7						12		
	TOTAL (M+F)	1	4.5	8	36.4	3	13.6	7	31.8						3	13.6	22
JUNE 17	M	1	7.7	3	23.1	1	7.7	4	30.8	1	7.7	1	6.3	3	23.1	13	
	F	3	18.8	2	12.5	4	25.0	2	12.5	2	12.5	4	25.0		16		
	TOTAL (M+F)	1	3.4	6	20.7	3	10.3	8	27.6	3	10.3	1	3.4	7	24.1	29	
JUNE 24	M			13	35.1	7	18.9	9	24.3	2	5.4				6	16.2	37
	F			21	44.7	8	17.0	8	17.0	6	12.8				4	8.5	47
	TOTAL (M+F)			34	40.5	15	17.9	17	20.2	8	9.5				10	11.9	84
JULY 01	M	2	6.9	5	17.2	4	13.8	6	20.7			12	41.4		29		
	F	5	11.1	15	33.3	8	17.8	13	28.9			4	8.9		45		
	TOTAL (M+F)	7	9.5	20	27.0	12	16.2	19	25.7			16	21.6		74		
JULY 08	M			15	35.7	9	21.4	5	11.9			13	31.0		42		
	F	1	1.5	38	56.7	7	10.4	15	22.4			6	9.0		67		
	TOTAL (M+F)	1	0.9	53	48.6	16	14.7	20	18.3			19	17.4		109		
JULY 15	M			47	52.8	17	19.1	9	10.1			16	18.0		89		
	F	2	1.3	93	60.0	24	15.5	22	14.2			14	9.0		155		
	TOTAL (M+F)	2	0.8	140	57.4	41	16.8	31	12.7			30	12.3		244		
JULY 22	M			34	54.8	10	16.1	7	11.3			11	17.7		62		
	F			83	61.9	11	8.2	24	17.9			16	11.9		134		
	TOTAL (M+F)			117	59.7	21	10.7	31	15.8			27	13.8		196		
JULY 29	M	21	43.8	12	25.0	10	20.8					5	10.4		48		
	F	1	1.2	38	46.9	17	21.0	16	19.8			9	11.1		81		
	TOTAL (M+F)	1	0.8	59	45.7	29	22.5	26	20.2			14	10.9		129		
AUG. 05	M			4	57.1	1	14.3	2	28.6			1	7.7		7		
	F	5	38.5	5	38.5	2	15.4								13		
	TOTAL (M+F)			9	45.0	6	30.0	4	20.0			1	5.0		20		
<hr/>																	
1989																	
TOTAL MALE		2	0.6	23	6.8	135	39.9	68	20.1	42	12.4	0	0.0	68	20.1	338	
TOTAL FEMALE		0	0.0	37	6.5	284	49.7	90	15.8	100	17.5	1	0.2	59	10.3	571	
TOTAL (M + F)		2	0.2	60	6.6	419	46.1	158	17.4	142	15.6	1	0.1	127	14.0	909*	

*Note: There were 167 age samples not readable of 1076 samples taken.

APPENDIX 8. Weekly and annual mean hypural (HYP.) and nose/fork (N/F) lengths (mm) of sockeye by sex and age class.

WEEK ENDING	SEX	- - - 3 ₁	- - - 4 ₁	- - - 4 ₂	- - - 5 ₂	- - - 5 ₃	- - - 6 ₂	- - - 6 ₃
		HYP.	N/F	HYP.	N/F	HYP.	N/F	HYP.
JUNE 03	M		568	712		568	677	
	F							
JUNE 10	M	450	553	503	624	455	548	563
	F			476	585	470	571	544
JUNE 17	M	430	550	498	623	470	595	558
	F			487	599	482	594	548
JUNE 24	M		515	651	490	605	564	703
	F		475	589	488	600	549	677
JULY 01	M	498	612	507	620	571	691	533
	F	495	609	482	583	544	662	500
JULY 08	M		458	573	469	577	556	686
	F			473	577	537	647	485
JULY 15	M		485	590	468	579	518	647
	F			456	562	509	626	475
JULY 22	M			472	594	542	679	483
	F			449	558	522	649	468
JULY 29	M			473	595	531	673	490
	F			454	560	503	628	470
AUG. 05	M			466	571	455	565	485
	F			508	635	506	616	433
1989	M	440	552	512	642	473	588	541
MEAN	F		479	592	459	566	522	643

APPENDIX 9. Nass River daily and cumulative test fishing indices of escapement for sockeye, 1980 - 1989.

