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Skeena River Salmon Test Fishery, 1987

L. Jantz, R. Kadowaki and B. Spilsted

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

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Canadian Data Report of Fisheries and Aquatic Sciences

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SALMON TEST FISHERY, 1987

by

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R. Kadowaki
B. Spilsted

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

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ABSTRACT.

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Information relating to the Skeena River gillnet test fishery program for 1987 and a summary for the years 1955 to 1976 is presented in this report. Daily catch of all salmon species (Oncorhynchus sp.) and steelhead trout (Salmo gairdneri) are detailed by set along with age, sex, and length data.

Fishing dates, set times, actual fishing times and tide cycle information are presented. Daily index (catch per hour) calculations are tabulated for all salmon species and steelhead trout. Daily, weekly and cumulative escapement estimates for sockeye and pink salmon are also provided.

RÉSUMÉ.

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Ce rapport contient des données fournies par le Programme des pêches expérimentales au filet maillant pour l'année 1987 ainsi qu'une récapitulation portant sur les années 1955 à 1976. Les prises quotidiennes de toutes les espèces de saumons (Oncorhynchus) et de truite arc-en-ciel (Salmo gairdneri) sont données pour chaque immersion de filet, avec l'âge, le sexe et la longueur des poissons.

Le rapport indique les dates, les heures des immersions de filet, la durée précise de la pêche et le cycle des marées. Un tableau quotidien des prises (par heure) est établi pour toutes les espèces de saumons et pour la truite arc-en-ciel. Le rapport fournit aussi une évaluation quotidienne, hebdomadaire et cumulative du nombre de saumons sockeye et de saumons roses qui ont échappé au filet.

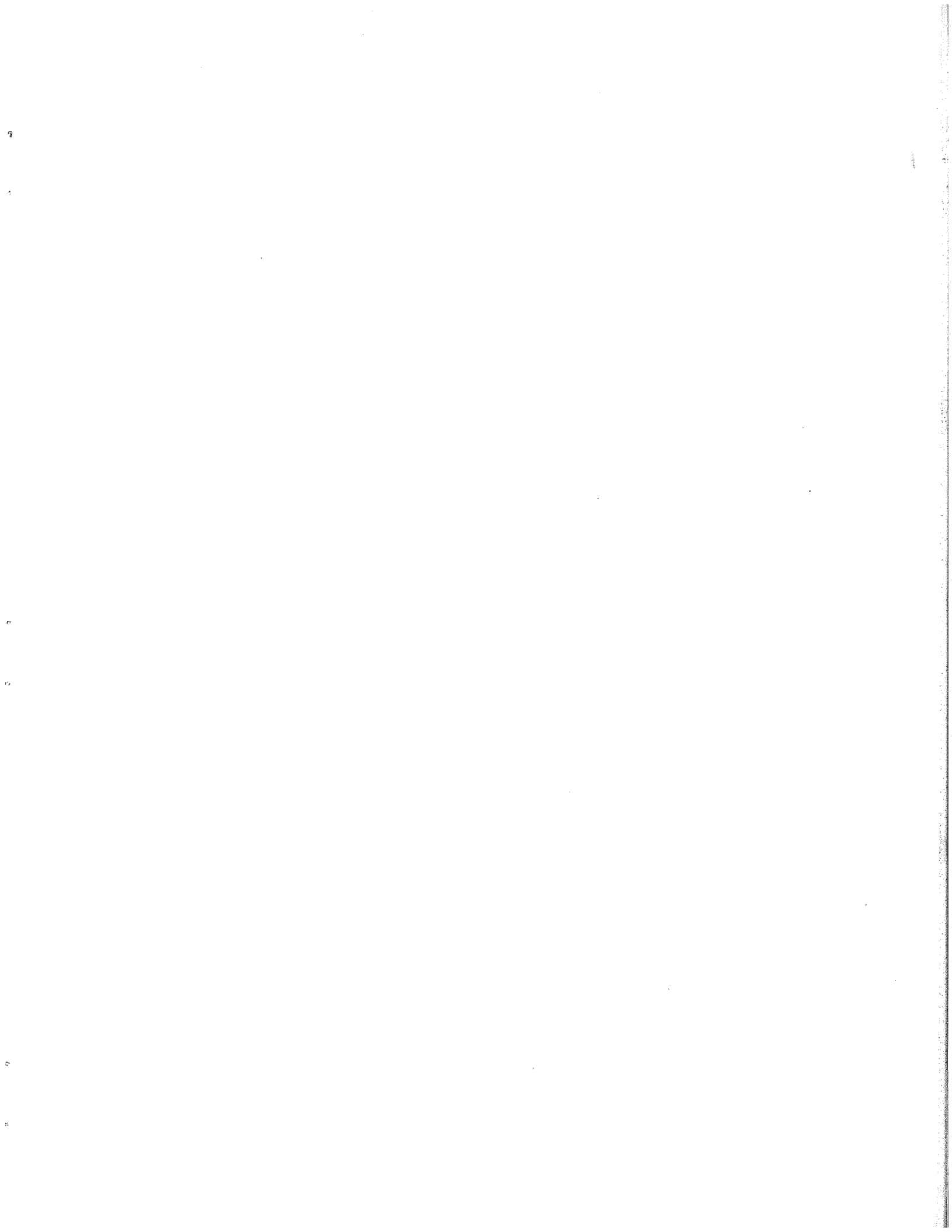
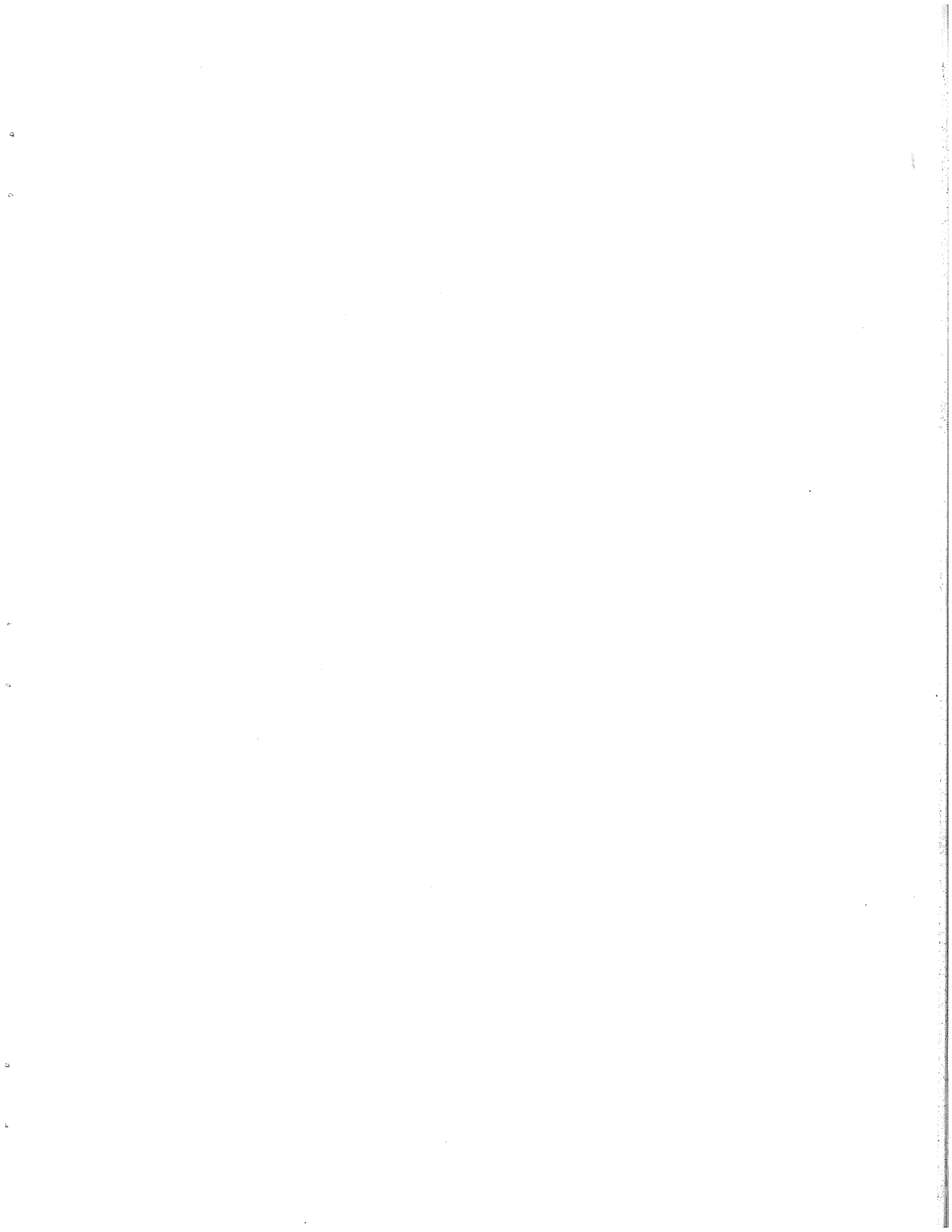


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1.0 INTRODUCTION

Gillnet test fishery operations have been conducted at Tye in the lower Skeena River since 1955, in order to evaluate the magnitude of Skeena River salmon and steelhead trout returns (Kadowaki, 1977, Appendix 1).

This program was developed to provide daily estimates of sockeye and pink escapements through the commercial fishery. The data obtained from this operation, combined with estimates of the commercial catch in Area 4, provides a complete picture of the sockeye and pink runs as they develop each year. This information is considered essential for the effective management of all Skeena salmonid species.

Although daily escapement estimates are not calculated for the other species (chinook, coho, chum and steelhead), relative abundance and timing is determined by comparing the calculated indices for a given year to those recorded in previous years.

The purpose of this report is to document all information collected during the 1987 test fishery program.

2.0 METHODS

A complete description of the test fishery operations (ie., site location, equipment and methodologies) is provided in Appendix 1 (Kadowaki, 1977), for the period 1955 to 1976.

The Silver Token, a 12 m. fiberglass gillnet fishing vessel was chartered by the Department of Fisheries and Oceans following standard contractual arrangements (Appendix 2).

Test fishing operations commenced on June 9, 1987 and ended on September 6, 1987. Procedures were identical to those described in Appendix 1 (Kadowaki, 1977).

In addition to estimating the relative abundance and escapement of salmon and steelhead trout, numerous biological samples were collected as detailed in Appendix 3.

3.0 RESULTS

A total of 3,828 large sockeye, 353 jack sockeye, 720 large chinook, 137 jack chinook, 194 coho, 5,398 pink, and 122 chum salmon, and 336 steelhead trout were captured during test fishing operations in 1987.

Daily test fishing information is provided in Appendix 4. Fishing dates, set times, actual fishing time and catch by species are presented. Tide cycle information, presented in Appendix 5, is used to determine the exact time when sets are to be made as described in Appendix 1. The actual fishing time is calculated by the following formula:

Actual fishing time = $1/2(\text{set time}) + \text{fishing time} + 1/2(\text{pick time})$

An example of the above calculation is presented in Appendix 1.

Information relating to weather conditions (wind, rain and sky) and number of seals observed along the net are not included in this report, however they are available from the Department of Fisheries and Oceans Management Biology Unit files in Prince Rupert B.C..

Appendix 6 presents the indices or catches per hour for each set along with the daily averages for all salmon species and steelhead trout. Daily indices for pink salmon are calculated by averaging the high tide and low tide catches per hour separately before the final average is calculated (Appendix 7).

Daily, weekly and cumulative escapement estimates for sockeye and pink salmon are provided in Appendix 8. In addition, weekly and cumulative escapement targets for both species are included. The methods used in calculating the escapements for sockeye has evolved from an escapement per index conversion to a timing based regression to a weekly escapement to a weekly index regression. More recently, since 1985, sockeye escapements have been estimated by regressing the escapement per index unit against mean post orbital hypural length. Escapement estimates for pink salmon have been calculated exclusively by using an escapement per index conversion. Initially 1000 was used as the index conversion which has since been increased to 1300 in the early 1980's and 1500 in 1987.

Age, sex and length information for sockeye, coho, chum and chinook salmon and steelhead trout are provided in Appendices 9 to 13. Appendix 14 presents length and sex information for pink salmon sampled at the test fishery.

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APPENDIX 1. The Skeena River gillnet test fishery, 1955 to 1976
(Kadowaki, 1977).

INTRODUCTION

The Skeena River Salmon Management Committee was established in 1954 to investigate the condition and improve the management of the Skeena River salmon stocks. In addition, the annual yield was to be increased if and where possible.

To manage the fishery to provide for the highest sustained yield, an accurate daily estimate of spawning escapement just above the commercial fishery was necessary. This type of immediate information on stock strength greatly assists in regulating commercial fishery openings and closures, so as to make optimum use of the fishery as a cropping tool.

It was because of this need that a test fishery was established at Tye (Fig. 1), just above the upriver commercial fishing boundary. A test fishery would provide data on sex, length and age composition of the escapement. This information could be used with the corresponding commercial data to trace the timing of individual stocks, as well as for basic inventory purposes (for between-years comparisons on the Skeena and comparisons with other systems). A tagging program was also planned in conjunction with the test fishery to determine timing from the commercial fishing boundary to the spawning grounds.

Beginning in 1955, two local gillnet boats with their skippers were chartered to carry out the program, assisted by two seasonal workers under the supervision of a technician. This arrangement continued until 1965, after which only one fishing boat which had shown consistent results, was hired. Tagging at the test fishing site was conducted for a number of seasons but was discontinued in favor of more seaward locations.

The purpose of this report is to present a technical description of the present Skeena River test fishery. In addition, previous methods of calculating the escapement estimate from test fishing catches are examined. Some of the sampling data collected is examined and discussed briefly at the end of the report.

METHODS

Description of Site

The estuary of the Skeena River exhibits the greatest tidal fluctuations on the Canadian Pacific coast (Can. Tide and Current Tables). Tidal differences of over six meters, common during spring tides, generate tidal currents of three to four knots in some areas. Debris-carrying tide rips, unusual current patterns and sandbars, make the setting of a commercial length gillnet in the Tye area a very difficult procedure. The net is allowed to drift, within a channel measuring two to five kilometers long and 0.8 kilometers wide, that runs parallel to the northern shoreline. The upriver and downriver extremities of the channel are marked by a rock outcrop about 0.8 kilometers upriver from the test fishing dock, and by the Tye railway station, 0.9 kilometers downriver from the dock. Its southern edge is clearly defined by sandbars, which are exposed at low tide.

Commencement and termination dates for the test fishing operation for the last ten years are listed in Table 1.

Table 1: Dates of commencement and termination for the Skeena test fishery for the years 1967 to 1976.

Year	Commencement	Termination
1967	June 14	August 27
1968	June 16	August 25
1969	June 13	August 30
1970	June 14	August 21
1971	June 14	August 27
1972	June 15	August 25
1973	June 14	August 28
1974	June 17	August 28
1975	June 16	August 26
1976	June 13	August 27
1967-76 Avg.	June 15	August 27

Logistics

Maintenance on the test fishery is minimal and routine. The test fishing dock is 34 highway kilometers from Prince Rupert, the nearest centre of population. The charter boat does not have to leave the test fishing site during the season, as all supplies can be trucked in by the technician. The test fishing net is changed every 16 days and taken to the Sunnyside Plant of the British Columbia Packing Company for repair and replacement. The fish caught are transported to the Atlin Fish Plant of the Canadian Fishing Company Limited in Prince Rupert, and ice is brought back to the test fishing site.

Equipment

The net used in the Skeena test fishery is an undyed, fibrous nylon gillnet of 200 fathoms total length and 20 feet depth, made up of ten equal length panels of mesh sizes 3.5 inches to 8 inches (Table 2). A twisted seven-ply twine was used up until 1969; however, since then, a limper, untwisted material has been used. This newer material is considered to be more efficient; however, test fishing catches are not indicative of this.

Table 2: Webbing specifications for the Skeena test net.

Panel No.	Twine Wt.	Mesh Size	Mesh Depth	Length(ftms)
1	#33	3.5	63	40
2	#33	4.0	55	40
3	#33	4.5	49	40
4	#43	5.0	44	40
5	#53	5.5	40	40
6	#63	6.0	37	40
7	#63	6.5	34	40
8	#83	7.0	31	40
9	#83	7.5	29	40
10	#83	8.0	27	40

The net is hung in a 2:1 ratio (webbing:finished net length) as opposed to the 2.5:1 ratio found in "outside" commercial nets and the 3:1 ratio found in "river" nets. This characteristic of the sampling net prevents excessive catches, which are not required in the test fishing operation. The size range of the meshes was selected to minimize intra-species size selection in capture of the migrating stocks of all salmon species, as well as steelhead trout. The body morphology, as well as other physical and behavioural characteristics of the individual species, however, inevitably leads to inter-species variations in catch.

Methodology

Timing of Sets

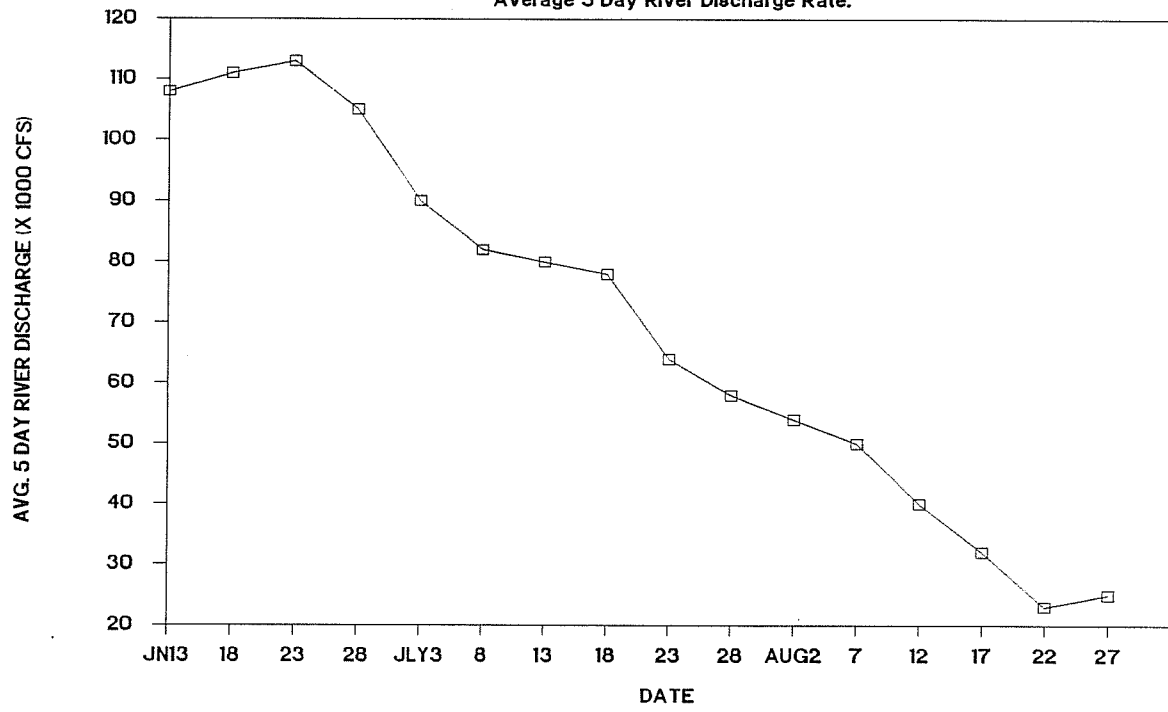
Set times for the Skeena test fishery vary according to two parameters. The first of these is tide height, i.e., the height of a particular tide above Chart Datum. The second factor is the discharge of the river. Spring freshets generally reach their peak in the month of June and taper off gradually throughout the summer (Fig. 2).

Sets are made on both high and low water slack during daylight hours. This usually results in three sets a day, but sometimes only two can be made. Set times are determined primarily by the unidirectional drift potential (UDP) of the current, i.e., how far the current will take the net in a single direction during the one-hour time span of the set. The importance of the UDP lies in the fact that the distance covered by a particular drift must fall within constraints imposed by both time and depth of water; time in the sense that drifts must be exactly an hour long, and river depth because of the rather restrictive channel passable to the test fishing gillnet. The UDP is governed by a combination of factors, the primary one being tide height and the river discharge rate. Spring tides, caused by the new and full moons, have far greater ranges between low and high tides than do the neap tides that occur during the first and last quarters of the cycle. Correspondingly, spring ebb and flood flows are greater than their respective neap counterparts.

A. Low tide sets - The time of low water slack at the test fishing site is delayed relative to the tide book time because of the effect of the

Fig. 2 Skeena Test Fishery.

Average 5 Day River Discharge Rate.



river discharge. This is only a delay in the term of the direction of the surface current and does not affect the actual lunar ebb and flood. Discharge, being greater in the early part of the season, causes the delay of low water slack at this time to be the greatest of the season. This delay is also accompanied by a strong ebb flow, creating a high UDP. Thus, a set at this time of the season must be about a half an hour later in relation to the tide book time, than during low flow periods later on (Fig. 3a, 3b).

Spring and neap tides have their own very distinct flow characteristics. Spring tides tend to ebb at a very high velocity and then very abruptly begin to flood at an equally quick rate. Since the set must be of an hour's duration and cover a certain limited distance, the timing of the set must be very precise. Since the UDP of spring low tides is very high, sets must be made just before the current change, to avoid excessive downriver drift. Neap low water sets require less precision, as currents are slower and the tide change is not as marked as it is for spring tides. Consequently, to cover the required distance, the set must be made sooner than for spring tides.

B. High tide sets - The spring freshet advances the time of tidal current change at high water by about 40 minutes, causing the timing of the high tide set to be similarly advanced. Later on in the season as discharge rates drop, the set times become later (Fig. 3c, 3d).

Once again, as is the case with low tide sets, the primary factors governing the timing of the set are the maximum drift distance, determined by the presence of shallow water over sandbars, and the one-hour duration of each drift. Spring high tides, with their associated high current velocities, delay the high tide set times. Inaccuracy in timing of these sets could increase the UDP to undesirable levels in either direction of the set. Neap high tides require less accuracy because of their slower current velocities and consequent low UDP's.

Location of Sets

A. Low tide sets - Low tide sets are made a point about 0.8 kilometers above the test fishing dock, at the base of a solid rock outcrop. The buoy is dropped adjacent to the outcrop, and the net is set outward in a slight downriver direction. If the wind is calm or if it is originating from a downriver source, the net must be towed in a downriver direction for the full downriver component of the set, to maintain a perpendicular orientation to the shore. Failure to do so will cause the net to become parallel to the shoreline, and consequently not fish at the required efficiency. This type of flow pattern is due to the fact that the middle of the river tends to exhibit tide change characteristics somewhat earlier than the periphery, resulting in the slower drift velocity at the boat end of the net. A downriver wind counteracts this effect so that no towing is necessary.

The principal strategy of the set then, is to keep the net perpendicular to the beach and to cover the required distance down to a point just below the tourist lookout (Fig. 4).

B. High tide sets - The high tide set is made at a point just downstream

Fig. 3A Skeena Test Fishery.