10 YR CUM.												10 YR CUM.																			
1980				1981				1982				1983				1984				1985				1986				1987			
DATE	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.	DAILY	CUM.													
JUNE 3	2.13	2.13																													
4	3.05	5.18	0.00	0.00	3.41	8.59	0.17	0.17	3.77	11.22	0.93	0.93	2.14	2.14	4.55	4.55	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.37	0.37	0.67		
5	2.80	7.98	1.33	1.33	3.21	11.19	1.29	1.29	5.84	16.46	5.94	5.94	2.14	2.14	4.55	4.55	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.37	0.37	1.18		
6	0.00	7.98	2.08	3.17	3.21	11.19	3.38	3.38	2.41	11.20	2.97	2.97	6.74	6.74	4.55	4.55	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.22	0.22	1.84		
7	0.00	7.98	1.43	4.84	3.77	7.15	0.93	0.93	2.97	11.22	2.04	2.04	5.84	5.84	4.55	4.55	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.22	0.22	2.59		
8	1.14	9.12	2.44	7.28	4.07	11.22	2.04	2.04	2.97	11.22	0.90	0.90	6.74	6.74	4.55	4.55	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.22	0.22	3.27		
9	1.43	10.55	2.56	9.84	6.17	17.39	0.57	0.57	3.54	17.39	1.85	1.85	8.59	8.59	1.94	1.94	16.78	16.78	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.22	0.22	4.57
10	1.78	12.33	3.71	13.55	12.69	30.08	0.93	0.93	4.47	14.05	1.60	1.60	14.05	14.05	5.46	5.46	18.38	18.38	0.00	0.00	0.16	0.17	0.17	0.17	0.16	0.17	0.00	0.00	0.22	0.22	7.15
11	2.50	14.83	4.47	18.02	10.95	41.03	1.66	1.66	6.13	22.24	2.41	2.41	16.46	16.46	0.49	0.49	18.87	18.87	0.00	0.00	0.16	0.21	1.81	1.81	0.00	0.00	0.22	0.22	12.43		
12	2.60	17.43	6.86	24.88	2.77	43.80	4.46	10.59	4.07	20.53	1.29	1.29	20.16	20.16	0.00	0.00	0.16	0.42	2.23	1.31	2.64	1.96	7.64	7.64	0.00	0.00	0.22	0.22	15.01		
13	4.44	21.87	6.05	30.93	1.00	44.80	2.59	13.18	3.89	24.42	0.37	0.37	20.53	20.53	0.60	0.60	0.76	0.63	2.86	1.85	4.49	3.16	10.80	10.80	0.00	0.00	0.22	0.22	17.46		
14	3.52	25.39	6.05	36.98	0.59	45.39	3.93	17.11	3.70	28.12	2.50	2.50	23.03	23.03	1.19	1.19	1.95	0.84	3.70	3.51	8.00	2.38	13.18	13.18	0.00	0.00	0.22	0.22	20.29		
15	3.64	29.03	7.04	44.02	1.89	47.28	5.13	22.24	7.54	35.66	3.17	35.66	26.20	1.03	1.03	2.98	1.05	4.75	3.05	11.05	1.51	14.69	14.69	0.00	0.00	0.22	0.22	23.79			
16	8.77	37.80	6.20	50.22	3.19	50.47	6.33	28.57	8.98	44.64	2.91	29.11	1.18	3.16	4.80	9.55	2.05	13.10	1.09	15.78	15.78	28.24	28.24	0.00	0.00	0.22	0.22	51.36			
17	11.00	48.80	1.33	51.55	4.48	54.95	4.47	33.04	6.61	51.25	5.52	34.63	0.97	4.13	3.24	12.79	1.05	14.15	0.74	16.52	16.52	32.18	32.18	0.00	0.00	0.22	0.22	58.00			
18	13.79	62.59	5.30	56.85	8.65	63.60	5.52	38.56	4.83	56.08	7.21	41.84	2.62	6.75	3.68	16.47	2.36	16.51	2.32	18.84	18.84	37.81	37.81	0.00	0.00	0.22	0.22	20.29			
19	7.24	69.83	2.37	59.22	11.77	75.37	9.32	47.88	9.43	65.51	6.11	47.95	5.22	11.97	5.16	21.63	1.43	17.94	6.18	25.02	44.23	0.00	0.00	0.22	0.22	44.23					