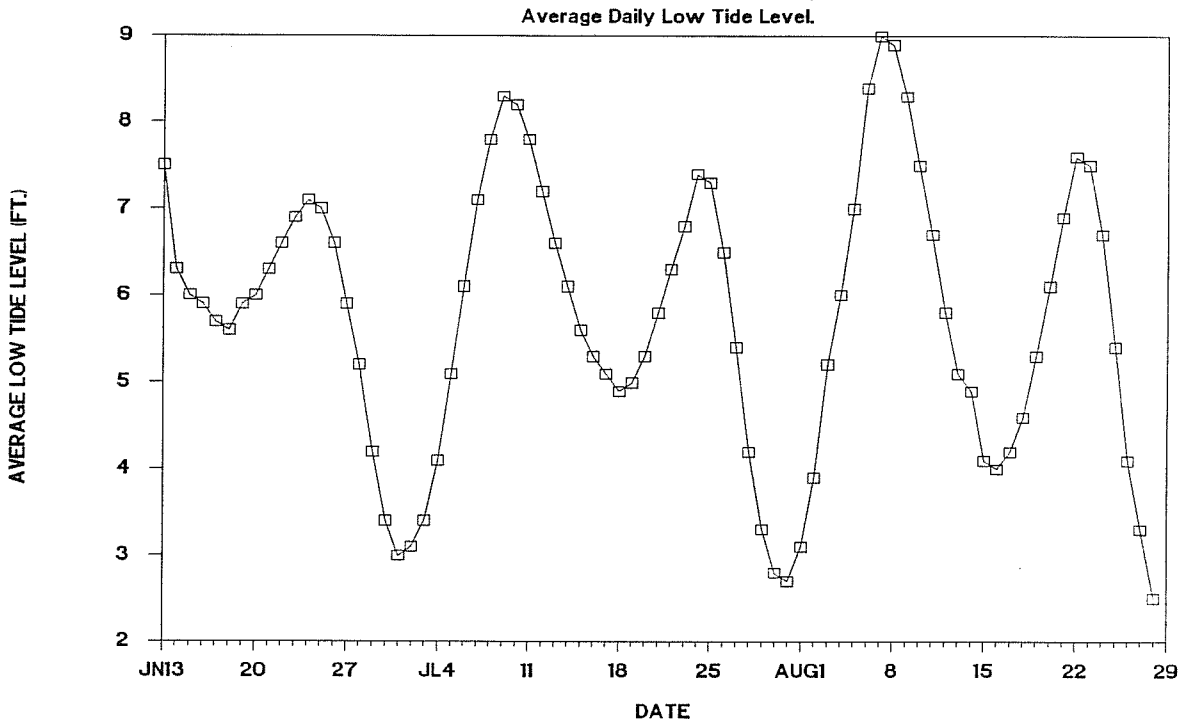


Fig. 3B Skeena Test Fishery.

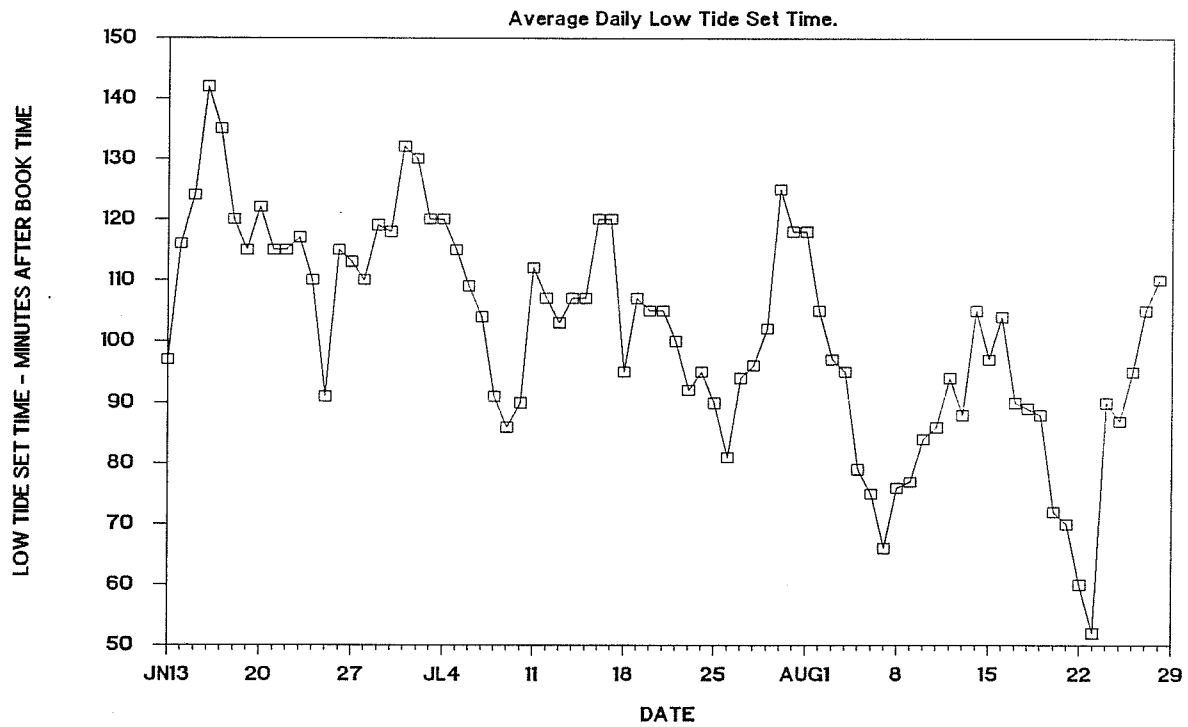


Fig. 3C Skeena Test Fishery.

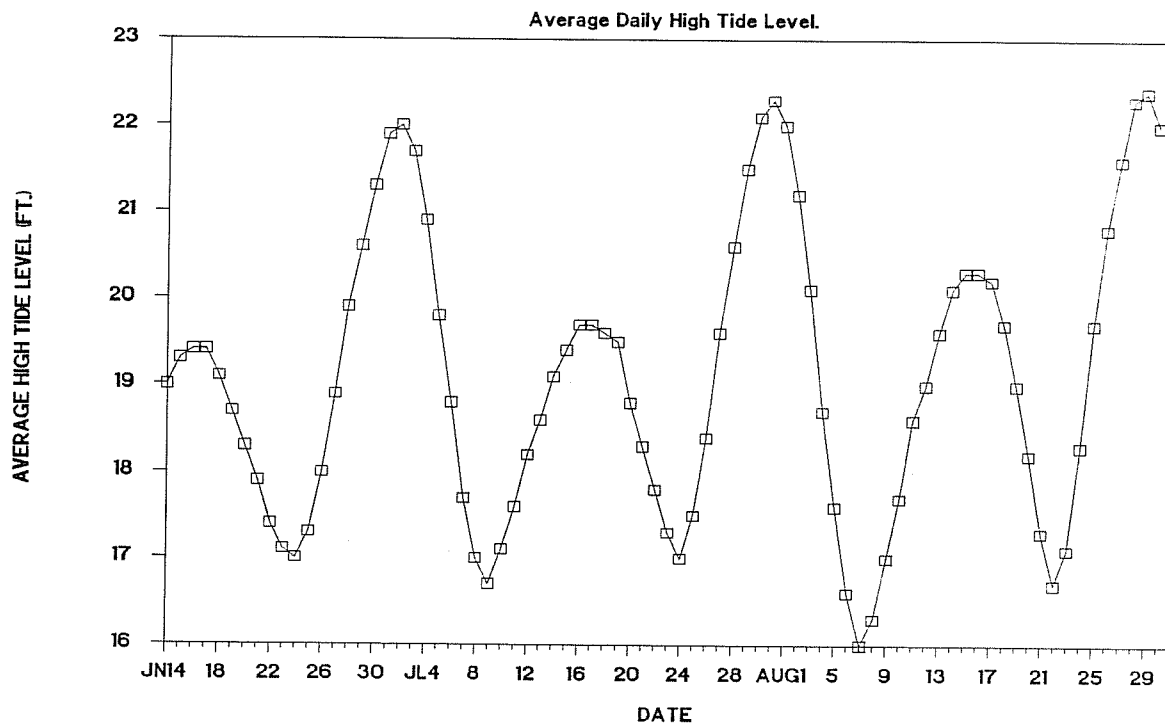
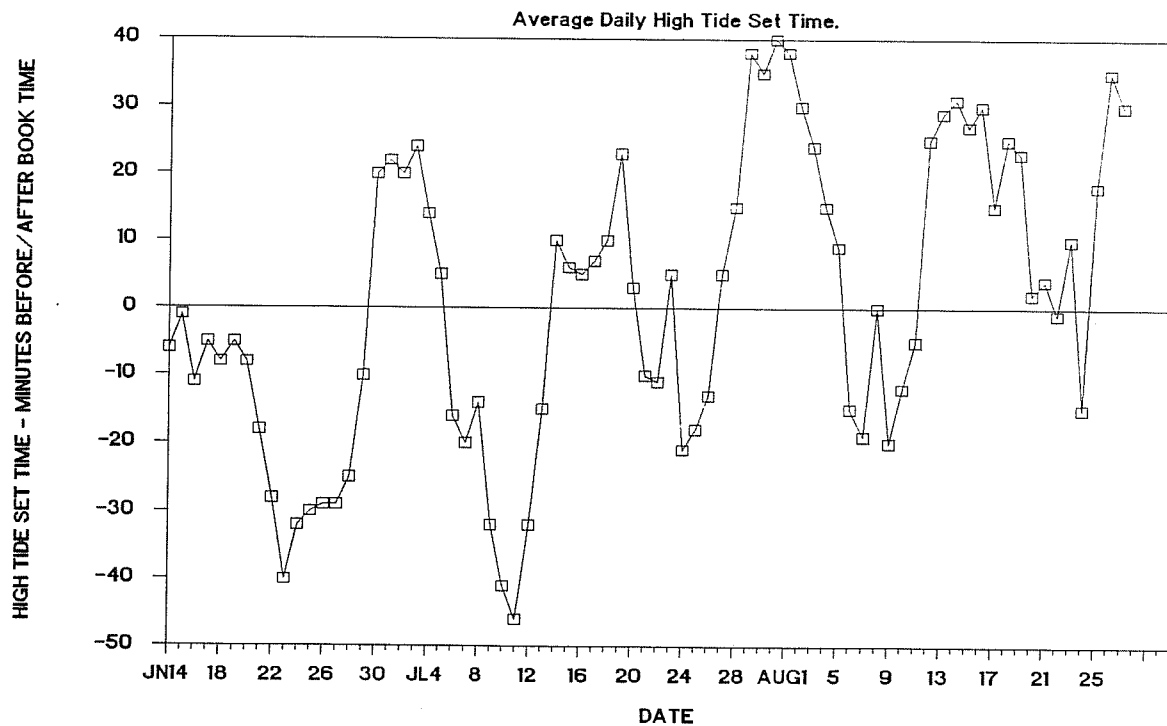


Fig. 3D Skeena Test Fishery.



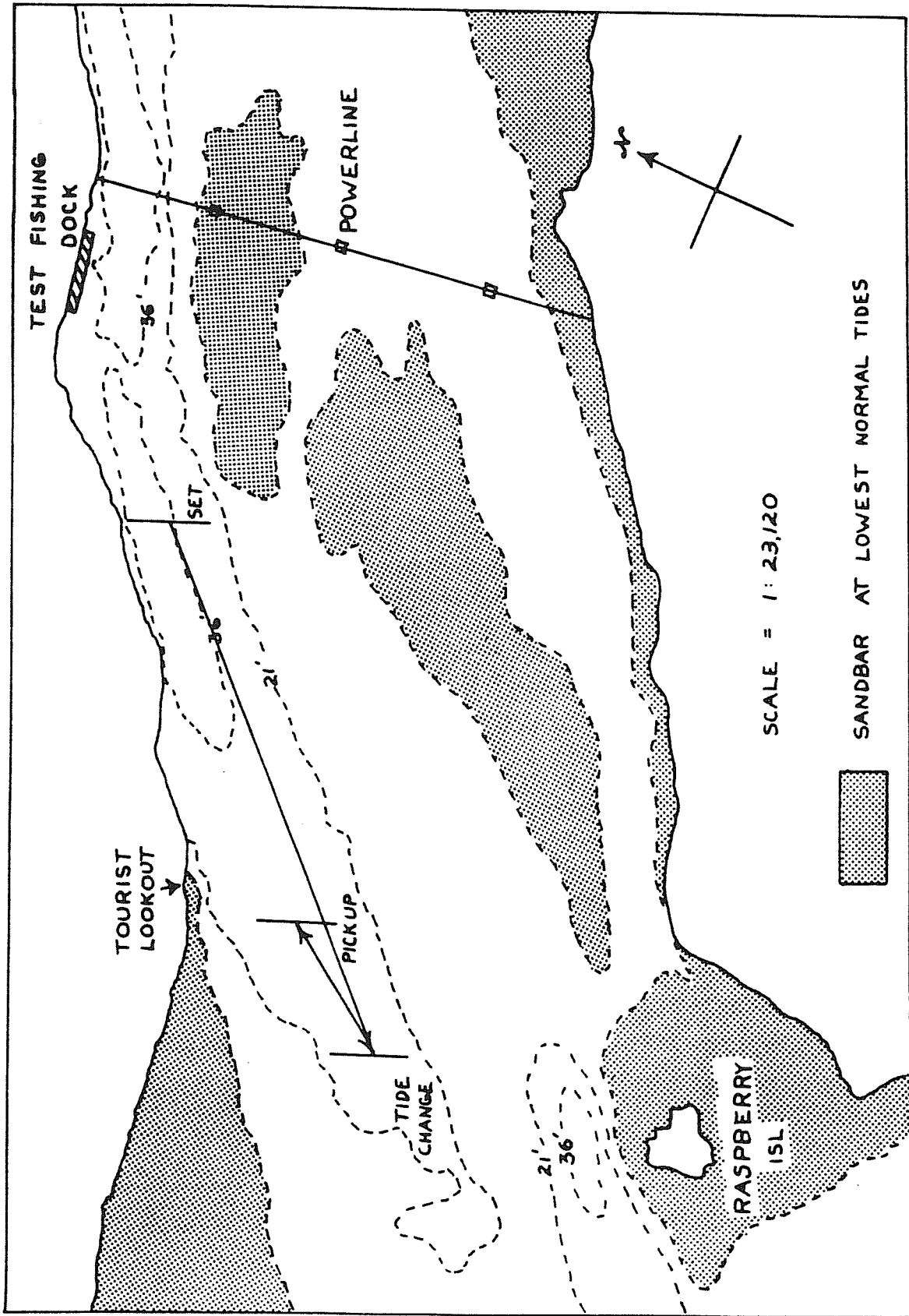


Figure 4. Low tide set location.

from the test fishing dock in water of 8 to 10 meters depth, depending upon the actual height of the tide. The set is made in a shoreward direction, leaving the net approximately 150 meters from the shore when the net is completely set. The net should drift upstream past the dock and stop somewhere between the dock and the rock outcrop. The ebb flow should not carry the net back further than the dock for proper sampling (Fig. 5).

One factor associated with high tide sets and not with low tide sets is the presence of a debris-carrying tide rip, that occurs about 100 to 150 meters from, and parallel to, the shoreline (Fig. 6). The currents on either side of this rip move at different velocities; therefore, a set across this rip zone could cause the net to bend at the rip and eventually align itself with it, as well as pick up a large amount of debris. Therefore, the net is set so that the shore end lies just outside of the rip.

Another factor peculiar to high tide sets is that for some sets, the net tends to pull away from the shore, towards the sandbars in the middle of the river. This pull is unpredictable and must be counteracted by towing the net shoreward.

Small variations in the distance covered by any drift are inevitable and expected because of irregularities in daily discharge rates, local wind and debris conditions. In addition, adjustments to the one-hour duration of the set are sometimes unavoidable. However, since escapement estimates are based on catches per hour, any deviations can be corrected for by adjusting the catch per hour figure.

RESULTS

Test Fishing as an Index of Escapement

In the early years of the test fishing operation, estimates of pink and sockeye escapements were made using indices derived from previous years data, by dividing the total annual upriver escapement by the annual sum of the average daily catch per hour (Table 3).

Table 3: Test fishing indices and escapement abundance for Skeena pinks and sockeye, 1955 to 1961.

Year	Sum daily catch/hr		Total escapement ($\times 10^3$)		Index	
	Sockeye	Pink	Sockeye	Pink	Sockeye	Pink
1955	377	1,672	125	987	333	584
1956	832	522	447	202	537	387
1957	769	1,929	547	868	711	451
1958	1,153	1,149	935	556	811	484
1959	1,110	1,909	866	1,383	780	725
1960	407	195	321	215	789	1,104
1961	1,156		1,011		875	

In 1962, the Fisheries Research Board derived a time-based regression equation to calculate an improved test fishing index for sockeye. Tagging studies conducted since 1958 at the test fishing

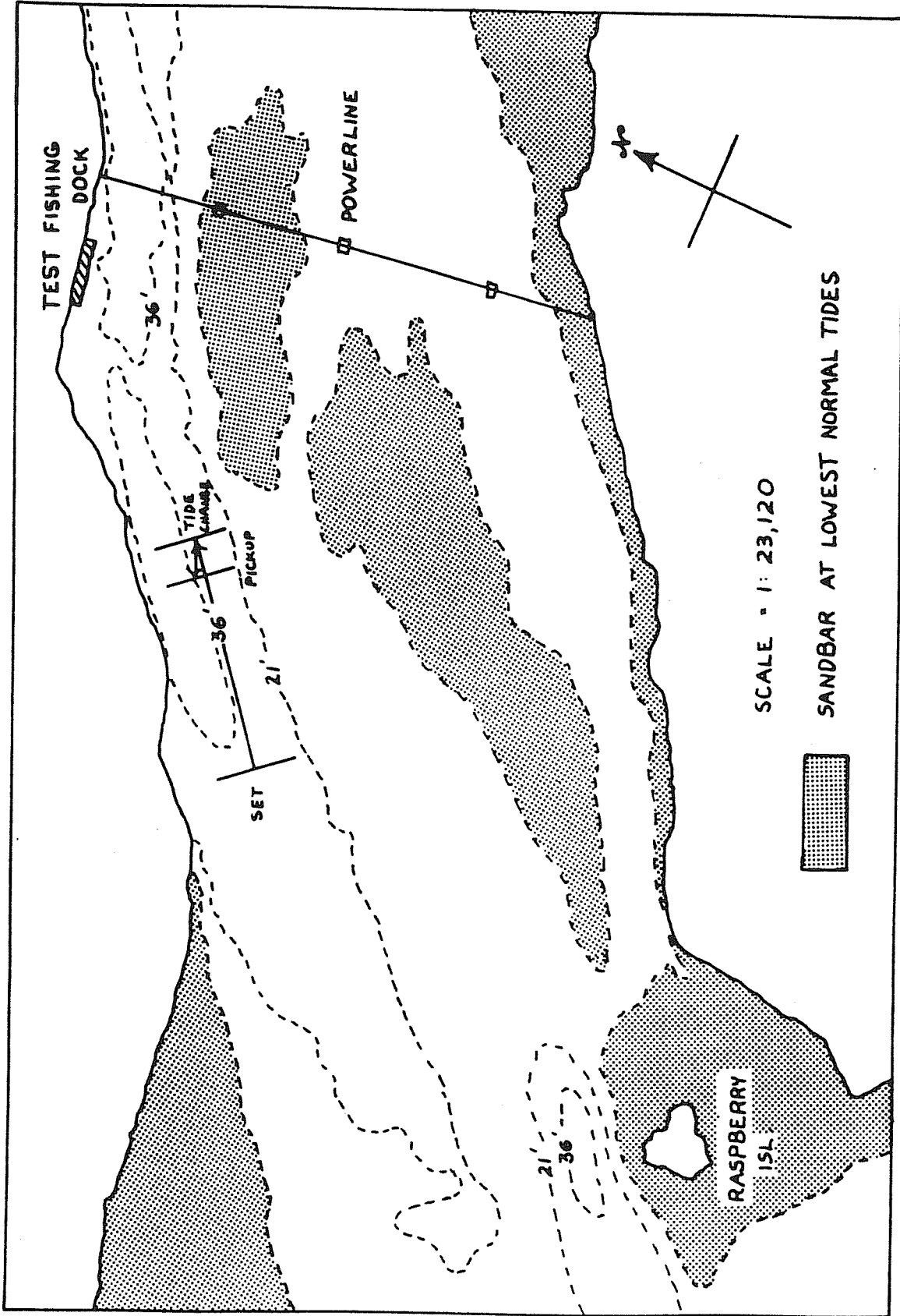


Figure 5. High tide set location.

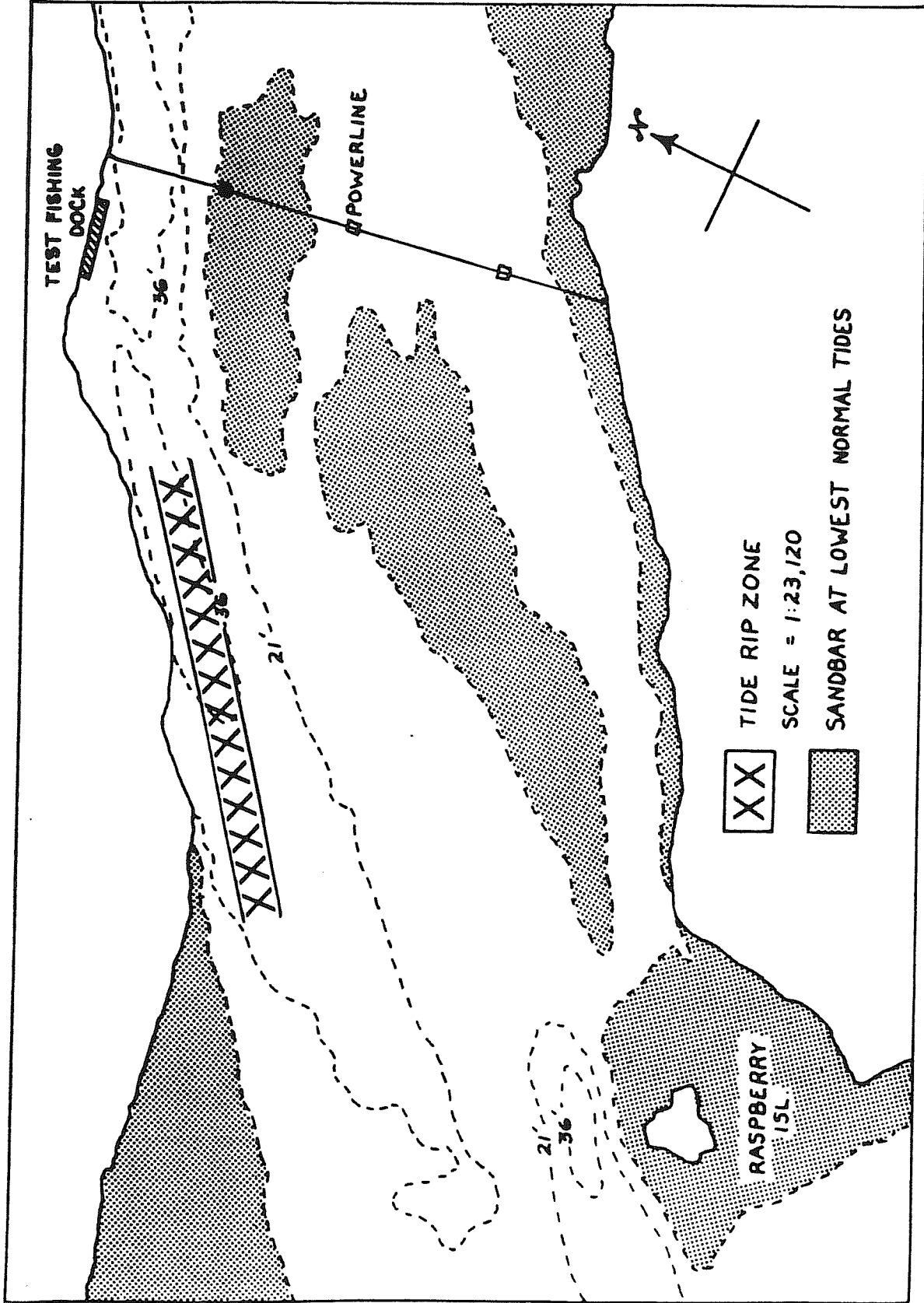


Figure 6. Tide rip zone.

operation were used to pre-date sockeye counts at the Babine counting fence to their corresponding time of passage at the test fishing site. Test fishing catches were then related to fence counts in this time-related manner for the years 1958 to 1961, resulting in the following regression: $Y = 9.14X + 660.5$, where Y is the daily test fishing factor and X is the day.