20	6.52	76.35	5.36	64.58	17.30	92.67	6.67	54.55	9.87	75.38	5.00	52.95	3.12	15.09	6.24	27.87	6.56	24.50	6.67	29.69	51.36	0.00	0.00	0.22	0.22	51.36					
21	4.88	81.23	12.00	76.58	12.81	105.48	5.34	59.89	10.31	85.69	7.10	60.05	1.02	16.11	3.93	31.80	7.17	31.67	1.85	31.54	31.54	58.00	58.00	0.00	0.00	0.22	0.22	58.00			
22	6.36	87.59	15.71	92.29	5.71	111.19	3.93	63.82	6.50	92.19	8.50	68.55	3.06	19.17	4.12	35.92	7.04	38.71	2.10	33.64	64.31	0.00	0.00	0.22	0.22	64.31					
23	7.60	95.19	2.68	94.97	7.68	118.87	3.57	67.39	4.61	96.80	6.24	74.79	4.00	23.17	4.30	40.22	6.91	45.62	4.44	38.08	69.51	0.00	0.00	0.22	0.22	69.51					
24	6.36	101.55	1.89	96.86	9.65	128.52	3.21	70.60	3.87	100.67	11.53	86.32	4.13	27.30	5.00	45.22	6.77	52.39	2.11	40.19	74.96	0.00	0.00	0.22	0.22	74.96					
25	5.42	106.97	5.26	102.12	14.19	142.71	5.00	75.60	0.00	100.67	12.55	98.87	3.21	30.51	5.89	51.11	5.05	57.44	2.46	42.65	80.87	0.00	0.00	0.22	0.22	80.87					
26	7.93	114.90	8.83	110.95	21.82	164.53	2.85	78.45	0.00	100.67	15.29	114.16	3.81	34.32	6.78	57.89	6.72	64.16	3.04	45.69	88.57	0.00	0.00	0.22	0.22	88.57					
27	4.90	119.80	10.64	121.59	16.66	181.19	5.83	84.28	1.04	101.71	10.81	124.97	6.62	40.94	4.52	62.41	12.09	76.25	3.54	49.23	96.24	0.00	0.00	0.22	0.22	96.24					
28	4.81	124.61	11.93	133.52	15.64	196.83	10.97	95.25	2.08	103.79	6.33	131.30	9.43	50.37	3.89	66.30	14.61	90.86	4.56	53.79	104.66	0.00	0.00	0.22	0.22	104.66					
29	7.68	132.29	16.66	150.18	12.26	209.09	5.00	100.25	2.96	106.75	10.99	142.29	12.63	63.00	4.39	70.69	6.18	97.04	3.60	57.39	112.90	0.00	0.00	0.22	0.22	112.90					
30	8.08	140.37	15.87	166.05	9.88	218.97	5.61	105.86	9.26	116.01	3.70	145.99	9.55	72.55	5.16	75.85	5.06	102.10	2.64	60.03	120.38	0.00	0.00	0.22	0.22	120.38					
JULY 1	6.29	146.66	10.17	176.22	7.00	225.97	6.21	112.07	5.29	121.30	0.00	145.99	13.42	85.97	4.49	80.34	3.94	106.04	2.81	62.84	126.34	0.00	0.00	0.22	0.22	126.34					
2	3.93	150.59	5.56	181.78	9.50	235.47	10.98	123.05	17.35	138.65	2.67	148.66	10.27	96.24	3.82	84.16	2.83	108.87	3.75	66.59	133.41	0.00	0.00	0.22	0.22	133.41					
3	9.64	160.23	9.68	191.46	8.98	244.45	9.51	132.56	15.00	153.65	4.19	152.85	8.53	104.77	3.15	87.31	8.70	117.57	3.89	70.48	141.53	0.00	0.00	0.22	0.22	141.53					
4	8.28	168.51	12.00	203.46	6.44	250.89	11.97	144.53	11.12	164.77	6.00	158.85	8.54	113.31	2.50	89.81	6.19	123.76	3.75	74.23	149.21	0.00	0.00	0.22	0.22	149.21					
5	4.26	172.77	10.83	214.29	6.38	257.27	11.45	155.98	7.24	172.01	7.81	166.66	8.54	121.85	5.20	95.01	5.71	129.47	7.34	81.57	156.69	0.00	0.00	0.22	0.22	156.69					
6	3.39	176.16	9.47	223.76	3.10	260.37	9.33	165.31	8.62	180.63	12.55	179.21	5.67	127.52	3.80	98.81	3.57	133.04	7.52	89.09	163.39	0.00	0.00	0.22	0.22	163.39					
7	8.78	184.94	11.93	235.69	4.77	265.14	7.63	172.94	7.19	187.82	14.17	193.38	3.69	131.21	6.85	105.66	8.23	164.27	7.70	96.70	171.9	0.00	0.00	0.22	0.22	171.9					