This technique assumes a number of conditions. Firstly, the efficiency of the net towards sockeye is assumed constant. In reality though, it may in fact decrease as the season progresses due to one or more of the following: 1) different sub-stocks may have different migration routes; 2) the physical size of different fish of the same species may vary, e.g., male-female or 4sub2 - 5sub2 dichotomy; 3) larger numbers of fish of other species later in the season may lead to gear saturation towards sockeye. Secondly, it is assumed that the migration rate is constant for all stocks. However, Takagi and Smith (1973) have shown that there may be differential migration rates throughout the season. Moreover, tagging studies conducted in 1966 along with other data analyses (anon., 1967) strongly suggested that the rate of migration of sockeye salmon up the Skeena increased during the season. Thus, the use of average migration rates forces an increasing number of fish into a constant seven-day time period for fence arrivals, resulting in an apparent drop in test fishing efficiency.

Errors in escapement estimates of over 40 percent occurred using the above method, and since there is no mechanism for inserting corrections, inadequacies in the original equation cannot be weeded out.

Therefore, a regression of weekly escapements with weekly sums of daily test fish catches per hour was calculated for the 1969 season using the data from 1966 to 1968. Weekly escapements were calculated by multiplying the actual counted escapement to the entire Skeena system by the weekly sum of the average daily catch per hour, expressed as a percent of the total season's catch. New data points can be added, and a new regression equation calculated annually. For the years 1969 to 1975, the percent errors of the estimated escapement when compared to the actual have averaged nine percent (Table 4).

Table 4: Accuracy of test fishing estimates of sockeye and pink escapements.

Year	Regression Equation Sockeye	Estimated Escapement (1,000's of fish)		Actual Escapement (1,000's of fish)		Percent Error	
		Sockeye	Pink	Sockeye	Pink	Sockeye	Pink
1969	612X-187.5	681	917	704	873	+3	-5
1970	627X-147	641	912	722	923	+13	+1
1971	645X-236	806	961	885	1,090	+10	+13
1972	663X-308	739	650	742	1,672	0	+157
1973	659.9X-280.8	1,197	855	962	1,251	-20	+46
1974	586.4X+420.8	970	343	792	314	-18	-8
1975	572.9X+359.2	902	879	910	1,822	+1	+107
1976	573.0X+354.5	628	514	658	597	-4	+16
		1969-76 Avg.				9	44

A number of assumptions are made in using this technique. Firstly, all fish passing the test fishery must do so only once. Secondly, there must be no intra-species size selectivity. Thirdly, capture of fish must not inhibit subsequent captures and, finally, identical migration routes must be exhibited by all stocks. These assumptions, however, are not totally valid, resulting in at least part of the variability in the estimate.

Pink salmon daily catches per hour are simply multiplied by one thousand to arrive at escapement estimates. Comparisons with actual escapements are difficult and less accurate than for sockeye, as only a small proportion of the run passes through the Babine counting fence. Therefore, errors in the test fishing estimate (Table 4) also include errors in the spawning ground estimates.

Catches of coho, chum, chinook and steelhead are too small to give reliable escapement estimates. Furthermore, the migration timing of these species (Table 8) precludes the possibility that the test fishery would sample all of the stocks of the run in question.

Factors affecting test fishing catches

Tide Level

Prior to 1966, when the two-skipper system was in use, tide level played no apparent role in the determination of the test fishing catch. After establishment of the one-skipper system, however, it became evident that low tide sets were more successful than high tide sets. A check of pre-1966 data shows that the skipper that was retained had higher catches on the low tide ever since the test fishery began. In four out of the five years, from 1971 to 1975, there was a significant difference ($P < 0.05$) between catches on the high water and low water sets (Table 5).

Table 5. Average sockeye catches on high and low sets.

Year	High tide catch/set	Low tide catch/set	Significant difference ($P < 0.05$)
1971	12.7	22.3	
1972	12.5	20.7	x
1973	17.6	31.2	x
1974	16.9	31.0	x
1975	15.2	28.6	x

A number of possible explanations exist for this difference. An increase in the errors-sectional area of the river at the test fishing site and the resultant dispersion of fish at high tide would logically result in decreased catches.

Echo sounding surveys of the abundance and distribution of migrating Skeena sockeye were conducted in 1968, 1969 and 1970 by Vroom (1971). He discovered that sockeye prefer the north shore as a migration route, except very early in the season when the south shore is

equally utilized. The low tide set, which is made closer to the north shore than the high tide set, is thus likely to catch larger numbers of fish. Also, since the low tide set covers twice the distance of high tide sets, it should encounter more fish.

Average daily catches for the past five years (1971 to 1975) indicate that catches tend to be greatest on the neap tides (Table 6). This would support the theory of Goot et al (1975) that Skeena sockeye move with the ebb and flood flows during spring tides, and only assume constant positive migration when the tidal fluctuations become smaller. Vroom's data from 1969 showed that during spring tides the main migration routes were along the banks, while migrants were more dispersed at neap tides. This is probably in response to the stronger current flows during spring tides.

Table 6. Average sockeye daily catches per hour on spring and neap tides, 1971 to 1975.

Year	Average daily catches per hour	
	Spring	Neap
1971	16.67	15.61
1972	6.86	25.09
1973	27.67	31.12
1974	20.90	27.11
1975	14.26	34.90

Climate

Although climatic factors have not been very accurately documented for the Skeena test fishing operation, it is well known that they play a significant role in determining the catchability of salmon (Milne, 1955; various fishermen, pers. comm.; Vroom et al, 1971). Surface wave action of any type has the effect of increasing the efficiency of any type of gillnet. The vertical movement imparted to a net by the surface oscillations of the water aids in camouflaging the net, as well as increasing its gilling action. Rain tends to drive fish deeper and make them less available to gillnet gear. Clear skies, with their associated westerly winds, cause fish to swim nearer the surface, as evidenced by the larger numbers of fish caught in the upper half of the set during such times (various fishermen, pers. comm.).

Net Conditions

The test fishing net is changed every 16 days. Damage to the net by seals, snags and handling may cause reduced catches near the end of the 16 day period. Conversely, new nets may inhibit approaching fish from entering the net because of the boldness of the twine color. With repeated soakings in the river, the twine takes on a muddy brown color and becomes less visible.

Seals

Since the banning of seal hunting in 1972, it appears that seal populations are on the increase. In 1976, not one seal-free set was

recorded. In previous years, seal sightings were greatest in the early and late stages of the test fishing operation, when fish populations were smallest. Catch losses to seals may affect escapement estimates significantly, particularly at the beginning of the season when catches are small.

Sampling

Species timing

The Skeena test fishery is primarily a tool in the management of the sockeye salmon. Virtually the entire run of sockeye is sampled by the test fishing gillnet. Only parts of the runs of other species are sampled, with the greatest overlap in timing with the sockeye, belonging to the chinook.

Peak sockeye catches occurred in week six (average for years 1969 to 1975), with the peak for chinook coming a week earlier. The peak week for coho, pink and steelhead was week nine, and that for chums, week 10. The peak week data for the last four species is misleading however, as the runs continue until well past the termination date of the test fishery operation (Fig. 7). The range of occurrence for steelhead is somewhat misleading as the catch in the first three to four weeks of the season is made up almost entirely of kelts (adults returning to the sea after spawning).

Age

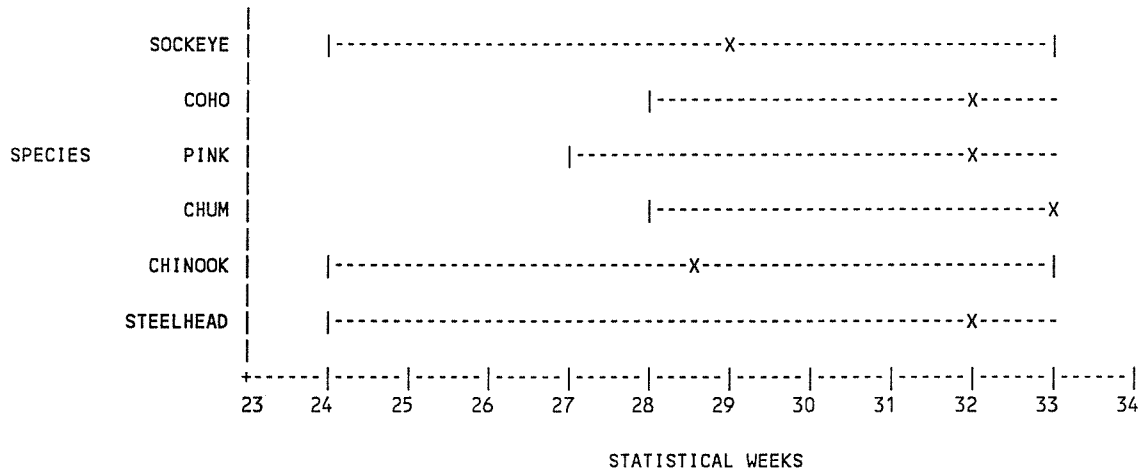
Sockeye - Skeena River sockeye return to spawn in either their third, fourth, fifth or sixth year of life. With respect to the freshwater component of their life history, two main groups are evident: those that have spent one year in freshwater and those that have spent two years. The Skeena River has five major age groups of sockeye (Larkin and McDonald, 1968).

- 1) 3sub2's (invariably males) which migrate to sea in their second year and mature in their third.
- 2) 4sub2's, which migrate to sea in their second year and mature at four years of age.
- 3) 5sub2's, which migrate to sea in their second year and mature at five years of age.
- 4) 5sub3's, which migrate to sea in their third year and mature at five years of age.
- 5) 6sub3's, which migrate to sea in their third year and mature at six years of age.

Age group 3sub2 sockeye are called jacks and are considered to be precociously mature males. Their function on the spawning grounds is uncertain. However, they are believed to have a disruptive effect on the larger spawners as they themselves make attempts to procreate. The test net has only one panel (3.5 inches) that can effectively capture jack sockeye. Consequently, sample sizes are small, and population estimates from these catches would be unreliable.

Of the larger size sockeye, age groups 4sub2 and 5sub2 make up most of the run, averaging 52 and 42 percent respectively from 1956 to 1975.

Figure 7. Average timing of salmon and steelhead trout through the Skeena Test Fishery, 1969 - 1976.



Vertical bars = limits of occurrence.

Horizontal lines = range of occurrence.

Note: Coho, Pink, Chum and Steelhead continue to migrate past test fishing site after termination of test fishing operation.

X = week of peak catches at the test fishing site.

STATISTICAL WEEK	CORRESPONDING DATES
23	= June 10 - 16
24	= June 17 - 23
25	= June 24 - 30
26	= July 01 - 07
27	= July 08 - 14
28	= July 15 - 21
29	= July 22 - 28
30	= July 29 - Aug. 04
31	= Aug. 05 - 11
32	= Aug. 12 - 18
33	= Aug. 19 - 25 (Test fishery operation is terminated after this week).
34	= Aug. 26 - Sept. 01

Most of these fish are destined for the Babine River system. The main systems supporting sub3 adult sockeye are the Morice, Nanika, Alastair and Johanson. The age characteristics of a particular system are not absolute however, and other age groups may be present in small numbers.

The test fishery age data over the years seems to indicate the presence of certain repeating migration patterns. Withler (1945) in an analysis of data from 1926 to 1941 formed the following predominant patterns:

- 1) 4sub2 males - low at the beginning of the migration, reaching a peak during the period from July 5 to July 25, and then back to former low level.
- 2) 4sub2 females - increasing throughout the season.
- 3) 5sub2 males - steady decline as the season progresses.
- 4) 5sub2 females - steady increase as the season progresses.
- 5) Steady increase of 4sub2's as the season progresses.
- 6) Steady decline of 5sub2's as the season progresses.

The present test fishing data tends to concur with Withler's (1945) observations, except for the pattern of 5sub2 female migration. In recent years, 5sub2 females have shown initial increases but have then declined until the end of the season.

Annual variations in the percentage of 4sub2's and 5sub2's can be quite acute (Table 7). For example, in 1968, 14 percent of the total run was made up of 4sub2's and 73 percent of 5sub2's. In 1975, the percentages were 76 and 23 respectively.

An examination of the age compositions of both the test fishery and the commercial catch of sockeye reveals a process of selection in the commercial fishery towards the five-year-old fish. An analysis of the data for the years 1957 to 1975 shows that the ratio of relative exploitation rates (exploitation rate of 5sub2 fish/exploitation rate of 4sub2 fish) averaged about 1.2 (Table 8). Larkin and McDonald (1968) in their simulation model of Skeena sockeye stocks found that age 4sub2 fish should be reduced to about two percent of the total run by year 50 of the simulation, using a selection factor in favour of 5sub2's of 1.5. This model also assumed, among other things, an inherited age of return as well as a cycle factor that implied large returns for large brood year escapements.

Chinook - Test fishing age data of Skeena chinook is available from 1973 to 1976 (Table 9). For the purpose of comparison, earlier data (Godfrey, 1968) is presented as well. Sampling of age 3sub2 fish is not done in a consistent manner and is therefore omitted from the table. Age 3sub1 and 4sub2 fish are the smallest fish sampled. They are almost exclusively males and must consequently mate with other age groups.

The predominance of sub1 fish (4 and 5 years old) in recent years seems to be the only repeating characteristic of the Skeena chinook. In individual years, the run may be strengthened by 3sub1 males and for 5sub2 fish of both sexes. White chinook tend to have more individuals in the older 6sub2 age class than do red chinooks.

The 1964 to 1966 age composition data is characterized by age 3sub1

Table 7: Sockeye age compositions at the Skeena test fishery, 1956-1976.

YEAR	ESCAPEMENT	NO. OF 4' ₂ 's	% 4' ₂ 's	NO. OF 5' ₂ 's	% 5' ₂ 's	NO. OF 5' ₃ 's	% 5' ₃ 's	NO. OF 6' ₃ 's	% 6' ₃ 's	NO. OF OTHERS	% OTHERS
1956	44,7324	323,416	72	101,140	23	10,736	2	11,675	3	313	<1
1957	546,924	355,500	65	168,453	31	18,267	3	3,719	<1	984	<1
1958	934,858	377,028	40	518,846	56	33,935	4	4,394	<1	654	<1
1959	866,190	219,146	25	562,677	65	72,327	8	11,694	1	433	<1
1960	320,663	205,866	64	75,099	23	16,226	5	22,735	7	673	<1
1961	1,011,261	787,368	78	165,645	16	49,451	5	8,697	<1	-	-
1962	612,812	221,715	36	363,826	59	18,201	3	8,334	1	735	<1
1963	651,966	452,594	69	148,061	23	43,356	7	7,628	1	391	<1
1964	905,780	262,495	29	590,387	65	38,858	4	8,786	2	5,254	<1
1965	683,202	411,561	60	209,401	31	31,632	5	30,129	4	547	<1
1966	453,599	229,703	51	185,976	41	25,674	6	11,975	3	272	<1
1967	667,509	418,662	63	227,888	34	10,079	2	10,880	2	-	-
1968	620,000	88,040	14	452,166	73	35,092	6	42,160	7	2,592	<1
1969	704,056	441,443	63	245,011	35	10,561	2	4,788	<1	1,971	<1
1970	726,600	460,519	63	218,779	30	24,196	3	9,155	1	13,951	2
1971	896,406	500,105	56	341,800	38	23,934	3	27,699	3	2,868	<1
1972	748,950	227,314	30	504,942	67	6,591	1	14,080	2	2,022	<1
1973	971,416	466,862	48	487,748	50	10,200	1	6,606	<1	-	-
1974	803,022	327,342	41	463,938	58	6,124	1	5,618	<1	-	-
1975	916,314	646,514	76	206,885	23	9,841	1	2,758	<1	315	<1
1976	663,848	276,553	42	368,391	55	9,785	2	9,119	1	-	-

and 4sub2 males, 5sub1 and 5sub2 females and 4sub1 fish of both sexes.

Table 8. Numbers of 4sub2 and 5sub2 sockeye in Skeena catch and escapement for the years 1957 to 1975 with approximate estimates of selective exploitation of 5sub2 fish.

Year	Catch in thousands		Escapement		Relative rates of expl.		Ratio 5:4
	4 ₂	5 ₂	4 ₂	5 ₂	4 ₂	5 ₂	
1957	191	73	356	168	0.349	0.303	0.868
1958	203	380	377	519	0.350	0.423	1.209
1959	27	128	219	563	0.110	0.185	1.682
1960	91	70	206	75	0.303	0.483	1.594
1961	701	158	787	166	0.471	0.488	1.036
1962	154	305	222	364	0.410	0.456	1.112
1963	88	36	453	148	0.163	0.196	1.202
1964	169	550	262	590	0.392	0.482	1.230
1965	128	144	412	209	0.237	0.408	1.722
1966	242	292	230	186	0.513	0.611	1.191
1967	430	555	419	228	0.506	0.709	1.401
1968	114	597	88	452	0.569	0.569	1.009
1969	269	235	441	245	0.379	0.490	1.293
1970	322	179	461	219	0.411	0.450	1.095
1971	491	335	500	342	0.495	0.495	1.000
1972	137	496	221	505	0.383	0.496	1.295
1973	692	495	467	488	0.597	0.504	0.844
1974	448	881	331	470	0.575	0.652	1.134
1975	343	133	697	207	0.330	0.391	1.185
1957-75 Avg.							1.216

Coho - The coho run of the Skeena River is made up of two major age classes: 3sub2 fish that left their freshwater rearing areas in their second year and stayed one year at sea and 4sub3 fish that have stayed at sea for one year following two full years in freshwater. Catches of coho by the test fishery are not large enough to give any kind of reliable estimate of the age composition of the run.

Chum - Most chum are four or five year old fish that have left freshwater immediately upon emergence from the gravel.

Sex Ratio

Sockeye - An analysis of the available data from the test fishery, Babine Fence and commercial catch shows a consistent relationship between the three with regards to sex ratio. The percentage of females in the commercial catch is invariably higher than that at the Babine Fence which, in turn, is always higher than the test fishing percentages (Table 10).

Assuming that sampling at the Babine Fence is unbiased, it would follow that the test fishing gillnet selected for males while the commercial nets selected for females. A possible explanation for this selectivity could be that males exhibiting secondary sexual characteristics are susceptible to capture by more of the multi-sized panels than the more streamlined females. For the commercial gillnets,

Table 9: Skeena test fishery, Chinook age composition (1964-1966 averages, 1973-1976)

PERCENTAGE AGE COMPOSITION													
YEAR	COLOR	SEX	N	3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	6 ₁	6 ₂	OTHERS	R ¹	N AS % OF TOTAL
1964-66	R	F	192	1.0	36.5	3.1	8.3	17.2	0	2.6	0	31.3	32.3
1964-66	R	M	325	13.8	10.2	21.8	2.8	5.5	0	0.3	14.5	31.1	54.7
1964-66	W	F	28	0	17.9	0	14.3	25.0	0	3.6	0	39.3	4.7
1964-66	W	M	49	12.2	10.2	14.3	8.2	4.1	0	2.0	10.2	40.8	8.2
1973	R	F	53	1.9	35.8	5.7	30.2	5.7	0	1.9	0	22.6	34.6
1973	R	M	78	20.5	24.4	14.1	9.0	5.1	0	2.6	0	23.1	51.0
1973	W	F	15	0	13.3	0	26.7	26.7	0	6.7	0	26.7	9.8
1973	W	M	7	14.3	14.3	0	14.3	14.3	0	14.3	0	28.6	4.6
1974	R	F	80	1.3	33.8	0	10.0	16.3	0	15.0	0	23.8	40.0
1974	R	M	83	6.0	19.3	10.8	6.0	20.5	1.2	7.2	0	28.9	41.5
1974	W	F	18	0	16.7	0	11.1	22.2	0	27.8	0	22.2	9.0
1974	W	M	19	0	26.3	0	10.5	26.3	0	5.3	0	31.6	9.5
1975	R	F	101	1.0	28.9	1.0	37.6	5.9	1.0	4.0	0	20.8	53.2
1975	R	M	60	0	26.7	5.0	28.3	8.3	1.0	0	0	30.0	31.6
1975	W	F	12	0	8.3	0	50.0	0	0	8.3	0	33.3	6.3
1975	W	M	17	0	5.9	0	47.1	0	0	17.6	0	29.4	8.9
1976	R	F	74	1.4	39.2	0	33.8	4.1	0	5.4	0	20.3	42.6
1976	R	M	71	15.5	28.2	2.8	19.7	7.0	0	1.4	0	25.4	40.8
1976	W	F	14	0	7.1	0	35.7	0	7.1	28.6	0	21.4	8.0
1976	W	M	15	13.3	26.7	0	33.3	0	0	0	0	26.7	8.6
1973-76	R	F	308	1.3	33.8	1.3	28.2	8.1	0.3	6.8	0	21.8	43.0
1973-76	R	M	292	11.0	24.3	8.6	12.3	10.6	0.7	3.1	0	26.7	40.7
1973-76	W	F	59	0	11.9	0	22.0	13.6	1.7	18.6	0	25.4	8.2
1973-76	W	M	58	5.2	19.0	0	27.6	10.3	0	10.3	0	22.4	8.1

¹R = regenerate.

it appears that the excess of females may be attributed to the high proportion of the larger 5sub2 fish in the catch in comparison with the test fishery. The sex ratio of the 5sub2 fish seems to be more heavily skewed towards the females than the 4sub2 fish (Table 10).

Table 10. Sex composition of sockeye salmon at the Skeena test fishery, the Babine Fence and in the Area 4 commercial gillnet catch.

Year	Test Fishery		Babine Fence		Commercial Catch	
	% M	% F	% M	% F	% M	% F
1967	56.7	43.3	52.1	47.9	47.8	52.2
1968	41.2	52.8	38.3	61.7	34.6	65.4
1969	51.7	48.3	46.0	54.0	44.3	55.7
1970	47.1	52.9	46.1	53.9	40.9	59.1
1971	51.0	49.0	50.8	49.2	41.1	58.9
1972	40.8	59.2	37.9	62.1		
1973	50.8	49.2	43.1	56.9		
1974	51.6	48.4	32.7	67.3		
1975	48.8	51.2	41.7	58.3		
1976	46.4	53.6	45.8	54.2		

Changes in the overall sex ratio of sockeye sampled at the test fishery site throughout the season is very marked. In the data for 1973 to 1976 (Fig. 8a), an increase in the percentage of females is evident as the season progresses. Close inspection also reveals two peaks in the percentage of females. The first one, with a female percentage of about 45 to 50 percent, occurs at about July 3. The second peak is at about August 6 and measures about 55 percent females. Babine Fence arrivals of female sockeye are also bimodal, but the timing of passage at this point is more compressed (Fig. 8b) than that at the test fishing site.

Length

Sockeye - The average length by sex of the major age classes of Skeena sockeye (Table 11) reveals an interesting characteristic. Of age 4 fish, females were larger than males, in all years from 1966 to 1971 and 1973 to 1976, except for 1974. Age 5sub2 males were larger than 5sub2 females for all years sampled. A weekly breakdown of lengths (Fig. 9) by sex and age shows a tendency for age 4sub2 fish of both sexes to increase in size as the season progresses. Age 4sub2 males start out smaller than the females, but by week five to seven, they make up the difference and become larger. Age 5sub2 fish also tend to get larger as the season progresses but at a lesser rate than the 4sub2's (the rate is equal for both sexes, with the males always being larger).

Sampling of the commercial catch for the years 1912 to 1972 (Bilton et al, 1965 to 1972) indicates a reversal in the relationship between 4sub2 males and females when compared to the test fishery, males being consistently larger than females. Fish of all age groups in the commercial catch were larger than their counterparts caught in the test fishery. Gear selectivity in the commercial gillnet fleet is quite evident and has been noted by Todd (1969) as well, in his study on the Skeena River. However, this selectivity seems to have had no effect

Fig. 8a Skeena Test Fishery.

Percent Female Sockeye in Catch (1973-76).

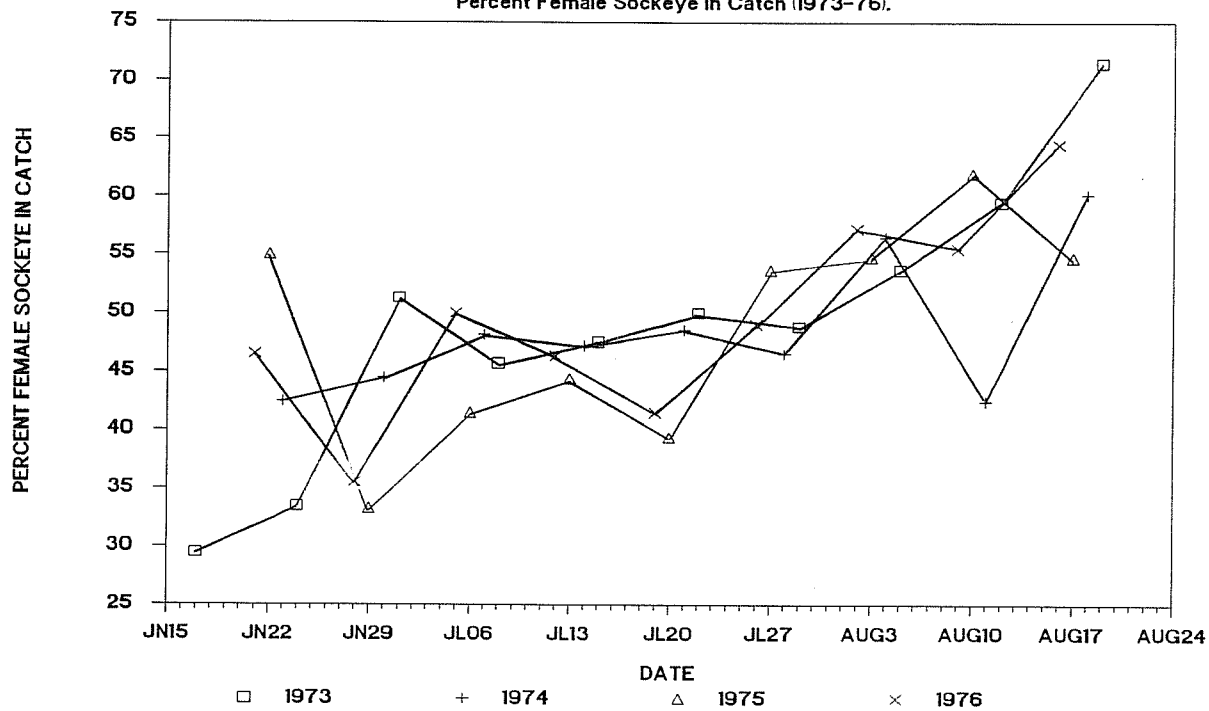


Fig. 8b Babine Fence Enumeration Project.

Percent Female of Sockeye Run Past Fence (1973-76).

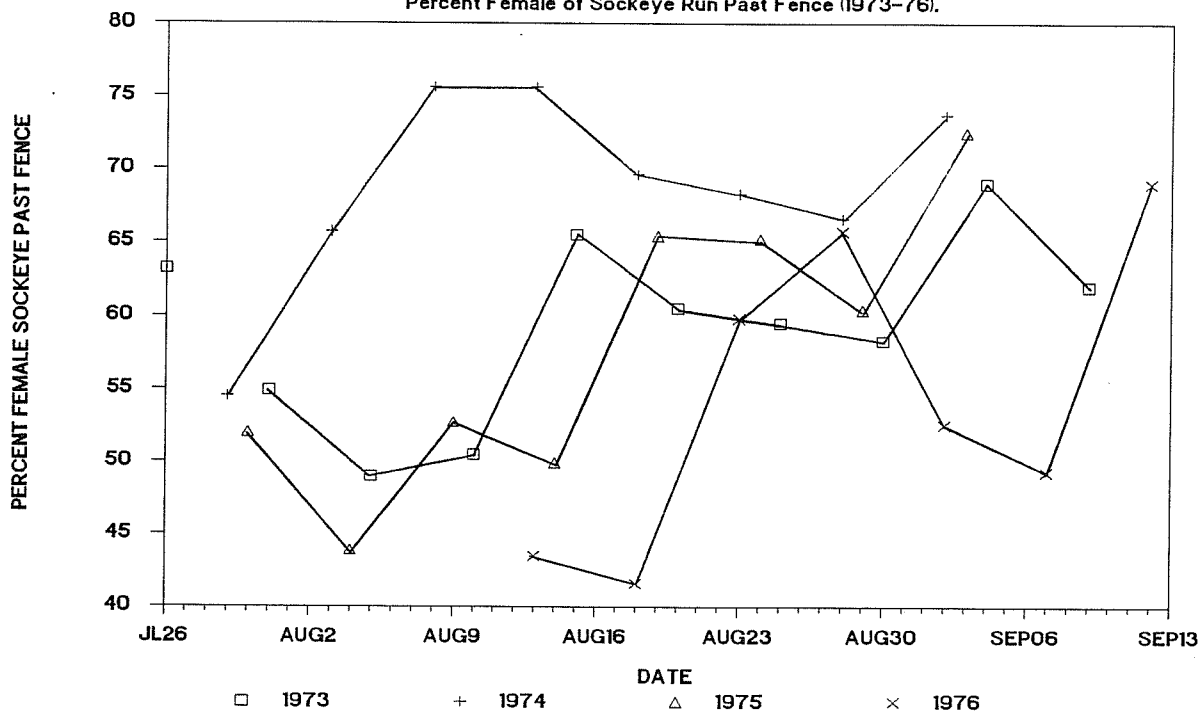
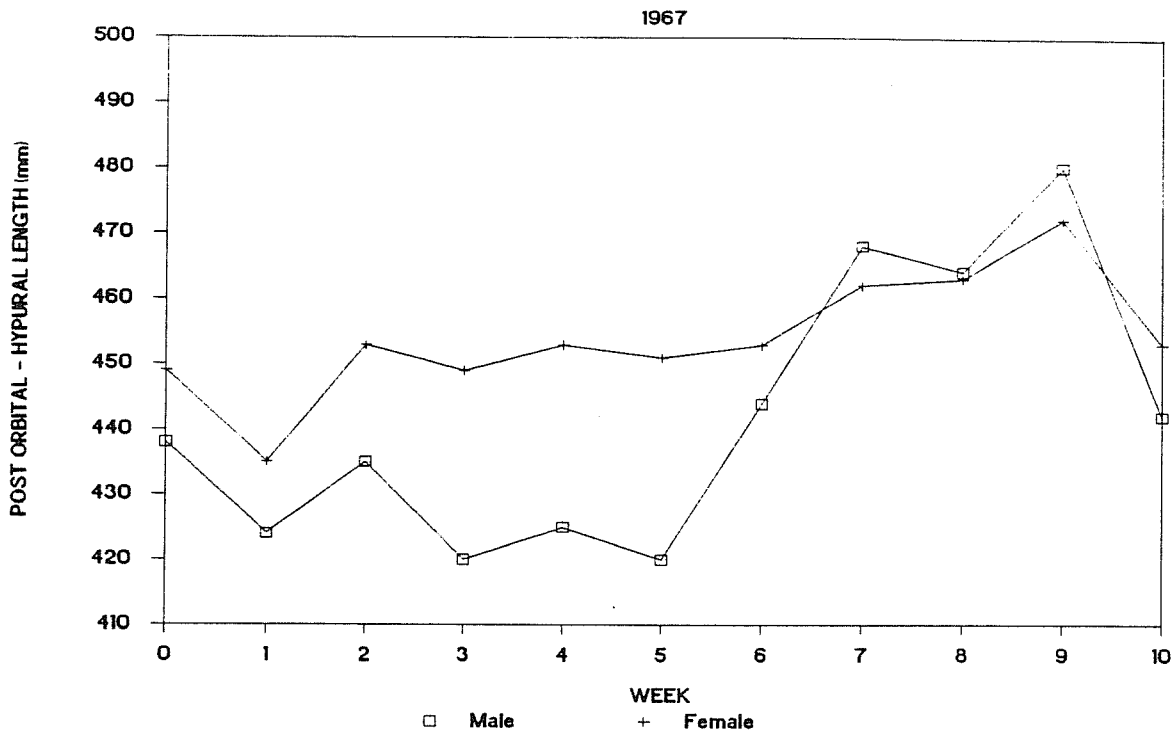


Table 11: Average post orbital - hypural lengths of male(M) and female(F) sockeye salmon in the Skeena test fishery and the Area 4 commercial gillnet catch.

Year	Skeena Test Fishing Catch		Area 4 Commercial Gillnet Catch	
	4 ₂ M	4 ₂ F	4 ₂ M	4 ₂ F
1966	448.3	461.0	473.5	464.8
1967	435.4	454.7	464.5	467.1
1968	459.1	462.8	477.5	476.3
1969	448.7	459.2	480.2	475.1
1970	461.1	463.5	478.9	473.8
1971	453.5	459.7	468.1	470.2
1972			476.6	477.1
1973	457.2	472.2		
1974	472.6	472.0		
1975	457.4	463.9		
1976	455.5	468.6		

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

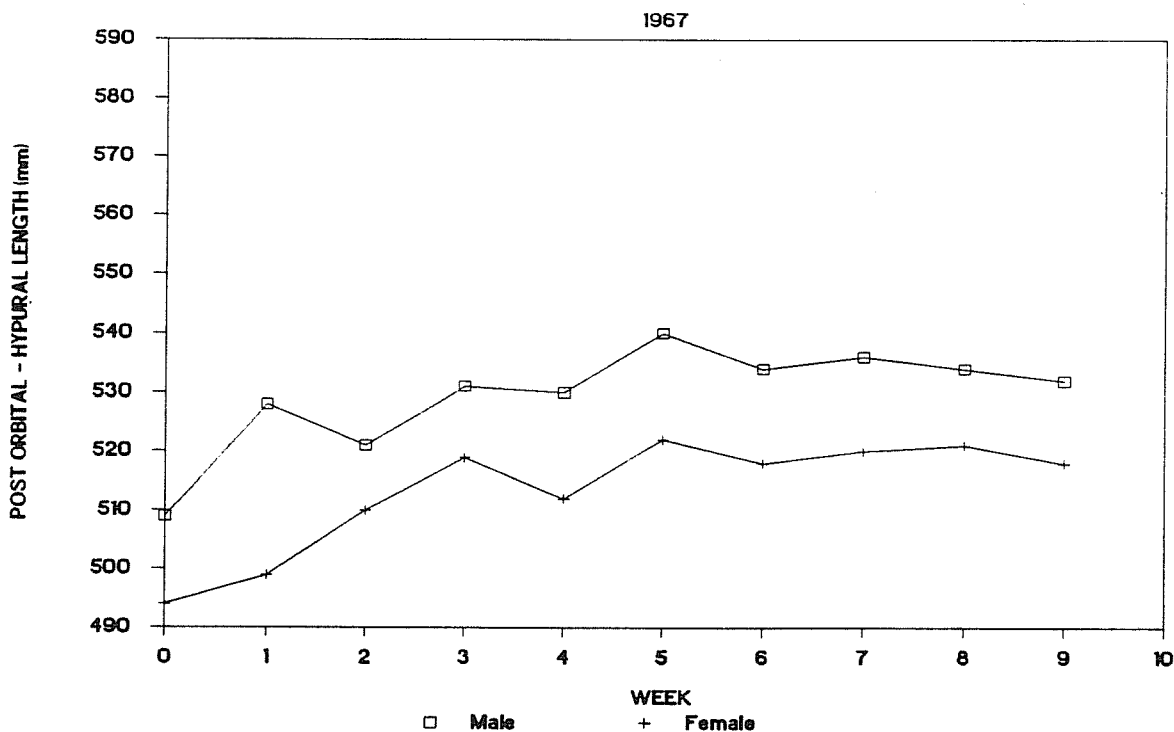
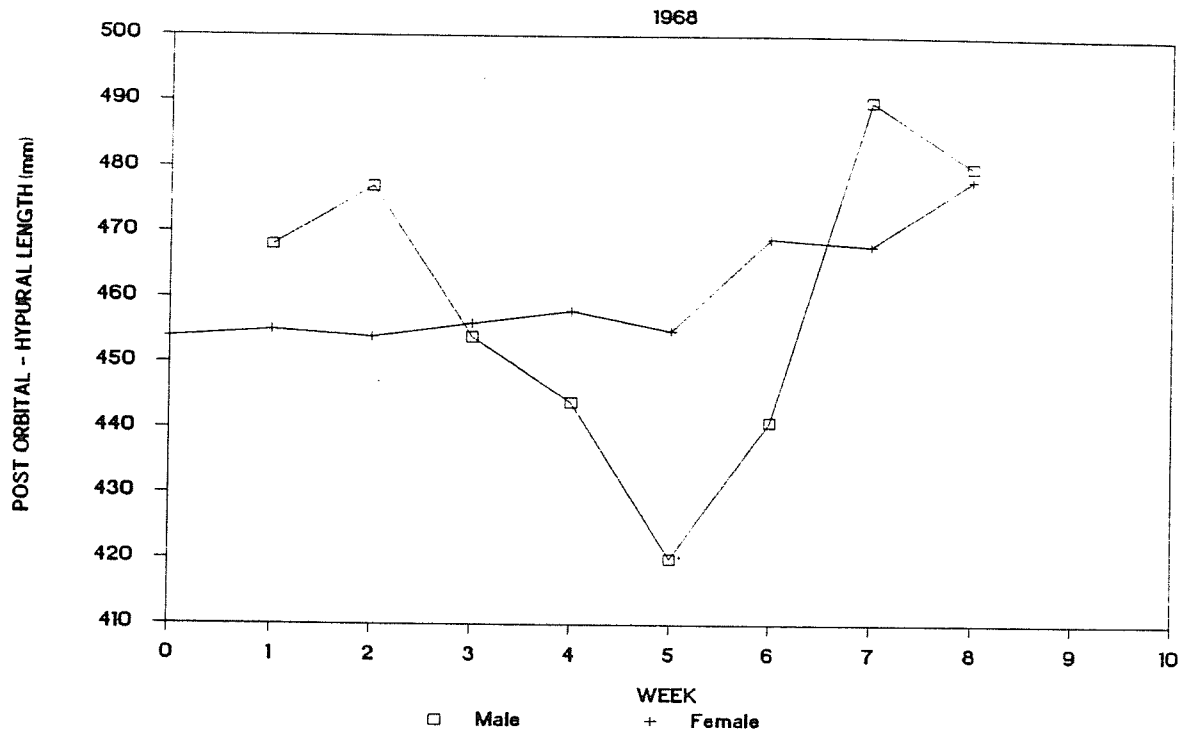


Figure 9. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
 Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

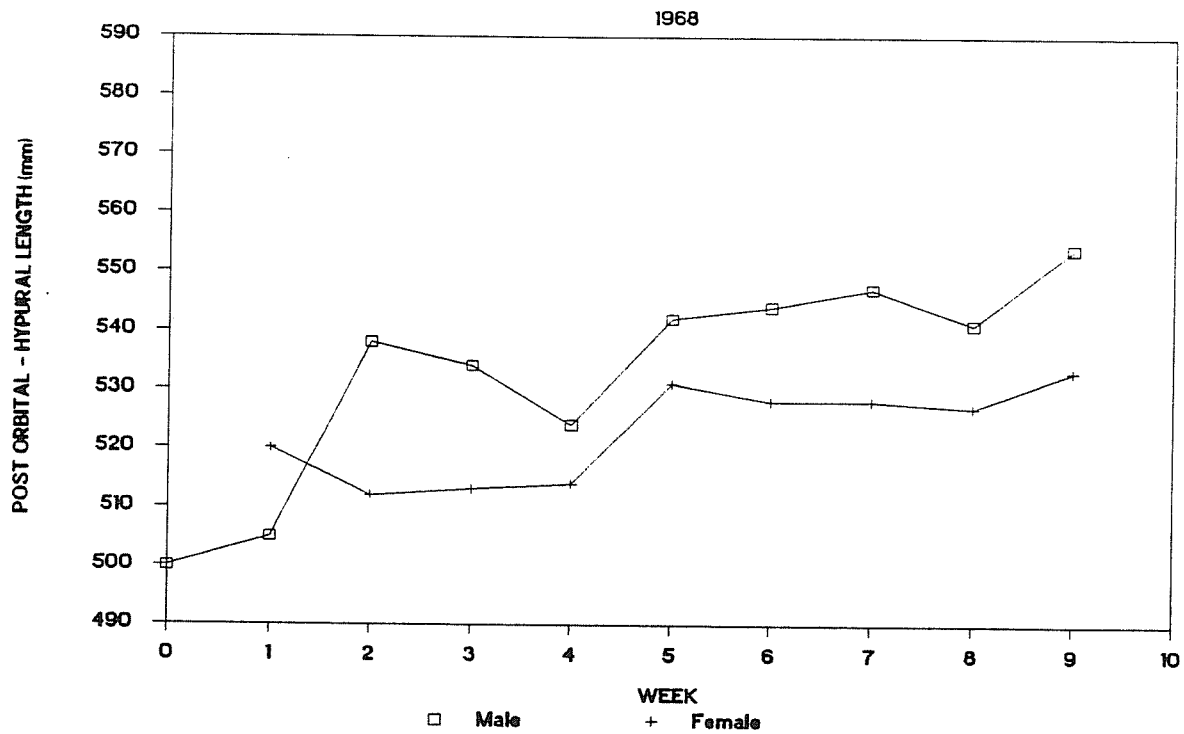
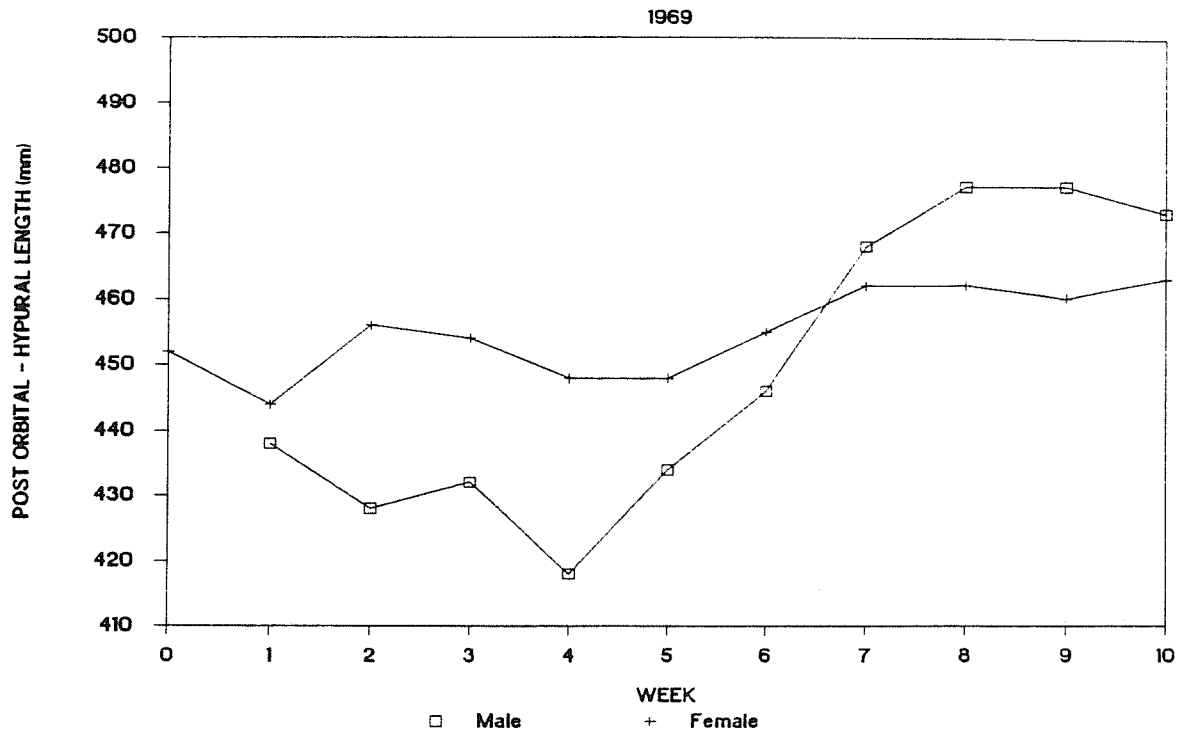


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

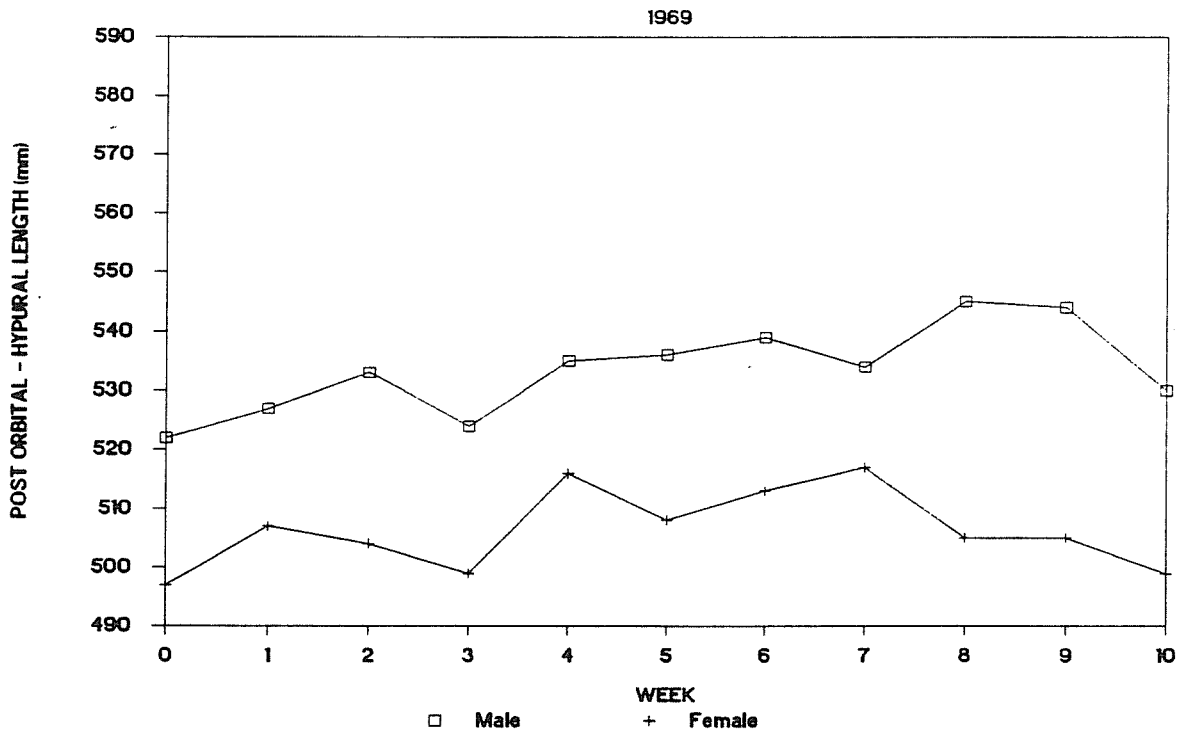
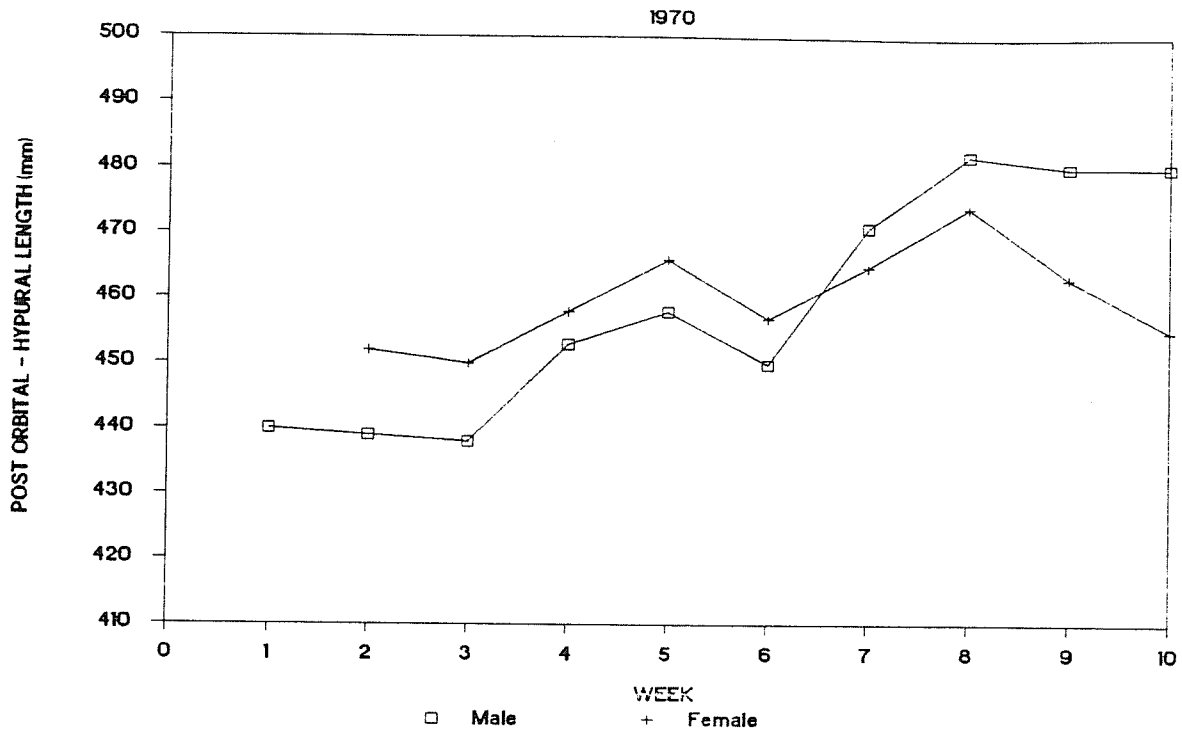