APPENDIX 9 Cont. Nass River daily and cumulative test fishing indices of escapement for sockeye, 1980 - 1989.

10 YR CUM.											
1980											
DATE	DAILY	CUM.	DAILY								
JULY 8	4.37	189.31	2.19	237.88	6.43	271.57	5.93	178.87	7.02	194.84	15.21
9	1.54	190.85	0.89	238.77	1.96	273.53	4.11	182.98	5.19	200.03	16.58
10	1.66	192.51	2.83	241.60	11.36	284.89	2.98	185.96	5.37	205.40	4.67
11	1.88	194.39	3.33	244.93	17.83	302.72	3.16	189.12	5.54	210.94	6.86
12	0.96	195.35	6.11	251.04	9.67	312.39	5.32	195.04	7.33	218.27	9.06
13	2.20	197.55	10.97	262.01	0.73	313.12	5.32	200.36	4.65	222.92	11.25
14	3.08	200.63	7.64	269.65	3.20	316.32	6.16	206.52	11.23	234.15	13.88
15	1.73	202.36	6.55	276.20	5.66	321.98	7.00	213.52	9.12	243.27	14.13
16	3.08	205.44	7.03	283.23	5.08	327.06	7.46	220.98	9.17	252.44	8.00
17	8.21	213.65	8.97	292.20	9.49	336.55	8.18	229.16	9.33	261.77	8.75
18	3.78	217.43	8.59	300.79	10.48	347.03	7.03	236.19	6.39	268.16	8.98
19	1.67	219.10	7.12	307.91	11.67	358.70	8.19	244.38	3.45	271.61	9.21
20	3.72	222.82	4.92	312.83	11.00	369.70	4.51	248.89	6.45	278.06	14.00
21	5.71	228.53	10.65	323.48	8.34	378.04	3.12	252.01	9.18	287.24	14.30
22	6.94	235.47	6.33	329.81	5.67	383.71	1.72	253.73	10.97	298.21	11.01
23	7.22	242.69	10.32	340.13	6.89	390.60	1.97	255.70	5.34	303.55	10.79
24	3.04	245.73	9.63	349.76	8.33	398.93	3.28	258.98	1.97	305.52	5.48
25	1.70	247.43	8.28	358.04	6.50	405.43	5.71	264.69	3.09	308.61	6.71
26	1.13	248.56	15.28	373.32	7.66	413.09	5.93	270.62	4.21	312.82	5.33
27	4.28	252.84	14.06	387.38	8.39	421.48	0.94	271.56	2.30	315.12	5.95
28	252.84	387.38	5.74	427.22	1.31	272.87	0.93	316.05	7.90	401.63	11.24
29	252.84	387.38	427.22	1.02	273.89	2.58	318.63	9.94	411.57	5.56	255.98
30	252.84	387.38	427.22	4.12	278.01	2.14	320.77	3.26	414.83	1.82	257.80
31	252.84	387.38	427.22	6.89	284.90	0.74	321.51	1.56	416.39	3.33	270.72
AUG. 1	252.84	387.38	427.22	284.90	321.51	416.39	3.20	263.51	2.20	274.72	4.00
2	252.84	387.38	427.22	284.90	321.51	416.39	3.88	267.39	2.28	278.41	3.69
3	252.84	387.38	427.22	284.90	321.51	416.39	1.57	279.98	228.09	258.82	3.12
4	252.84	387.38	427.22	284.90	321.51	416.39	2.77	279.98	228.09	258.82	2.45
5	252.84	387.38	427.22	284.90	321.51	416.39	1.57	279.98	228.09	258.82	2.09
6	252.84	387.38	427.22	284.90	321.51	416.39	1.57	279.98	228.09	258.82	1.52
7	252.84	387.38	427.22	284.90	321.51	416.39	2.77	279.98	228.09	258.82	2.45
8	252.84	387.38	427.22	284.90	321.51	416.39	1.57	279.98	228.09	258.82	2.12
9	252.84	387.38	427.22	284.90	321.51	416.39	1.57	279.98	228.09	258.82	2.59