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

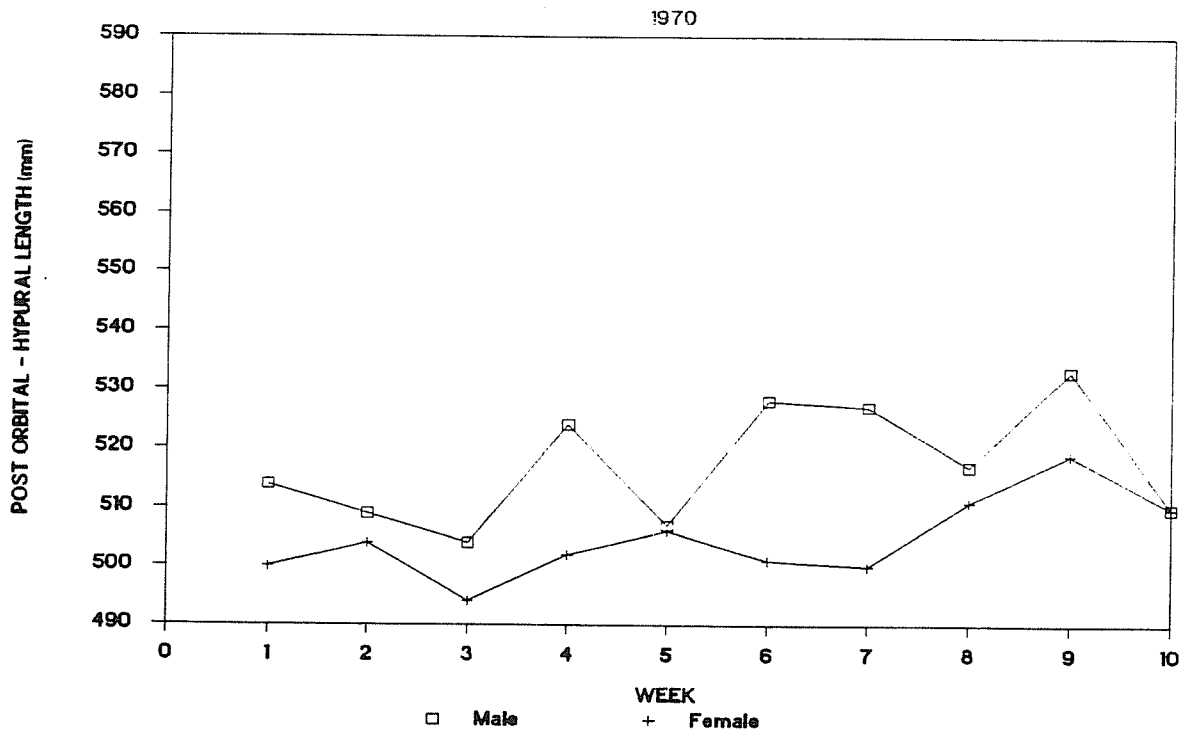
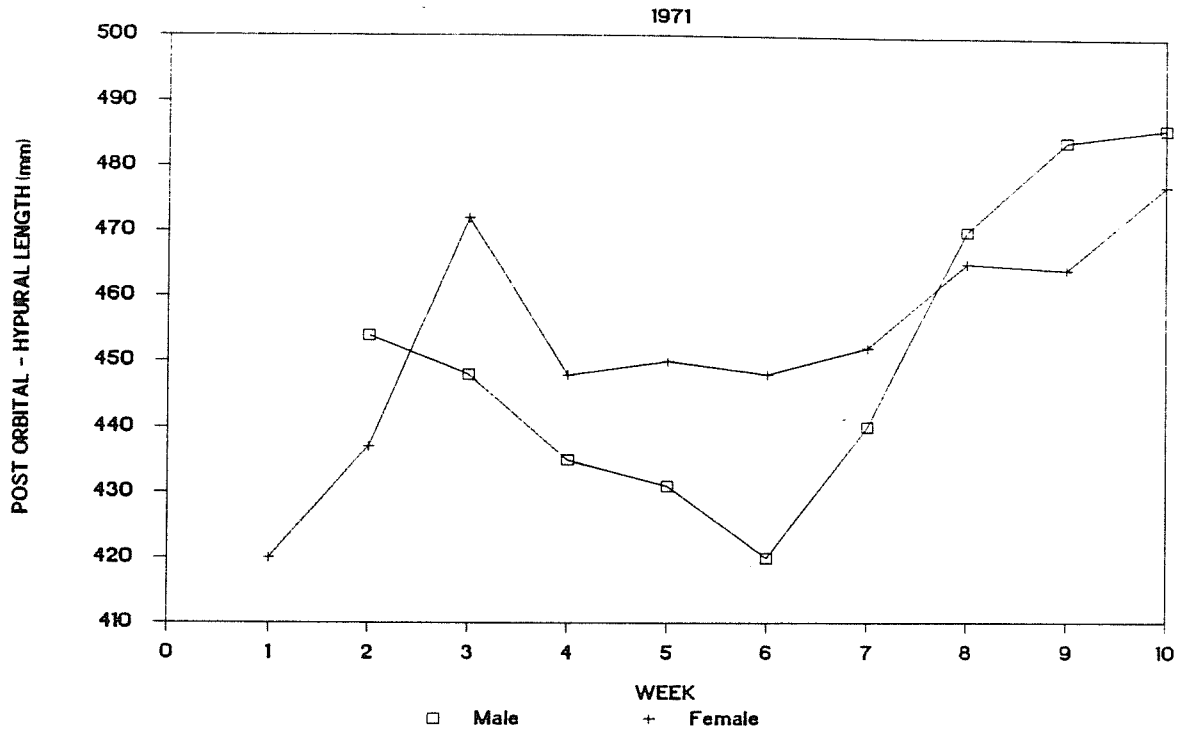


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

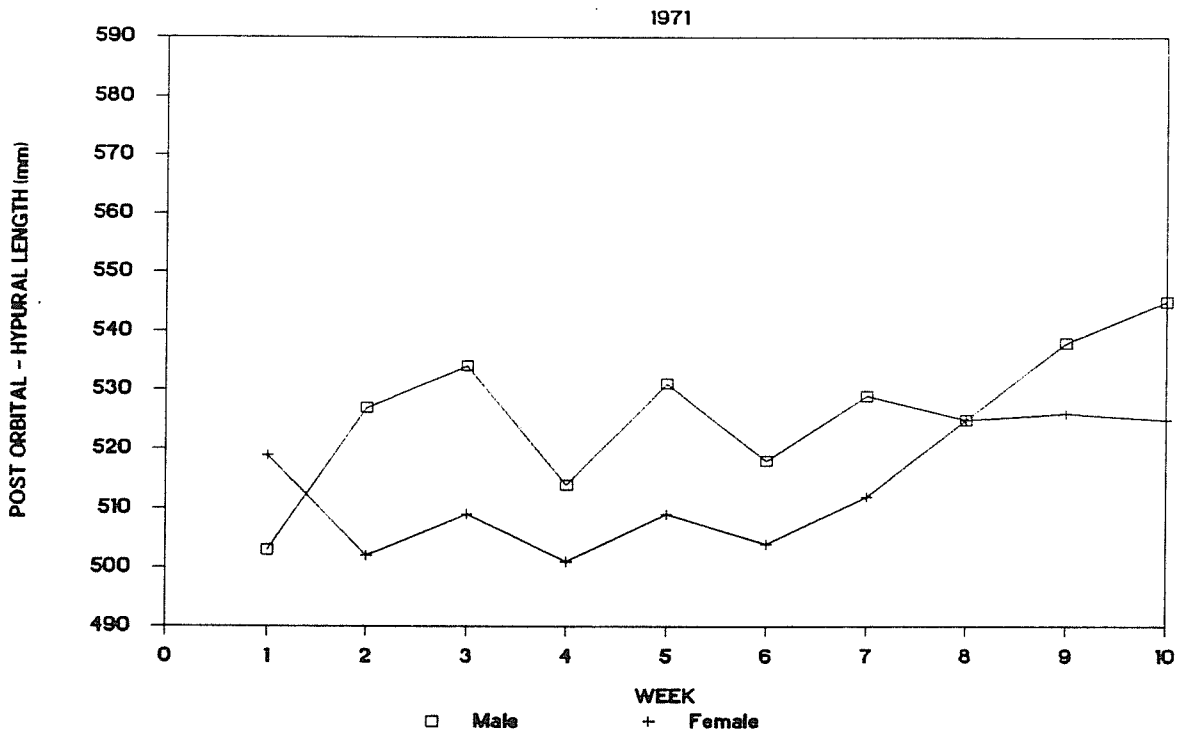
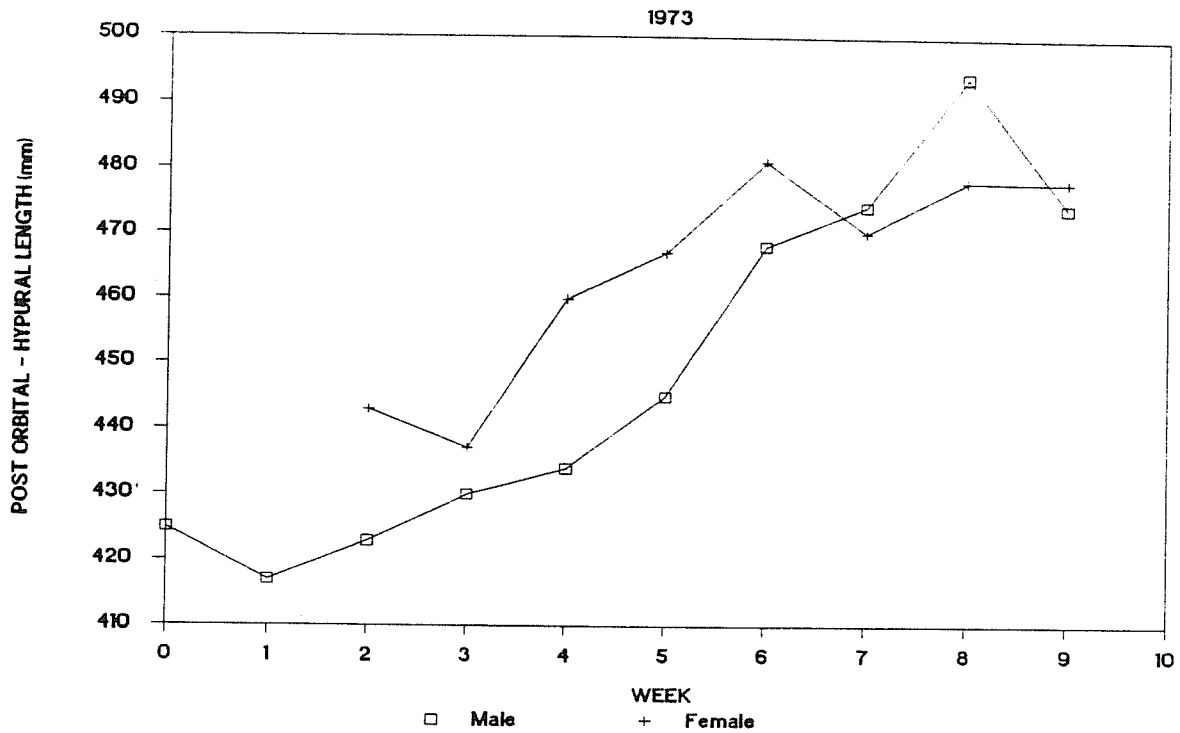


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

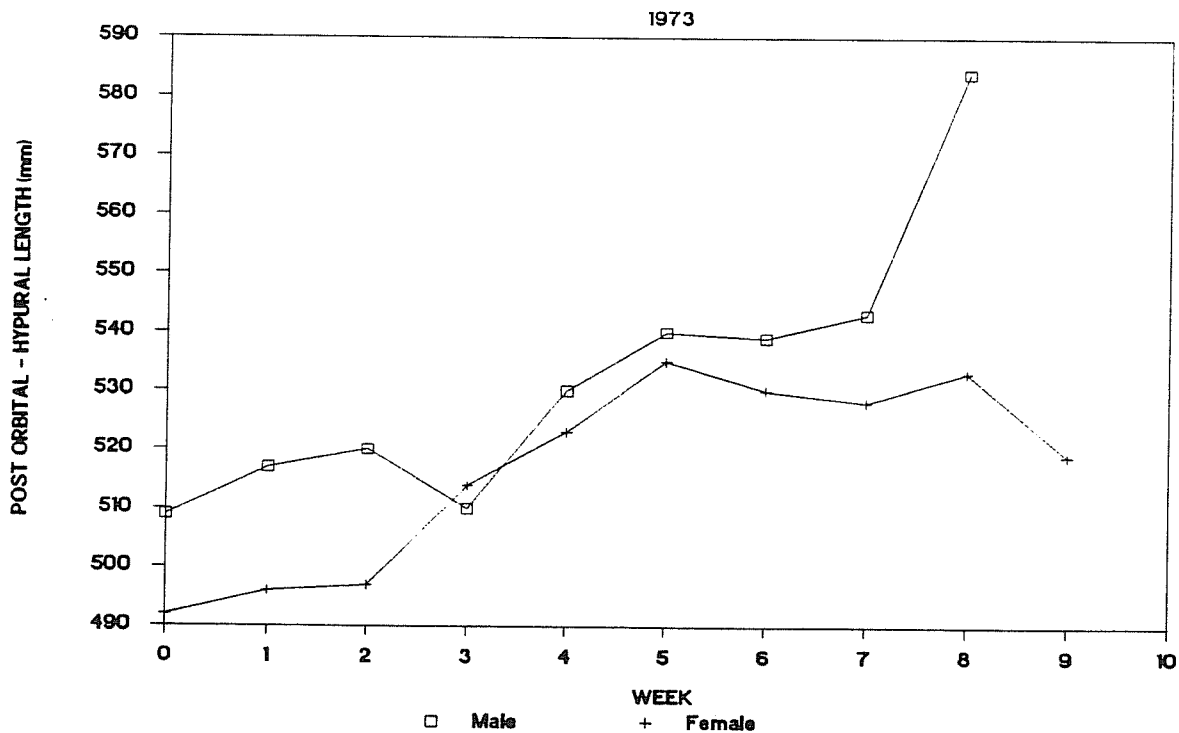
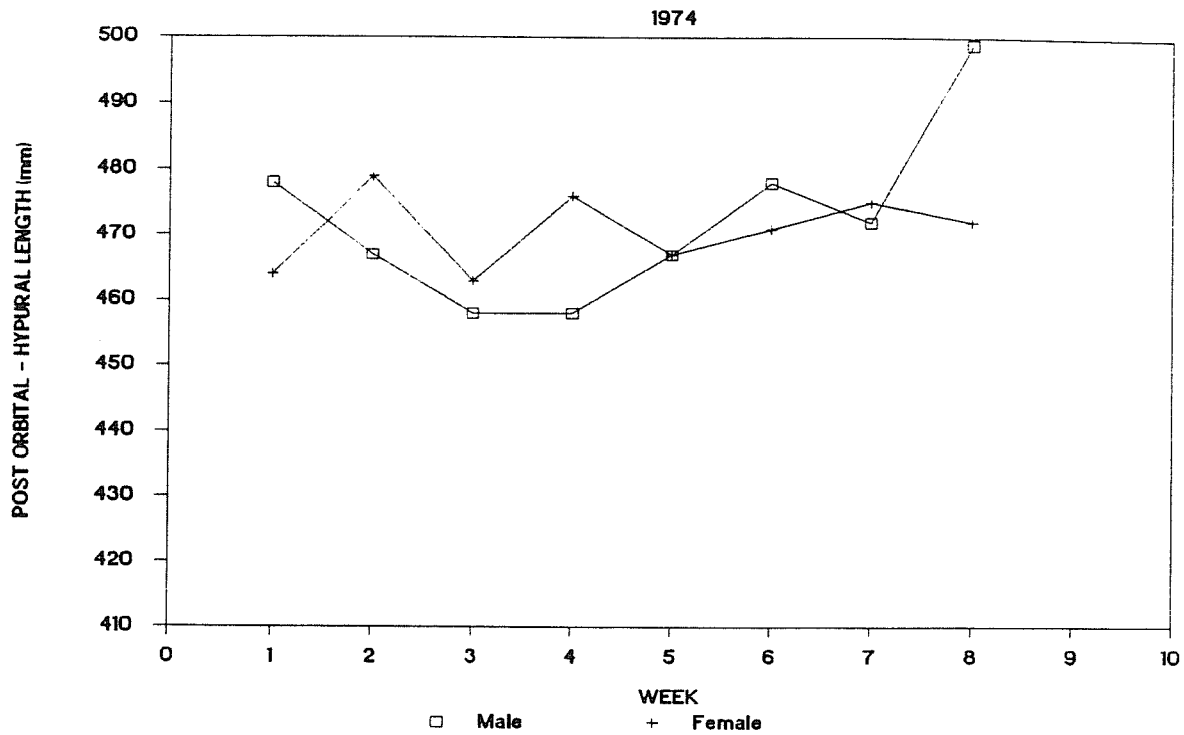


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

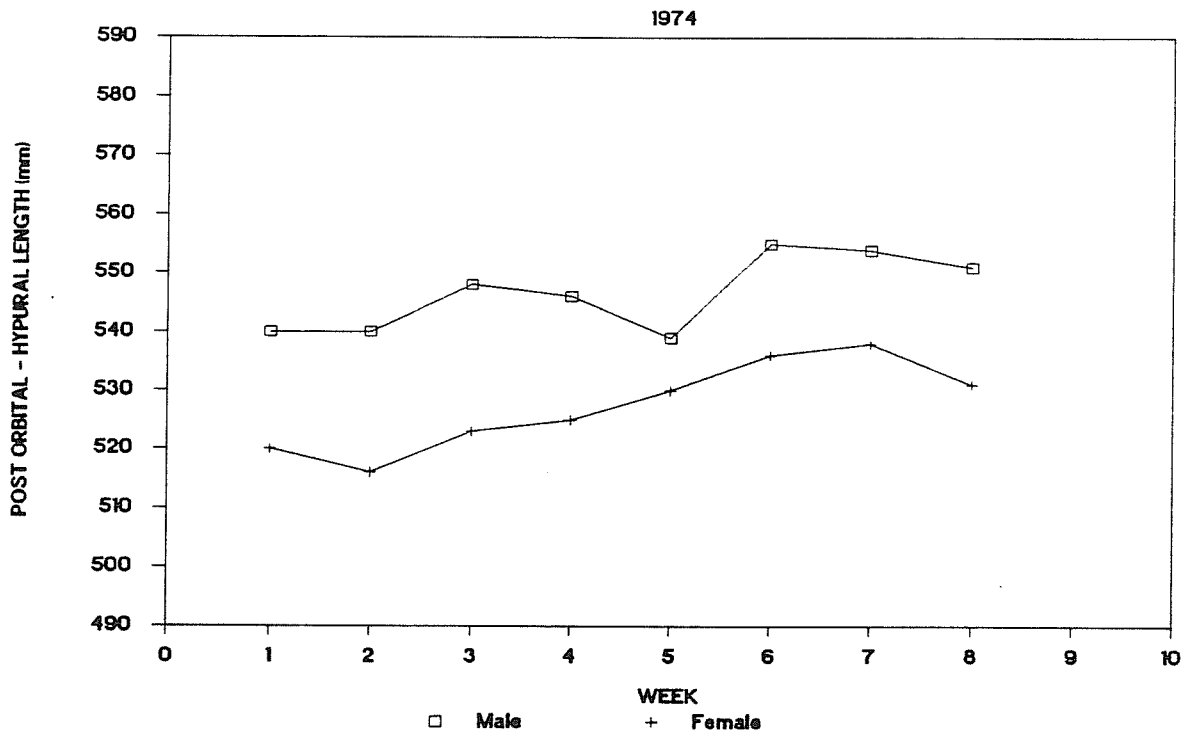
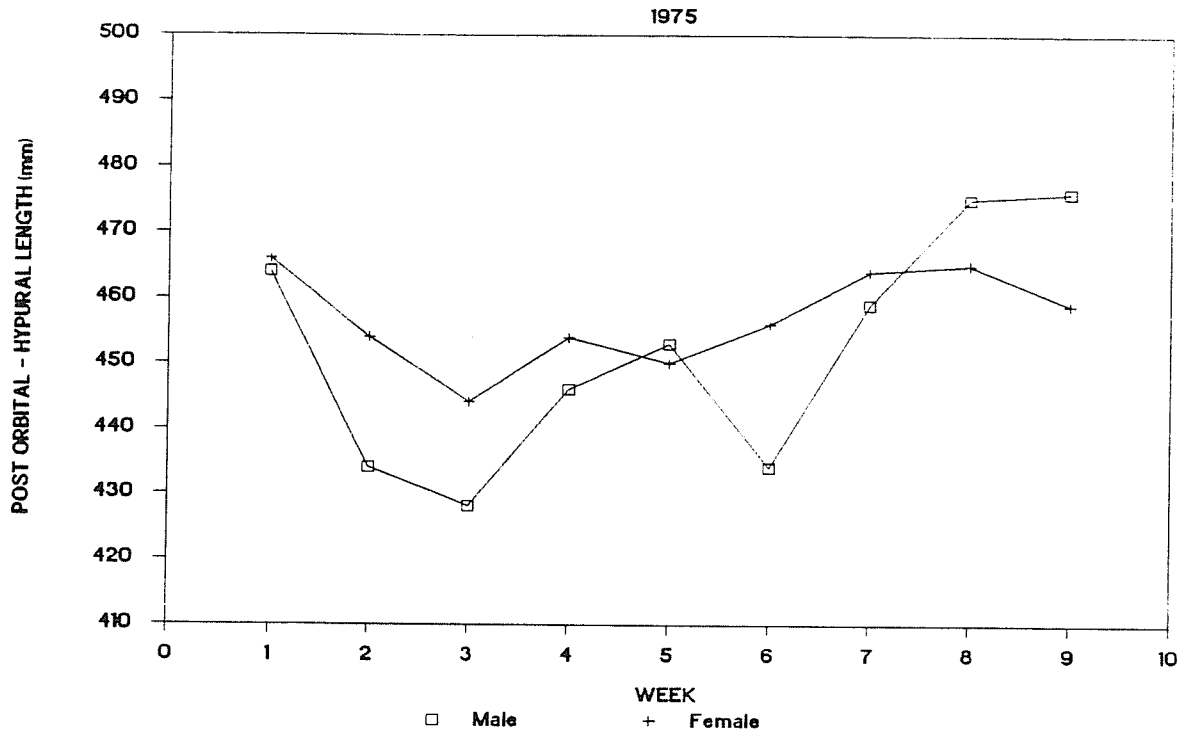


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

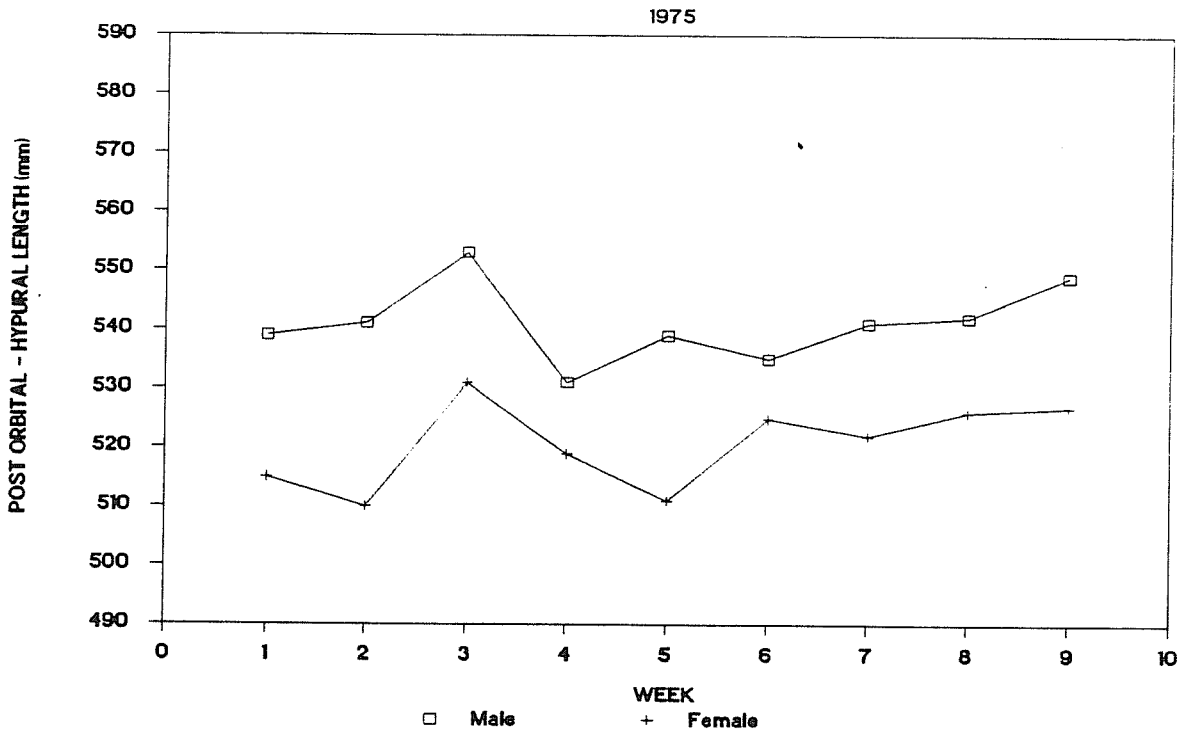
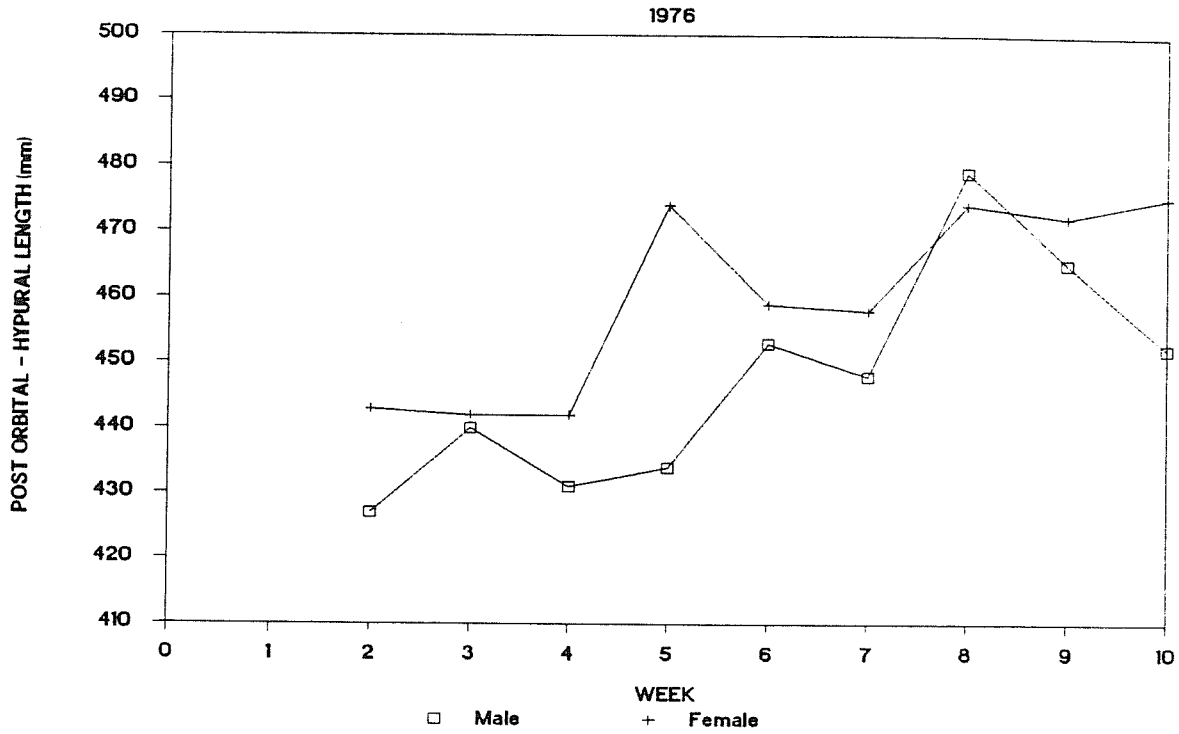


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

Average weekly post orbital - hypural length of age 4sub2 sockeye.



Average weekly post orbital - hypural length of age 5sub2 sockeye.

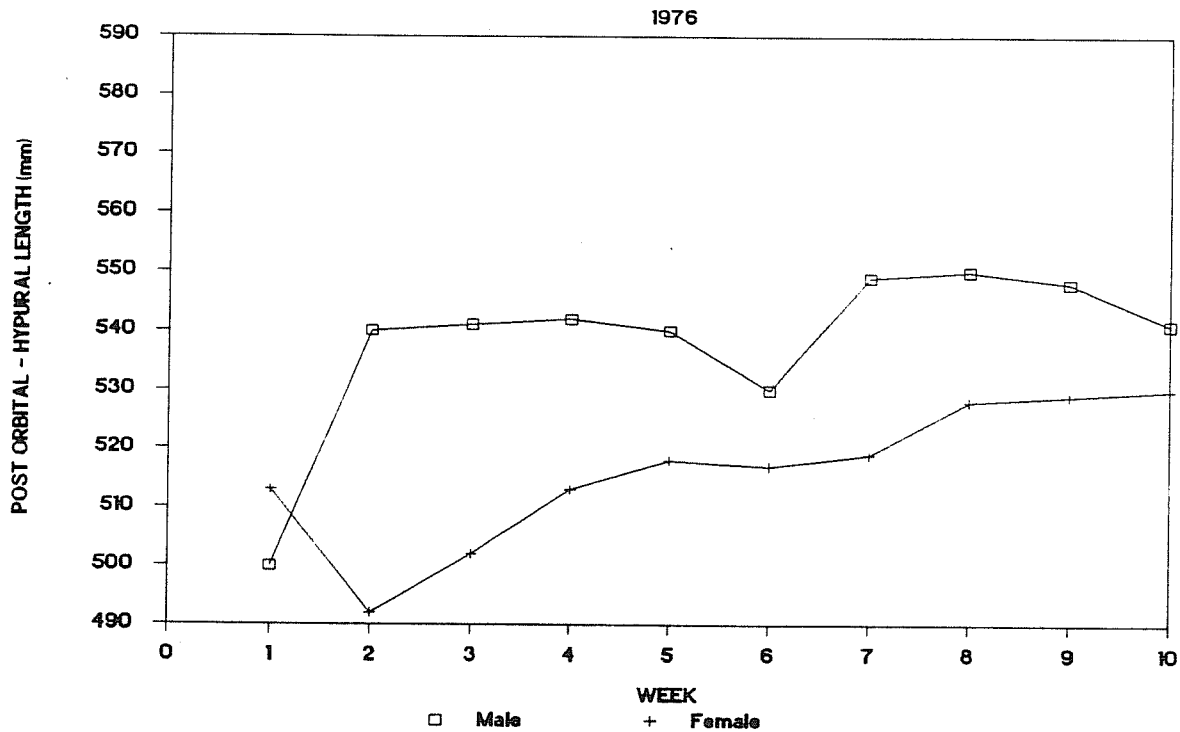


Figure 9 cont. Average weekly sockeye post orbital - hypural length by sex and age.

Note: Week 3 contains July 1st.
Week 7 contains August 1st.

upon the present size of returning adults, as examination of the past 50 years' data will attest to.

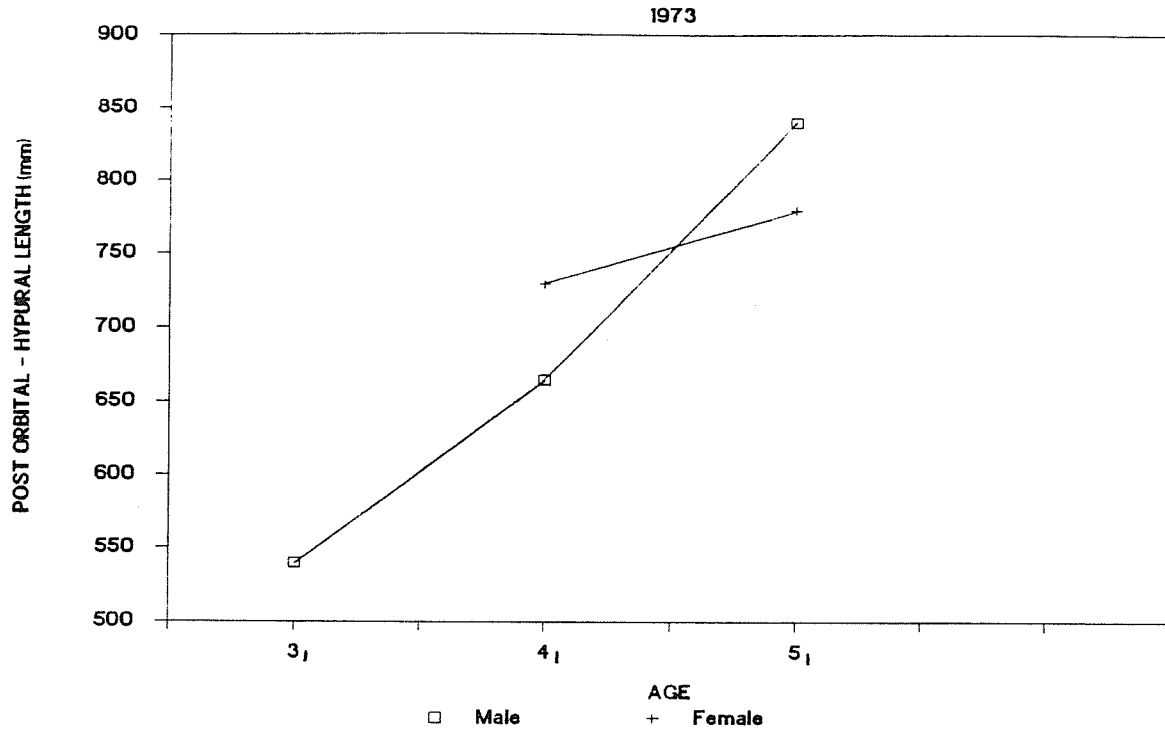
Chinook - Length data from the Skeena test fishing catch of chinook salmon seems to indicate a differential growth rate for the two sexes. Females grow faster initially, but from their second year at sea, the rate of growth of the males becomes accelerated until the fourth, when the males are actually larger than the females (Fig. 10). Consequently, all 6sub2 and 5sub1 males are larger than the females of the corresponding age, while males with three or four years of ocean growth are smaller.

Post-orbital hypural length and fecundity were found to be positively correlated for red-fleshed chinook for the years 1973 to 1975. An analysis of variance showed that the correlation was significant at the 95 percent level. White-fleshed chinooks only showed a significant positive correlation for 1973. Similar data from the 1964 to 1966 test fishery also indicated significant positive correlations for red-fleshed chinook.

Fecundity

Fecundity samples have been taken annually on the test fishery since 1973. Average fecundities and post-orbital hypural length regression equations are listed in Table 12 for all species, except sockeye. Sockeye fecundity samples are taken each year at both the Pinkut and Fulton spawning channel sites, making sampling at the test fishing site unnecessary. Yearly variations in the fecundity counts are small, reflecting small changes in the average size of the fish rather than the real changes in fecundity.

Post orbital - hypural length of chinook by age and sex.



Post orbital - hypural length of chinook by age and sex.

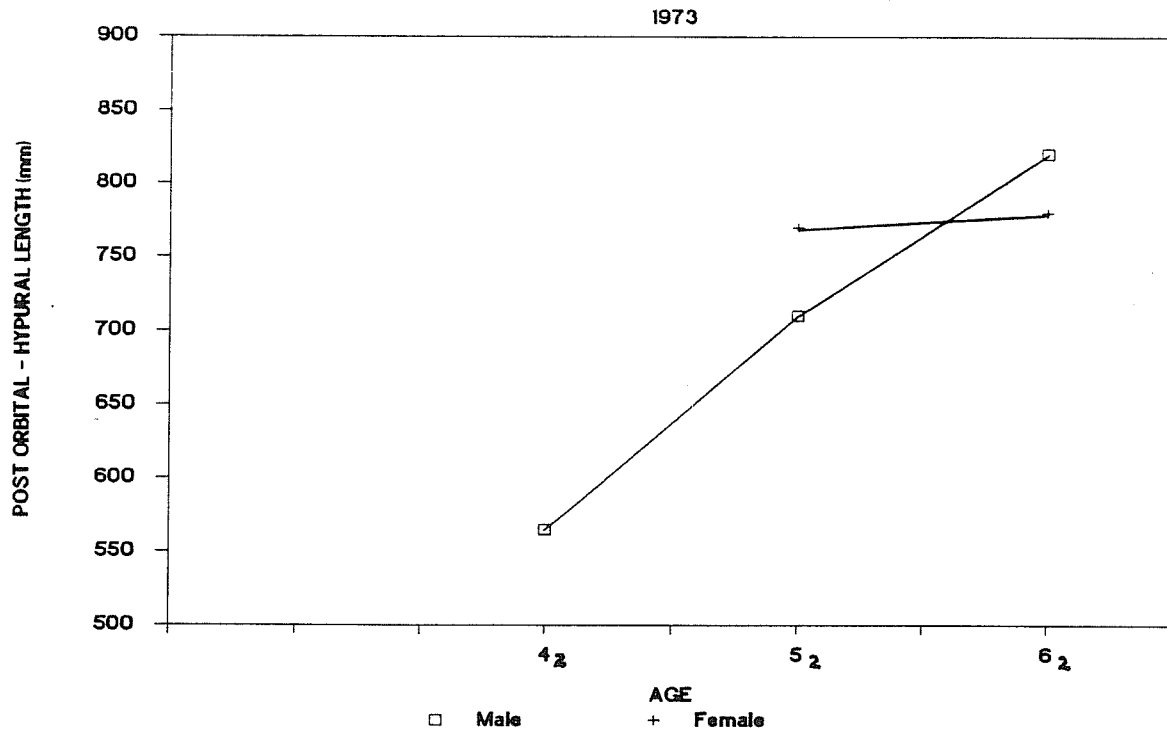
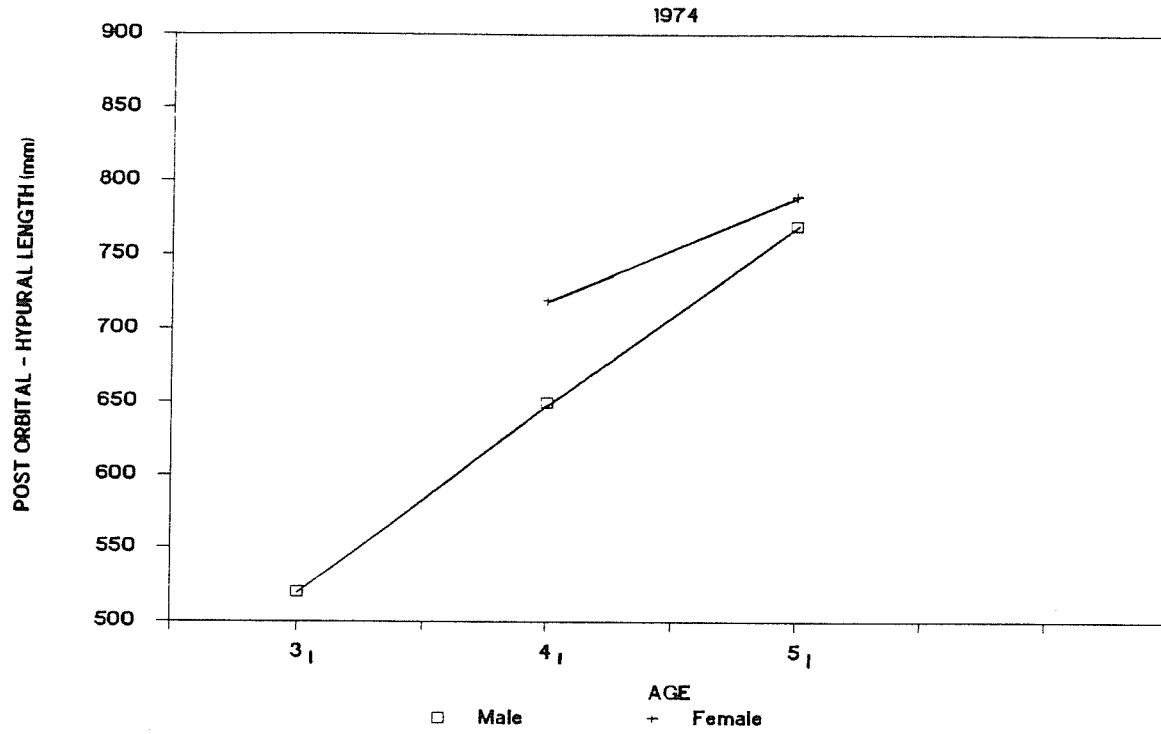


Figure 10. Post orbital - hypural length of chinook by age and sex (1973-1976).

Post orbital - hypural length of chinook by age and sex.



Post orbital - hypural length of chinook by age and sex.

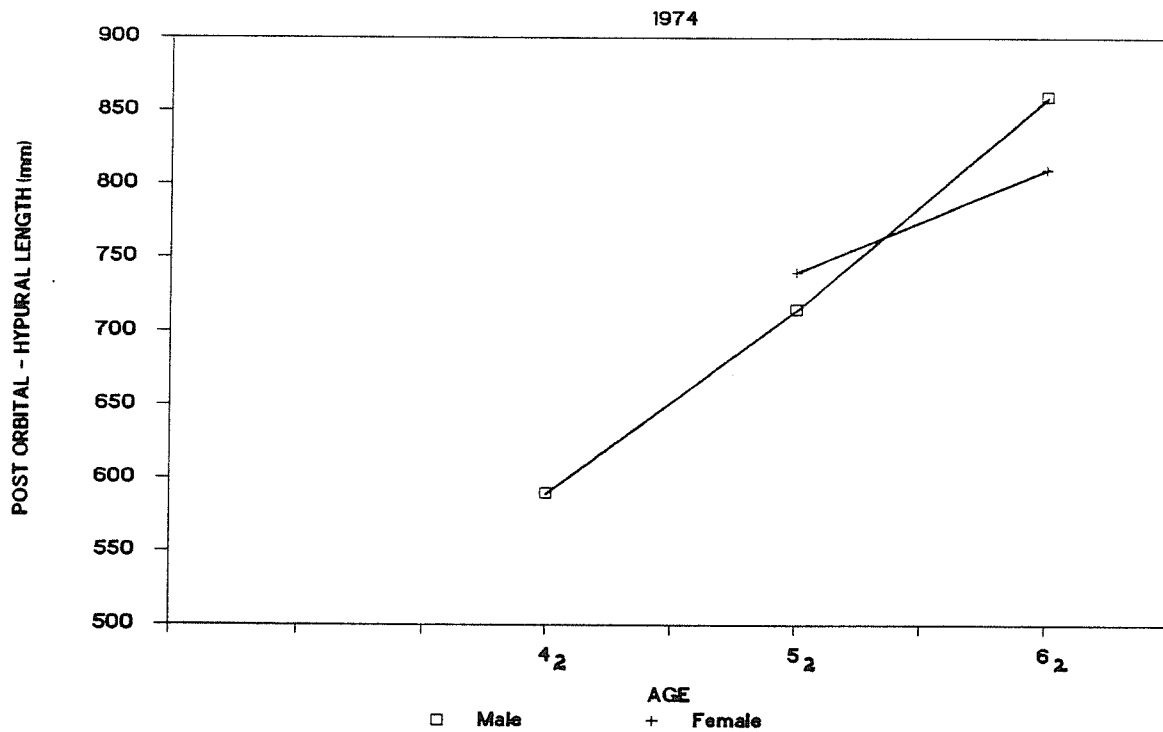
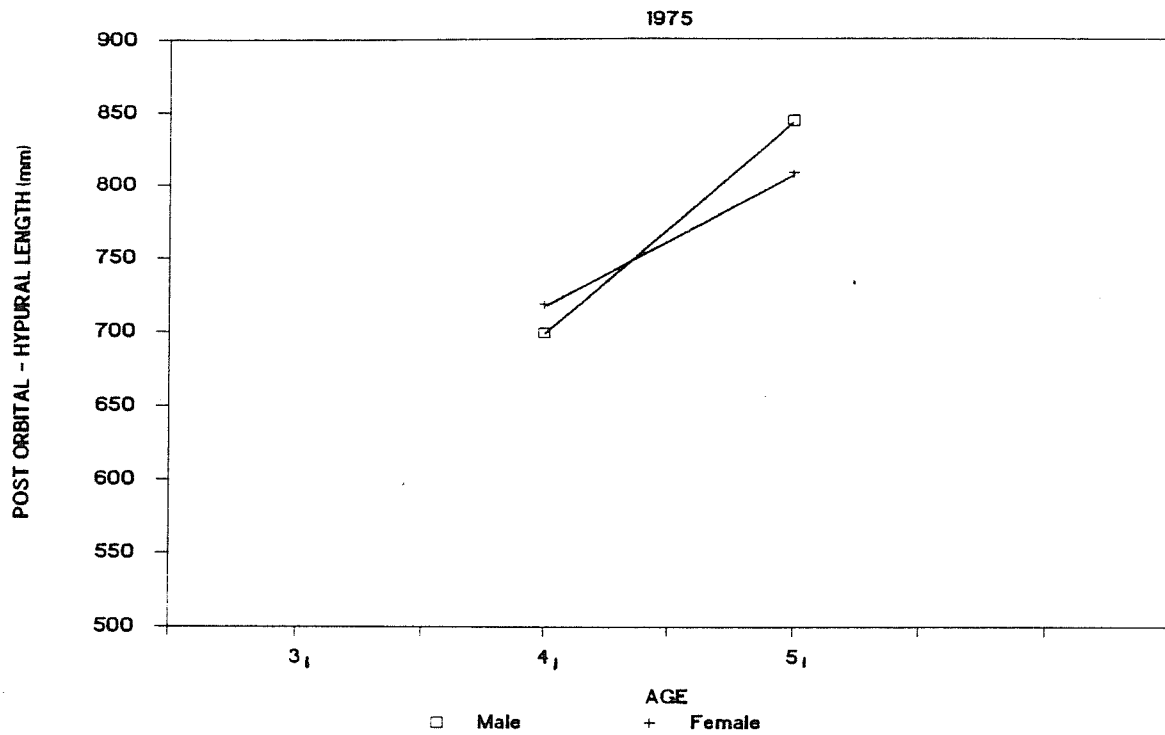


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).