APPENDIX 10. Nass River test fishing cumulative indices and escapements for sockeye, 1980 - 1989.

APPENDIX 10 Cont. Nass River test fishing cumulative indices and escapements for sockeye, 1980 - 1989.

APPENDIX 11. Nass River test fishing indices of escapement for chinook, 1980 - 1989.

APPENDIX 11 Cont. Nass River test fishing indices of escapement for chinook, 1980 - 1989.

		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990	
	DATE	DAILY	CUM.	DAILY	CUM.																		
	JULY 8	0.54	30.82	1.90	21.70	0.36	16.66	0.68	47.33	1.03	59.00	0.99	43.99	0.47	50.10	0.31	29.64	1.02	34.83	0.33	37.25	37.13	
	9	1.89	32.71	0.00	21.70	0.54	17.20	1.07	48.40	0.37	59.37	0.00	43.99	0.47	50.57	0.65	30.29	0.45	35.28	0.50	37.75	37.73	
	10	0.42	33.13	0.37	22.07	0.16	17.36	1.23	49.63	0.54	59.91	0.00	43.99	1.56	52.13	0.99	31.28	0.14	35.42	0.66	38.41	38.33	
	11	0.00	33.13	0.88	22.95	0.50	17.86	1.23	50.86	0.71	60.62	0.21	44.20	0.78	52.91	1.05	32.33	0.45	35.87	0.52	38.93	38.97	
	12	0.96	34.09	0.00	22.95	0.82	18.68	0.74	51.60	0.71	61.33	0.42	44.62	0.00	52.91	0.00	32.33	0.33	36.20	0.75	39.68	39.44	
	13	0.00	34.09	0.00	22.95	0.00	18.68	0.52	52.12	0.71	62.04	0.63	45.25	0.14	53.05	0.81	33.14	0.67	36.87	0.38	40.06	39.83	
	14	0.00	34.09	0.35	23.30	0.51	19.19	0.57	52.69	2.23	64.27	0.68	45.93	0.71	53.76	1.69	34.83	0.34	37.21	0.00	40.06	40.53	
	15	0.38	34.47	0.00	23.30	1.02	20.21	0.61	53.30	0.53	64.80	0.70	46.63	0.46	54.22	0.00	34.83	0.00	37.21	0.79	40.85	40.98	
	16	0.00	34.47	0.35	23.65	0.84	21.05	0.47	53.77	2.17	66.97	0.17	46.80	0.32	54.54	0.43	35.26	0.35	37.56	0.00	40.85	41.49	
	17	1.09	35.56	0.00	23.65	0.17	21.22	0.15	53.92	1.00	67.97	0.94	47.74	0.34	54.88	0.85	36.11	0.68	38.24	0.00	40.85	42.01	
	18	0.74	36.30	0.69	24.34	0.32	21.54	0.49	54.41	1.19	69.16	0.47	48.21	0.33	55.21	0.14	36.25	0.84	39.08	0.00	40.85	42.54	
	19	0.93	37.23	0.00	24.34	0.67	22.21	0.15	54.56	1.38	70.54	0.00	48.21	0.31	55.52	0.24	36.49	0.99	40.07	0.00	40.85	43.00	
	20	0.19	37.42	0.18	24.52	0.66	22.87	0.00	54.56	1.76	72.30	1.60	49.81	0.14	55.66	0.13	36.62	0.00	40.07	0.00	40.85	43.47	
	21	0.00	37.42	0.33	24.85	0.33	23.20	0.16	54.72	0.82	73.12	0.00	49.81	0.56	56.22	0.46	37.08	0.32	40.39	0.00	40.85	43.77	
	22	0.39	37.81	1.33	26.18	0.00	23.20	0.31	55.03	0.32	73.44	0.58	50.39	0.55	56.77	0.28	37.36	0.63	41.02	0.00	40.85	44.21	
	23	0.00	37.81	0.30	26.48	0.34	23.54	0.00	55.03	1.04	74.48	0.26	50.65	0.47	57.24	0.25	37.61	0.18	41.20	0.00	40.85	44.49	
	24	0.42	38.23	0.37	26.85	0.17	23.71	0.35	55.38	0.36	74.84	0.00	50.65	0.49	57.73	0.15	37.76	0.36	41.56	0.00	40.85	44.76	
	25	0.56	38.79	0.89	27.74	0.67	24.38	0.32	55.70	0.27	75.11	0.29	50.94	0.50	58.23	0.00	37.76	0.00	41.56	0.00	40.85	45.11	
	26	0.00	38.79	0.18	27.92	0.16	24.54	0.00	55.70	0.18	75.29	0.39	51.33	0.52	58.75	0.12	37.88	0.00	41.56	0.15	41.00	45.28	
	27	0.00	38.79	0.00	27.92	0.16	24.70	0.32	56.02	0.52	75.81	0.14	51.47	0.00	58.75	0.00	37.88	0.24	41.80	0.30	41.30	45.44	
	28	0.00	38.79	0.00	27.92	0.17	24.87	0.33	56.35	0.74	76.55	0.25	51.72	0.92	59.67	0.13	38.01	0.17	41.97	0.46	41.76	45.76	
	29	0.00	38.79	0.00	27.92	0.24	24.87	0.00	56.35	0.00	76.55	0.24	51.96	0.83	60.50	0.14	38.15	0.00	41.97	0.17	41.93	45.90	
	30	0.00	38.79	0.00	27.92	0.24	24.87	0.00	56.35	0.72	77.27	0.31	52.27	0.15	60.65	0.26	38.41	0.00	41.97	0.14	42.07	46.06	
	31	0.00	38.79	0.00	27.92	0.24	24.87	0.00	56.35	0.00	77.27	0.00	52.27	0.10	60.75	0.00	38.41	0.00	41.97	0.00	42.07	46.07	
AUG. 1		38.79	27.92	24.87	56.35	77.27	52.27	0.05	60.80	38.41	41.97	0.35	42.42	46.11									
2	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.42	46.11									
3	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.30	42.72	46.14									
4	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									
5	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									
6	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									
7	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									
8	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									
9	0.00	38.79	27.92	24.87	56.35	77.27	52.27	0.00	60.80	38.41	41.97	0.00	42.72	46.14									

APPENDIX 12. Relationship between the annual Nass test fishery sockeye index of spawning escapement and recorded annual escapement past test fishery from 1963 to 1989.

YEAR	ESCAPEMENT PAST TEST FISHERY	TOTAL TEST FISHERY INDEX	SPAWNERS PER INDEX	PREDICTED ESCAPEMENT
1963	N/A	182.70	--	--
1964	163845	269.73	607	134890
1965	141242	222.81	634	111405
1966	113039	181.98	621	90990
1967	86713	190.72	455	95360
1968	104542	265.26	394	132730
1969	182312	253.48	719	--
1970	119112	288.49	413	115396
1971	252844	362.95	697	145180
1972	181230	235.18	771	94072
1973	292331	488.56	598	262625
1974	201403	319.69	630	175610
1975	85674	215.76	397	118668
1976	165305	303.76	544	167068
1977	424821	466.28	911	256454
1978	156818	269.70	581	148335
1979	222751	284.56	783	182418
1980	163088	252.84	645	151704
1981	265596	387.38	686	259746
1982	321251	427.22	752	260450
1983	192782	284.90	677	174599
1984	193650	321.51	602	198050
1985	373349	416.39	897	254831
1986	197072	279.98	704	181987
1987	191160	228.09	838	150670
1988	145457	258.82	562	181174
1989	119826	273.91	437	184889
AVG. 64-89	194508	298.08	653	162665
AVG. 64-74	167147	279.90	597	123478
AVG. 75-84	219174	321.39	682	191749
AVG. 80-89	216323	313.10	691	199810

Note: 1. Esc. past test fishery = spawning esc. + I.F.F. catch data.
 2. Spawners per index = esc. past test fishery / total test fishery index.