Post orbital - hypural length of chinook by age and sex.



Post orbital - hypural length of chinook by age and sex.

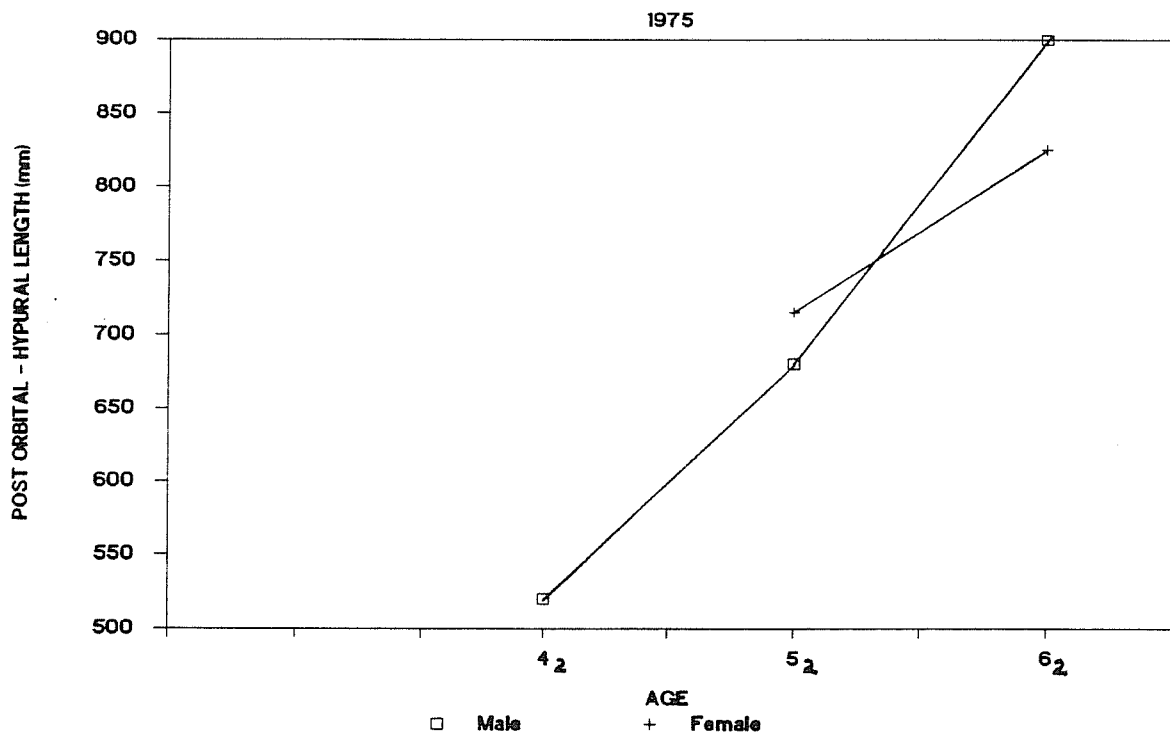
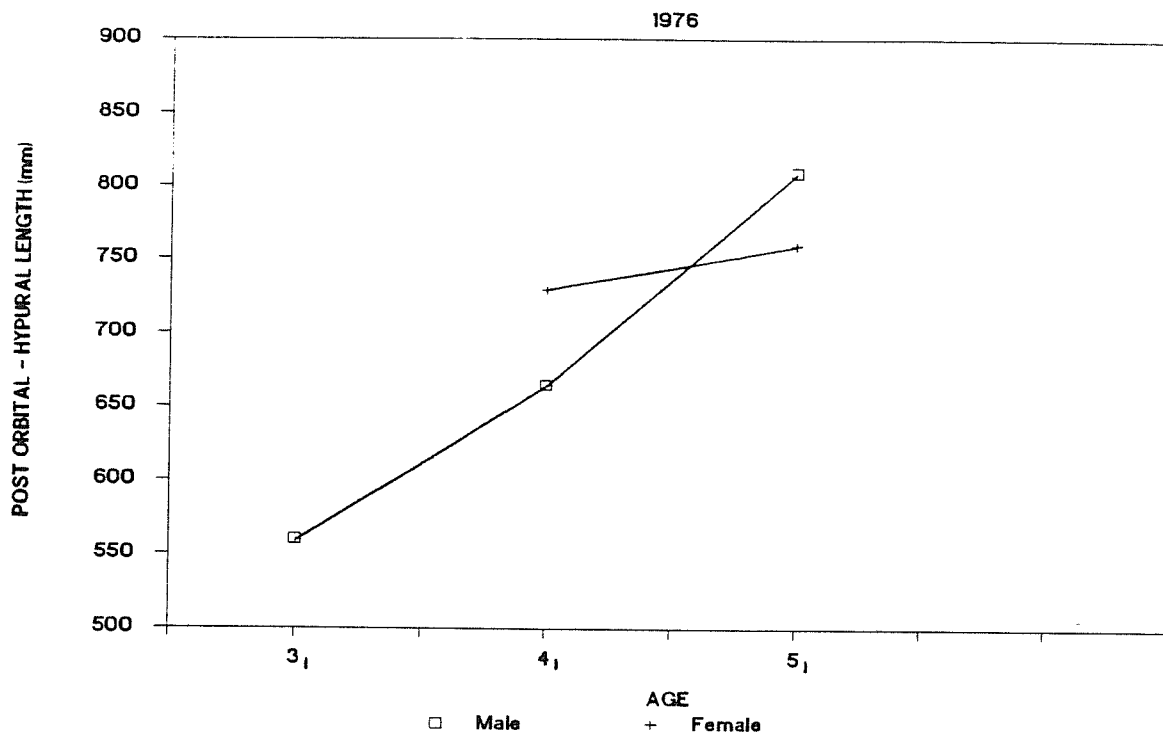


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).

Post orbital - hypural length of chinook by age and sex.



Post orbital - hypural length of chinook by age and sex.

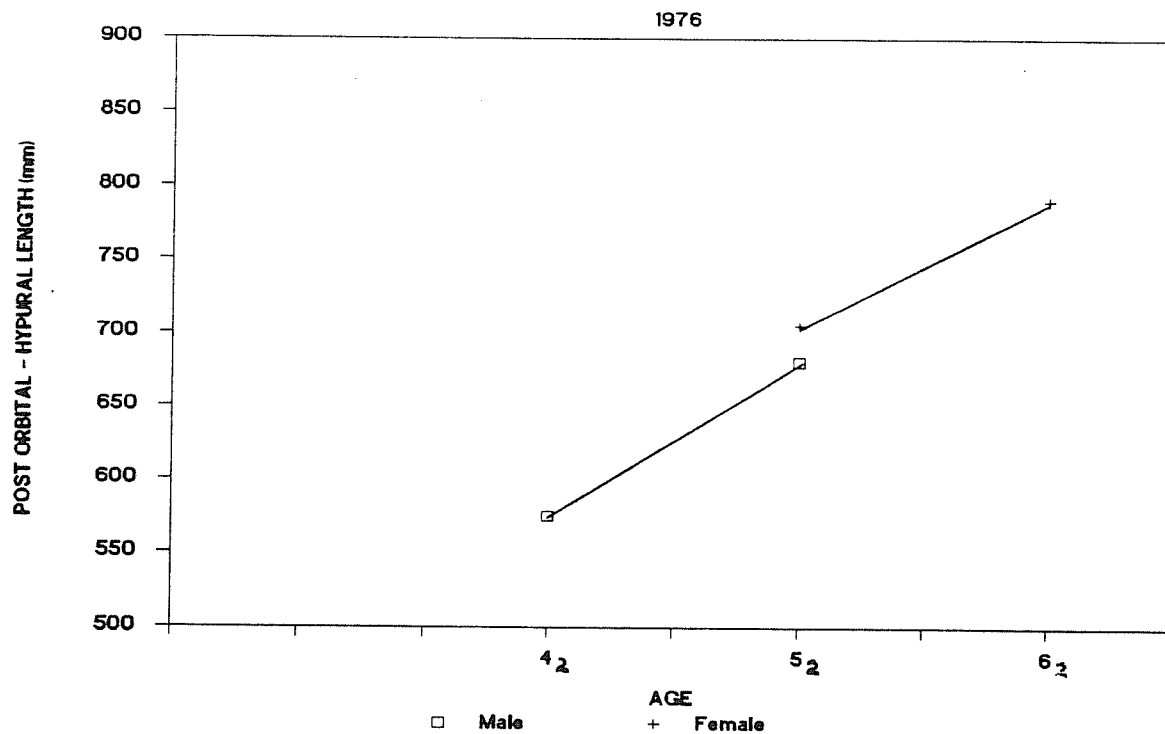


Figure 10 cont. Post orbital - hypural length of chinook by age and sex (1973-1976).

Table 12. Regression¹ of Log Egg Count on Log Orbit-Hypural Length (mm). 1964-66, 1973-75.

YEAR	SPECIES	N	r	a	b	SE _b	\bar{L}	\bar{F}
1964	Chinook red	72	0.5865	-1.7877	1.9375	0.3197	772	6419
1965	Chinook red	9	0.8442	-4.4030	2.8918	0.6820	761	6097
1966	Chinook red	74	0.7149	-2.1996	2.0859	0.2404	769	6608
1964-66	Chinook red	155	0.6563	-2.0865	2.0436	0.1899	770	6490
1964	Chinook White	8	0.8370	-1.0894	1.7285	1.3477	842	9267
1965	Chinook White	2						8217
1966	Chinook White	10	0.7084	0.3905	1.2218	1.2568	838	9162
1964-66	Chinook White	20	0.7467	-0.3504	1.4730	0.9037	843	9109
1973	Chinook red	49	0.4442	0.4170	1.1872* ²	0.3493	744	6704
1974	Chinook red	61	0.3969	0.6323	1.1063*	0.3331	743	6434
1975	Chinook red	95	0.7114	-1.0453	1.6908*	0.1732	766	6774
1973-75	Chinook red	205	0.5468	0.6643	1.3904*	0.1490	754	6656
1973	Chinook White	16	0.5973	1.6473	0.7838*	0.2813	787	8262
1974	Chinook White	12	0.0696	3.2268	0.2372	1.0751	811	8259
1975	Chinook White	10	0.3745	1.3074	0.8927	0.7814	810	8016
1973-75	Chinook White	38	0.3627	1.9221	0.6753*	0.2934	801	8162
1973	Coho	37	0.2685	0.8163	0.9984	0.6054	537	3483
1974	Coho	23	0.3775	0.6655	1.0538	0.5640	539	3498
1975	Coho	28	0.5426	-2.7780	2.3142*	0.7026	524	3281
1973-75	Coho	88	0.3877	-0.2527	1.3887*	0.3560	533	3421
1973	Chum	29	-0.1508	4.8819	-0.4647	0.5864	632	3805
1974	Chum	30	0.6763	-0.8303	1.5609*	0.3213	634	3499
1975	Chum	8	0.6679	0.7015	1.0143	0.4614	591	3255
1973-75	Chum	67	0.3560	1.1199	0.8706*	0.2835	628	3597
1973	Pink	11	0.1849	2.4623	0.2913	0.5162	421	1686
1974	Pink	44	0.3913	0.9688	0.8651*	0.3140	414	1709
1975	Pink	28	0.0558	2.6720	0.1968	0.6901	421	1544
1973-75	Pink	83	0.2333	1.6890	0.5831*	0.2700	417	1648

¹Log Fecundity = a + b Log Length.

²Significant (P<0.05) ANOVAR.

APPENDIX 2. Documentation of Department of Fisheries and Oceans
Invitation to Tender and contract arrangement for Skeena River gillnet
test fishery.

INVITATION TO TENDER

SEALED TENDERS, addressed to the A/Head Contracts Section, Material Management Division, Department of Fisheries and Oceans, 8th Floor Registry Office, 1090 West Pender Street, Vancouver, BC V6E 2P1 and marked:

TENDER FOR:

SKEENA TEST PROGRAM VC87-02

will be received up to 2:00 pm local time, May 4, 1987 for the following services:

One gillnet vessel for testfishing on the Skeena River at Tye. Testfishing to commence on or about the 8th of June 1987 and terminate no later than August 31, 1987; approximately 84 days.

Skipper will also provide 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 through the Fisheries Office in Prince Rupert or through the Registry office at 1090 West Pender Street, Vancouver. For further information and/or to obtain a copy of the tender form, please call Dave Southgate in Prince Rupert at 624-0468.

A. R. Charette
A/Head Contracts Section
Material Management Division
Pacific Region
Fisheries and Oceans

ARC/ws

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 4 (Skeena River Management units 4-12, 4-15).
3. Fisherman will occasionally be requested to assist DFO staff in any additional sampling that may be required.
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) No off sales of fish at the test site will be permitted.
 - c) In the case of private sales, the fisherman is required to supply DFO with receipts.
5.
 - a) Fisherman must be prepared to work at any hour of the day or night. A minimum of two (2) and usually three (3) one hour sets are required during each 24 hour period.
 - b) Extra sets may be required at the discrtection of DFO personnel.
6. All nets and lines will be supplied by DFO. (Fisherman may have to repair test nets periodically.
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 petersondisc tagging.
 - c) Must be able to keep neat, accurate records.

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 catch. A program outline will be provided for the test fisherman and he/she will be required to follow the guide closely.
5. Test fisherman will not be eligible to enter the commercial fishery while on charter to DFO.
6. Test fisherman must have valid 1987 "A" license.
7. In the event of a shortfall, sockeye prices will be based on the 1987 average landed value as determined by DFO through consultation with industry. Other species will be converted to sockeye equivalent. (Prices for other species will also be based on the 1987 average landed value.)
8. Cost of relaying information daily to the DFO offices (telephone calls) are to be borne by test fisherman.
9. Services will be for a minimum of twenty (20) days and a maximum of one hundred (100) days.
10. At the conclusion of the charter, a written performance appraisal will be completed.

Department of Fisheries
 Fisheries Management
 1090 West Pender Street
 Vancouver, B.C.
 V6E 2P1

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 4 _____.
- b) Number of years fished in Skeena River (management unit 4-12, 4-15)
 _____.
- 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) _____.

- 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 (use Deckhand Requirement section as guide) _____
_____.
- 23) Bid on rate per day to be expressed in pounds of sockeye
_____.
- 24) Signature(s) of registered Owner(s) _____.
- Date _____.

APPENDIX 3. Biological sampling instructions for the Skeena River gillnet test fishery.

The primary purpose of the Skeena River gillnet test fishing operation located at Tye is to obtain an escapement estimate of returning salmon and steelhead that have passed through the gauntlet of commercial fisheries. This sampling also provides invaluable information on species composition and morphology of returning fish.

All five species of Pacific salmon and steelhead trout are sampled at the test fishing site. The sampling procedure, sampling characteristics and data requirements specific for each species is provided:

a) Sampling data is recorded initially in waterproof field books and later transcribed in sample books. Information for each species is kept in separate books. The samples are to be in consecutive number. The date and set number are to be recorded with the first sample taken from each set.

b) Hypural length - The length in millimeters from the posterior orbit of the eye to the hypural plate. Hypural lengths will be recorded for all species.

c) Fork length - The length in millimeters from the tip of the snout to the fork of the tail. Fork lengths are required for all species.

d) Sex - The sex of all fish can be determined by examination through a slit cut along the mid-line of the abdomen. This will be recorded as F or for female and M or for male.

e) Scale samples - Scale samples should be removed from each fish with forceps. These are to be placed in gummed scale books. The scale samples should be taken from the preferred area as illustrated in Figures 1 and 2. In the event the preferred scale is missing or regenerated, another scale from the preferred area may be taken in its place. Wherever possible, the scales should be taken from the left side of the fish. For sockeye and chum salmon two scales are sampled while for chinook, coho and steelhead five scales are removed.

f) Flesh colour - The flesh colour (red, pink or white) should be noted for all chinook sampled.

g) Maturity - A note should be made if any sampled fish are in a spawned out condition. Some spawned out steelhead may be expected early in the season, whereas spawned out chinook and pink may be expected late in the season.

The numbers of each species to be sampled and sampling characteristics are as follows:

(i) Large sockeye salmon. The objective is to obtain 210 samples per week (1700 hrs. Sunday to 1659 hrs. the following Sunday). Sampling should be spread out as evenly as possible (30 per day) throughout the week. It should be noted that test fishery catches will likely be much lower when commercial fisheries directed on Skeena fish are underway than during the closed period. Hypural and nose - fork length and the

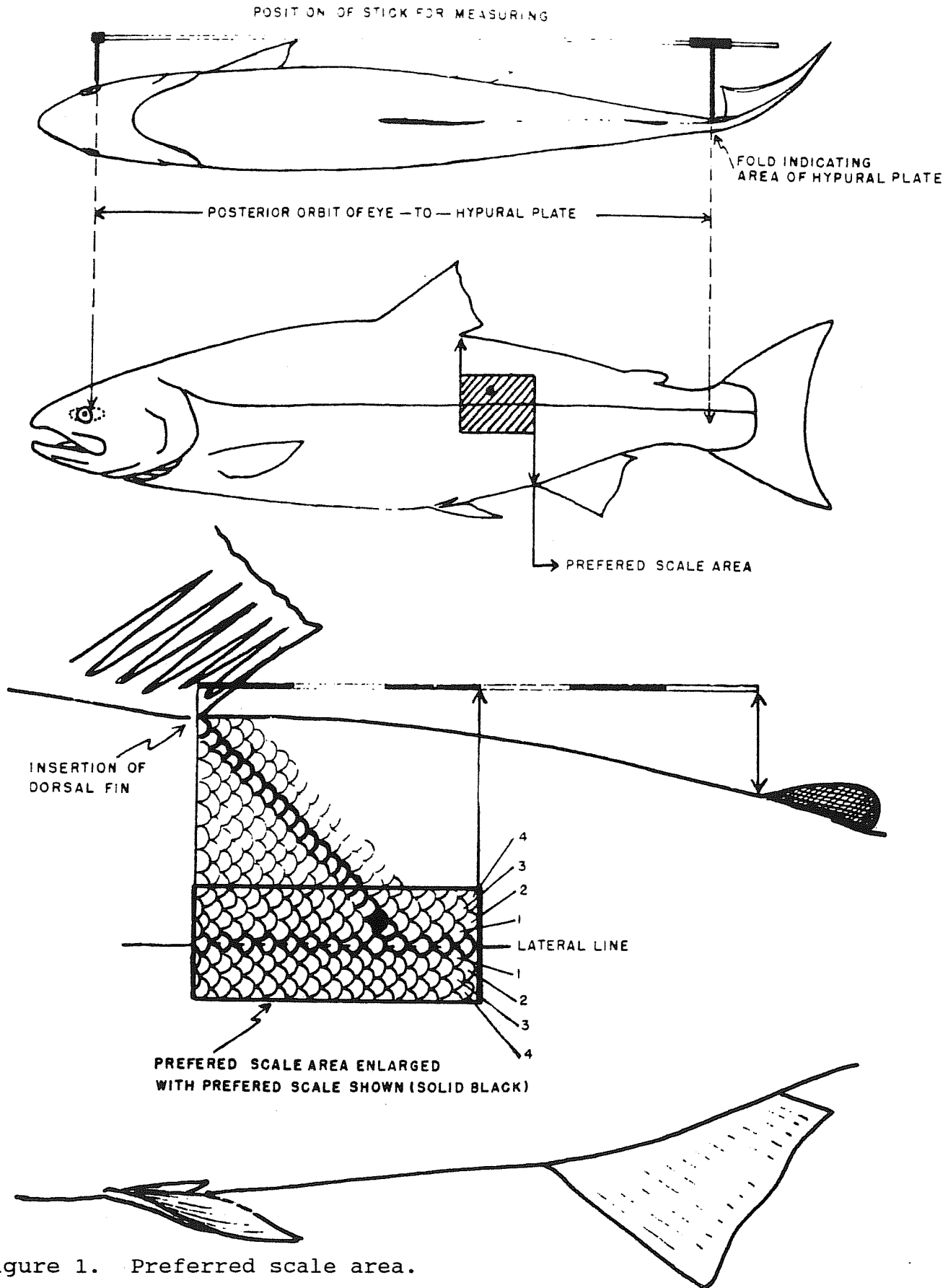


Figure 1. Preferred scale area.

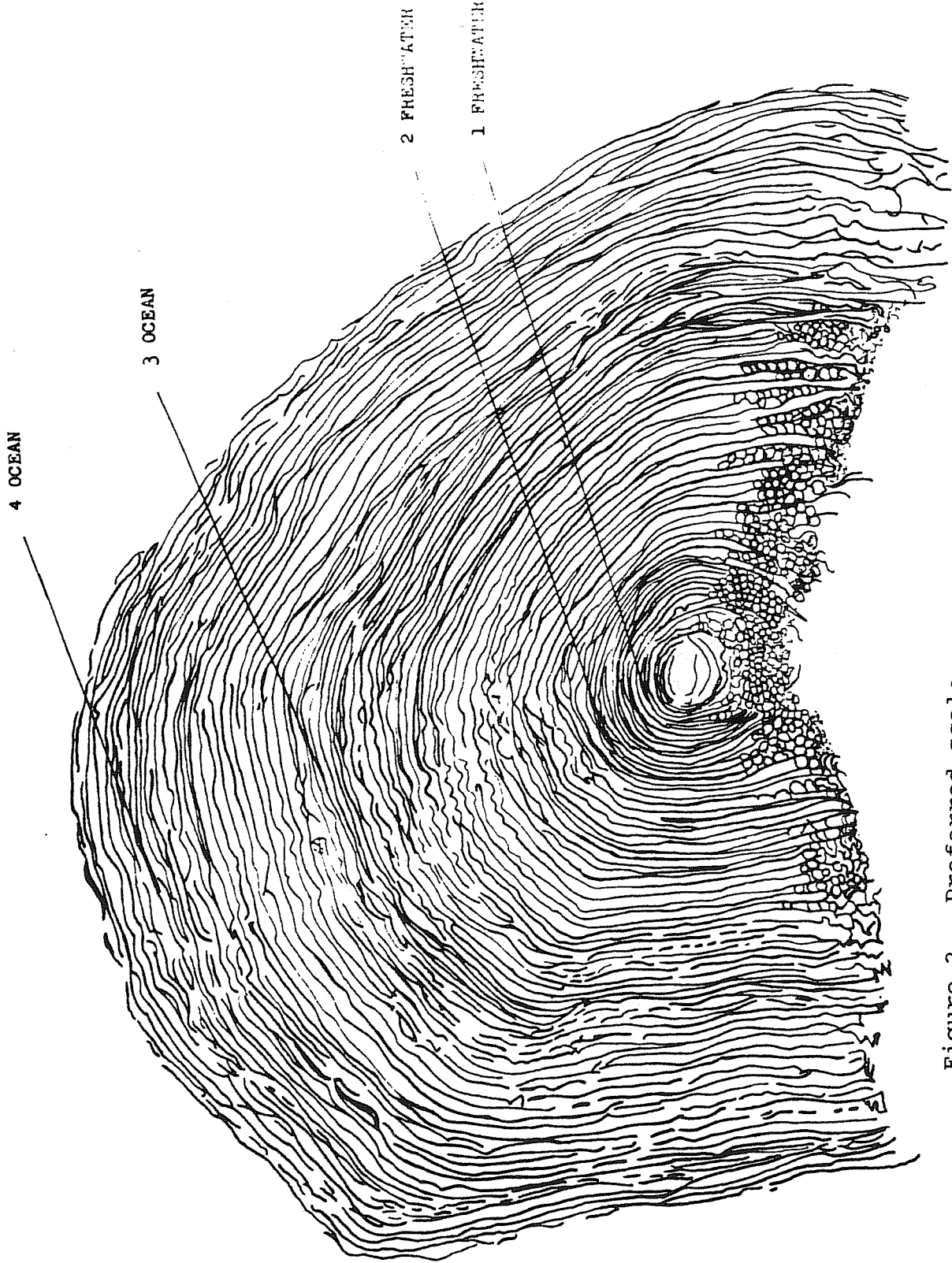


Figure 2. Preferred scale.

sex of each fish sampled should be recorded and scale samples taken.

(ii) Jack sockeye salmon. All jack sockeye (sockeye with a fork length of 43 centimeters or less) should be killed and sampled. The hypural length and the sex of each fish should be recorded and scale samples taken.

(iii) Coho salmon. Hypural length, fork length and sex of each fish should be recorded from all fish which die in the net. Five scale samples should be removed from each fish as well.

(iv) Pink salmon. The objective is to obtain length and sex information from 175 fish each week (1700 hrs. Sunday to 1659 hrs. the following Sunday). These fish should be taken at a rate of 25 per day.

(v) Chum salmon. All chum salmon which die in the gillnet should be sampled. The hypural and nose - fork lengths and sex of each fish should be recorded and scale samples taken.

(vi) Chinook salmon. Up to 10 chinook per day should be sampled. The sampling procedure is similar to that for coho, with the addition of a record of flesh colour (red, pink or white) for each fish sampled.

(vii) Steelhead trout. Each fish that dies in the net should be sampled. The hypural and nose - fork lengths and sex of each fish should be recorded and scale samples taken. Gonad development (spawned out, ripe or undeveloped) should also be noted.

The primary purpose of the test fishery is to obtain a daily/weekly escapement estimate for sockeye and pink salmon through comparison of previous years catch/escapement indices. Catches of chinook, coho, chum and steelhead are too small to give a reliable estimate but can be used to indicate relative abundance by comparing to indices from previous years. The secondary purpose is to sample each species for the above noted parameters.

Commercial salmon fisheries are directed on Skeena River sockeye and pink stocks. Sampling data for these species is therefore of greatest importance but information on all species is collected and is utilized. Gillnet catches are greatest during the peak of sockeye and pink upriver migration and correspondingly increases the time required for sampling net catches. If time constraints require a reduction in catch sampling, coho and chinook data may be limited to those fish which are found dead in the gillnet. If sampling time continues to be onerous, coho and chinook information can be further reduced to recording only hypural length and sex of each fish and collection of scale samples.

APPENDIX 4. Skeena test fishery daily catch information, 1987.

DATE	SET #	SET TIME		PICK TIME		FISHING TIME (MIN)	CATCH IN PIECES								
		HRS	MIN	HRS	MIN		LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD	
JUNE 9	1	18	35	19	35	62.5	0	0	0	0	0	0	0	0	
		18	42	19	47										
	2	7	40	8	40	66	0	0	6	1	0	0	0	0	1
7		46	8	58											
3	11	55	12	55	64	0	0	1	0	0	0	0	0	0	
	12	0	13	8											
JUNE 10	1	19	30	20	30	65	1	0	5	0	0	0	0	0	4
		19	36	20	46										
	2	8	25	9	25	67	0	0	3	0	0	0	0	0	0
8		31	9	45											
3	12	35	13	35	65	0	0	1	0	0	0	0	0	0	
	12	41	13	51											
JUNE 11	1	20	5	21	5	68	0	0	1	0	0	0	0	0	0
		20	11	21	27										
	2	9	25	10	25	81.5	2	0	4	0	0	0	0	0	0
9		32	11	15											
3	13	25	14	25	67	2	0	1	1	0	0	0	0	0	
	13	31	14	45											
JUNE 12	1	10	15	11	15	72.5	0	0	5	0	0	0	0	0	0
		10	20	11	45										
	2	14	5	15	5	70.5	0	0	0	0	0	0	0	0	0
14		11	15	32											
JUNE 13	1	10	58	11	58	70.5	1	0	14	1	0	0	0	0	1
		11	4	12	25										
	2	15	5	16	5	68	0	0	7	0	0	0	0	0	2
15		11	16	27											
JUNE 14	1	11	45	12	45	64	2	0	1	1	0	0	0	0	2
		11	50	12	58										
	2	16	5	17	5	63.5	2	0	3	0	0	0	0	0	1
16		10	17	17											
JUNE 15	1	12	30	13	30	70	0	0	11	2	0	0	0	0	0
		12	35	13	55										
JUNE 16	1	16	50	17	50	67	3	0	2	0	0	0	0	0	1
		16	56	18	10										
	2	4	30	5	30	68.5	1	0	11	0	0	0	0	0	0
4		35	5	52											
3	13	18	14	18	65.5	2	0	9	1	0	0	0	0	0	
	13	24	14	35											
JUNE 17	1	17	40	18	40	65	0	0	2	1	0	0	0	0	0
		17	45	18	55										
	2	5	25	6	25	64	3	0	3	0	0	0	0	0	0
5		31	6	39											
3	14	5	15	5	69.5	11	0	12	0	0	0	0	0	1	
	14	11	15	30											

CATCH IN PIECES

DATE	SET #	SET TIME		PICK TIME		FISHING TIME (MIN)	CATCH IN PIECES							
		HRS	MIN	HRS	MIN		LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 18	1	4	14	5	14	68	5	4	0	0	4	32	0	2
		4	19	5	35									
	2	9	42	10	42	63.5	0	0	0	0	0	0	2	2
	3	16	12	17	12	66	5	0	0	0	1	31	3	1
		16	17	17	29									
AUG 19	1	5	23	6	23	66.5	4	1	0	0	2	26	2	0
		5	28	6	41									
	2	10	41	11	41	63.5	1	0	0	0	0	4	0	0
		10	46	11	53									
AUG 20	1	17	36	18	36	65.5	3	0	0	0	1	23	3	1
		17	41	18	52									
	2	6	26	7	26	66	3	0	0	0	1	23	1	0
		6	31	7	43									
	3	11	44	12	44	63.5	1	0	0	0	0	2	3	0
		11	49	12	56									
AUG 21	1	18	25	19	25	68.5	7	0	0	0	0	33	2	4
		18	30	19	47									
	2	7	22	8	22	67.5	4	0	0	0	2	17	5	4
		7	27	8	42									
	3	12	23	13	23	65	3	0	0	0	0	6	3	2
		12	28	13	38									
AUG 22	1	19	23	20	23	67	8	0	0	0	1	24	0	1
		19	28	20	42									
	2	7	52	8	52	67.5	16	0	0	0	0	30	3	5
		7	57	9	12									
	3	13	11	14	11	64	1	0	0	0	0	8	3	0
		13	16	14	24									
AUG 23	1	8	26	9	26	68	6	1	0	0	1	24	4	4
		8	31	9	47									
	2	13	47	14	47	65.5	12	3	0	0	0	11	1	1
		13	52	15	3									
AUG 24	1	9	4	10	4	69.5	0	0	0	0	1	25	3	5
		9	9	10	28									
	2	14	11	15	11	63.5	0	0	0	0	0	0	1	1
		14	16	15	23									
AUG 25	1	9	31	10	31	65.5	3	0	0	0	2	8	0	1
		9	36	10	47									
	2	14	56	15	56	63	0	0	0	0	0	2	0	0
		15	1	16	7									
AUG 26	1	10	43	11	43	65.5	7	0	0	0	4	22	1	2
		10	48	11	59									
	2	15	26	16	26	64	0	0	0	0	0	1	1	0
		15	31	16	39									

CATCH IN PIECES

DATE	SET #	SET TIME		PICK TIME		FISHING TIME (MIN)	CATCH IN PIECES							
		HRS	MIN	HRS	MIN		LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
AUG 27	1	10	58	11	58	67	2	0	0	0	0	13	3	2
		11	3	12	17									
	2	15	47	16	47	63.5	0	0	0	0	0	6	0	0
		15	52	16	59									
AUG 28	1	4	38	5	38	64.5	0	0	0	0	0	1	0	0
		4	43	5	52									
	2	12	5	13	5	66	3	0	0	0	0	6	0	0
		12	10	13	22									
	3	16	14	17	14	63.5	0	0	0	0	0	3	2	0
		16	19	17	26									
AUG 29	1	5	20	6	20	65	0	0	0	0	0	0	0	1
		5	25	6	35									
	2	12	37	13	37	67	3	0	0	0	0	4	7	2
		12	42	13	56									
AUG 30	1	5	5	6	5	64.5	0	0	0	0	0	0	1	0
		5	10	6	19									
	2	11	54	12	54	66	6	0	0	0	0	4	3	1
		11	59	13	11									
AUG 31	1	17	5	18	5	65.5	0	0	0	0	0	0	0	0
		17	10	18	21									
	2	5	50	6	50	65.5	0	0	0	0	0	0	0	0
		5	55	7	6									
	3	12	33	13	33	65.5	0	0	0	0	0	1	3	1
		12	38	13	49									
SEPT 1	1	17	48	18	48	65.5	0	0	0	0	0	0	1	0
		17	53	19	4									
	2	6	54	7	54	64	0	0	0	0	0	0	0	0
		6	59	8	7									
	3	13	35	14	35	67	0	0	0	0	0	3	1	0
		13	40	14	54									
SEPT 2	1	8	17	9	17	60	0	0	0	0	2	13	2	0
		8	22	9	22									
	2	15	6	16	6	72	3	0	0	0	15	32	0	6
		15	11	16	35									
SEPT 3	1	11	2	12	2	67	0	0	0	0	5	21	2	5
		11	7	12	21									
SEPT 4	1	16	50	17	50	70.5	0	0	0	0	12	17	2	8
		16	55	18	16									
	2	6	2	7	2	74.5	0	0	0	0	26	9	3	20
		6	7	7	36									

CATCH IN PIECES

DATE	SET #	SET TIME		PICK TIME		FISHING TIME (MIN)	CATCH IN PIECES							
		HRS	MIN	HRS	MIN		LG. SOCK	JK. SOCK	LG. CHIN	JK. CHIN	COHO	PINK	CHUM	STHD
SEPT 5	1	18	5	19	5	73.5	0	0	0	0	11	1	2	14
		18	10	19	37									
	2	7	5	8	5	67.5	0	0	0	0	4	2	3	5
		7	11	8	26									
	3	12	20	13	20	65	1	0	0	0	4	4	1	4
		12	25	13	35									
SEPT 6	1	19	5	20	5	68.5	1	0	0	0	2	3	5	8
		19	10	20	27									
	2	7	56	8	56	68	0	0	0	0	8	1	2	11
		8	1	9	17									
	3	13	20	14	20	66	0	0	0	0	2	0	2	1
		13	25	14	37									
TOTAL =							3828	353	720	137	194	5398	122	336

APPENDIX 5. 1987 Prince Rupert region daily tide table.

TIDE TABLES

1987

PRINCE RUPERT (PST)

JUNE-JUIN												JULY-JUILLET												AUGUST-AOÛT												SEPTEMBER-SEPTEMBRE											
Day	Time	HI	LL	Ht/m	Hour	HI	LL	Ht/m	Day	Time	HI	LL	Ht/m	Day	Time	HI	LL	Ht/m	Day	Time	HI	LL	Ht/m	Day	Time	HI	LL	Ht/m	Day	Time	HI	LL	Ht/m														
1	0345	18.4	5.6	16	0425	20.5	6.2	16	0415	19.2	5.9	16	0505	19.2	5.9	1	0515	19.9	5.2	16	0630	5.9	1.9	1	0030	6.3	1.9	16	0215	7.8	2.3																
MO	1655	16.7	4.8	15	1100	22.5	5.8	1120	4.6	1.4	12	1105	6.8	1.2	12	1105	6.8	1.2	12	1105	6.8	1.2	12	0650	16.9	4.9	16	0815	14.3	3.8																	
TU	2240	9.8	3.0	MA	2330	7.4	2.3	ME	2255	9.6	2.6	JE	1720	17.6	5.4	TH	1750	19.9	6.1	SA	1210	18.9	5.6	MA	1640	18.9	5.8	ME	2040	14.3	5.0																
2	0425	17.6	5.4	17	0525	19.2	5.9	12	0450	17.4	5.3	17	0005	6.0	1.6	2	0000	6.9	2.1	17	0135	6.6	2.0	2	0155	6.4	2.0	17	0345	7.4	2.3																
TU	1145	5.8	1.7	WE	1630	3.8	5.8	TH	1740	17.7	5.4	FR	1215	5.9	1.8	SU	1150	7.0	2.4	MO	0345	14.9	4.5	3	0830	14.8	4.5	17	1025	15.8	4.8																
MA	2425	10.1	3.1	ME	JE	2350	6.5	2.6	VE	1840	18.3	4.9	TH	1815	18.7	5.7	LU	1950	17.5	5.3	ME	2005	16.4	5.6	JE	2195	17.1	5.2	18	0435	8.6	2.0															
3	0520	16.7	5.1	18	0635	17.3	2.5	19	0540	16.5	5.0	18	0110	6.2	1.9	3	0105	6.8	2.1	18	0255	6.9	2.1	3	0320	6.7	1.7	18	0435	8.6	2.0																
WE	1635	16.4	5.0	JE	FR	1825	17.8	5.4	SA	1935	18.8	5.7	LU	1915	18.6	5.7	MA	2110	17.4	5.3	JE	2130	19.2	5.9	VE	2250	17.9	5.5	19	0520	5.7	1.7															
4	0630	10.0	3.0	19	0745	16.8	5.0	20	0640	15.9	3.5	SU	1300	7.6	2.3	MO	1245	9.0	2.7	TU	1445	10.8	3.4	FR	1655	9.0	3.0	3	1110	18.6	5.1																
TU	1130	16.7	5.1	VE	FR	2030	18.0	5.8	SA	1915	18.1	5.5	DI	2040	18.5	5.4	MA	2025	18.9	5.8	ME	2240	20.4	6.2	SA	2330	18.9	5.7	19	0520	5.7	1.7															
5	0140	9.4	2.9	20	0855	16.3	5.0	21	0750	15.3	4.7	20	0325	6.0	1.6	5	0335	5.4	1.6	20	0605	5.8	1.9	5	0530	3.0	9	20	0555	4.9	1.5																
FR	1345	17.4	2.2	SA	1450	7.5	2.3	SU	1535	8.2	2.5	MO	1515	9.8	3.0	TH	1710	10.9	3.6	SA	2340	21.6	6.6	DI	1815	17.3	5.2	20	0555	4.9	1.5																
6	0245	8.3	2.5	21	0955	15.5	5.1	22	0855	15.3	4.7	21	0430	6.5	1.7	6	0445	5.9	1.7	21	0555	4.9	1.5	6	0615	1.9	6	21	0605	18.6	6.0																
SA	0840	15.7	2.3	SU	1555	8.2	2.5	MO	1440	8.8	2.7	TU	1625	10.0	3.0	TH	1840	9.1	2.8	FR	1755	9.0	2.7	SU	1825	5.3	1.6	LU	1840	4.1	1.9																
SA	2110	18.3	5.6	DI	2215	19.8	6.0	LU	2105	19.2	5.9	MA	2235	18.7	4.7	JE	2245	20.7	6.3	VE	2355	19.2	5.9	DI	1825	5.3	1.6	LU	1840	4.1	1.9																
7	0345	6.9	2.1	22	1045	14.7	4.7	23	0945	14.2	4.8	22	0545	4.9	1.5	7	0545	4.9	1.5	22	0640	4.2	1.3	7	0630	22.4	6.8	22	0645	20.1	6.1																
TU	1355	17.7	2.3	MO	1650	8.9	2.6	TU	1540	9.0	2.7	WE	1725	12.5	4.4	8	0645	5.6	1.6	23	0645	4.1	1.2	8	0615	1.3	4	23	0655	4.1	1.2																
DI	2155	19.3	5.9	LU	2300	19.8	6.0	LU	2200	20.1	6.1	ME	2325	19.7	5.3	FR	1745	7.9	2.4	SA	1830	8.1	2.5	MO	1315	21.6	6.6	TU	1315	20.4	6.2																
8	0435	5.3	1.6	23	1140	17.1	5.2	24	1040	16.8	5.1	23	0645	4.3	1.3	8	0645	4.3	1.3	23	0645	4.3	1.3	8	0615	22.7	6.9	23	0615	20.4	6.2																
MO	1630	16.0	6.2	SA	1740	8.7	2.7	ME	1830	9.2	2.8	TH	1840	9.2	2.8	FR	1745	7.9	2.4	SA	1830	8.1	2.5	MO	1315	21.6	6.6	TU	1315	20.4	6.2																
TU	2240	20.4	6.2	SA	1740	8.7	2.7	ME	1830	9.2	2.8	TH	1840	9.2	2.8	FR	1745	7.9	2.4	SA	1830	8.1	2.5	MO	1315	21.6	6.6	TU	1315	20.4	6.2																
9	0535	3.7	1.1	24	1245	17.5	5.3	25	1145	17.8	5.3	24	0745	3.7	1.1	9	0745	3.7	1.1	24	0745	3.7	1.1	9	0630	22.4	6.8	24	0630	20.4	6.2																
TU	1350	17.6	5.4	25	1345	18.1	5.5	26	1245	18.1	5.5	25	0845	3.7	1.1	9	0845	3.7	1.1	24	0745	3.7	1.1	9	0630	22.4	6.8	24	0630	20.4	6.2																
MA	2125	21.4	6.5	ME	2245	22.1	6.7	26	1345	22.1	6.7	25	0945	3.7	1.1	9	0945	3.7	1.1	24	0745	3.7	1.1	9	0630	22.4	6.8	24	0630	20.4	6.2																
10	0630	2.3	7	25	1445	18.4	5.6	26	1445	18.4	5.6	26	1045	3.3	1.0	10	1045	3.3	1.0	25	0945	3.3	1.0	10	0645	21.6	6.6	25	0645	20.0	6.1																
ME	1805	7.4	2.3	JE	1940	8.6	2.6	VE	1845	7.3	2.2	SA	1925	8.1	2.5	MO	1340	21.3	6.5	TU	1430	19.8	6.0	TH	1500	22.4	6.8	FR	1425	21.5	6.6																
11	0730	22.3	6.8	26	1540	19.0	6.2	27	1540	19.0	6.2	27	1145	22.9	7.0	26	1145	22.9	7.0	26	1145	22.9	7.0	26	0645	21.6	6.6	25	0645	20.0	6.1																
TH	1820	18.0	5.8	FR	1645	17.9	5.5	SA	1840	18.5	6.0	SU	1430	19.8	6.0	TH	1500	22.4	6.8	FR	1425	21.5	6.6																								
JE	1855	7.2	2.2	VE	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6	SA	1935	8.5	2.6												
12	0835	22.8	6.9	27	1645	18.0	6.1	28	1645	18.0	6.1	28	1245	20.1	6.1	12	1245	20.1	6.1	27	1645	18.0	6.1	28	0645	21.6	6.6	25	0645	20.0	6.1																
FR	1410	19.3	5.9	SA	1440	18.0	6.0	28	1645	18.0	6.1	28	1245	20.1	6.1	12	1245	20.1	6.1	27	1645	18.0	6.1	28	0645	21.6	6.6	25	0645	20.0	6.1																
13	0835	22.9	7.0	28	1745	19.5	3.2	10	1745	19.5	3.2	10	1345	20.5	6.7	28	1345	20.5	6.7	28	1345	20.5	6.7	28	0645	21.6	6.6	25	0645	20.0	6.1																
SA	1935	7.0	2.1	DI	2050	8.5	2.6	LU	2115	5.6	1.7	MA	2115	5.6	1.7	28	1345	20.5	6.7	28	1345	20.5	6.7	28	0645	21.6	6.6	25	0645	20.0	6.1																
14	0935	22.5	6.8	29	1845	19.5	5.1	29	1845	19.5	5.1	29	1445	20.4	6.3	29	1445	20.4	6.3	29	1445	20.4	6.3	29	0645	21.6	6.6	25	0645	20.0	6.1																
SU	1935	7.0	2.1	DI	2050	8.5	2.6	LU	2115	5.6	1.7	MA	2115	5.6	1.7	29	1445	20.4	6.3	29	1445	20.4	6.3	29	0645	21.6	6.6	25	0645	20.0	6.1																
15	1030	21.7	6.6	30	1945	18.9	5.8	30	1945	18.9	5.8	30	1545	20.5	6.8	30	1545	20.5	6.8	30	1545	20.5	6.8	30	0645	21.6	6.6	25	0645	20.0	6.1																
MO	1610	19.2	4.6	TU	1625	17.7	5.4	31	1625	17.7	5.4	31	1625	17.7	5.4	31	1625	17.7	5.4	31	1625	17.7	5.4	31	0645	21.6	6.6	25	0645	20.0	6.1																
LU	2225	7.3	2.2	MA	2210	8.6	2.6	ME	2305	5.7	1.7	SA	2305	5.7	1.7	31	1625	17.7	5.4	31	1625	17.7	5.4	31	0645	21.6	6.6	25	0645	20.0	6.1																

APPENDIX 6. Indices of escapement by set and daily average for all species in the Skeena River gillnet test fishery, 1987.

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 9	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	5.45	0.91	0.00	0.00	0.00	0.91
	3	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	2.13	0.30	0.00	0.00	0.00	0.30
JUNE 10	1	0.92	0.00	4.62	0.00	0.00	0.00	0.00	3.69
	2	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.31	0.00	2.74	0.00	0.00	0.00	0.00	1.23
JUNE 11	1	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00
	2	1.47	0.00	2.94	0.00	0.00	0.00	0.00	0.00
	3	1.79	0.00	0.90	0.90	0.00	0.00	0.00	0.00
	AVERAGE	1.09	0.00	1.57	0.30	0.00	0.00	0.00	0.00
JUNE 12	1	0.00	0.00	4.14	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00
JUNE 13	1	0.85	0.00	11.91	0.85	0.00	0.00	0.00	0.85
	2	0.00	0.00	6.18	0.00	0.00	0.00	0.00	1.76
	AVERAGE	0.43	0.00	9.05	0.43	0.00	0.00	0.00	1.31
JUNE 14	1	1.88	0.00	0.94	0.94	0.00	0.00	0.00	1.88
	2	1.89	0.00	2.83	0.00	0.00	0.00	0.00	0.94
	AVERAGE	1.88	0.00	1.89	0.47	0.00	0.00	0.00	1.41
JUNE 15	1	0.00	0.00	9.43	1.71	0.00	0.00	0.00	0.00
	AVERAGE	0.00	0.00	9.43	1.71	0.00	0.00	0.00	0.00
JUNE 16	1	2.69	0.00	1.79	0.00	0.00	0.00	0.00	0.90
	2	0.88	0.00	9.64	0.00	0.00	0.00	0.00	0.00
	3	1.83	0.00	8.24	0.92	0.00	0.00	0.00	0.00
	AVERAGE	1.80	0.00	6.56	0.31	0.00	0.00	0.00	0.30
JUNE 17	1	0.00	0.00	1.85	0.92	0.00	0.00	0.00	0.00
	2	2.81	0.00	2.81	0.00	0.00	0.00	0.00	0.00
	3	9.50	0.00	10.36	0.00	0.00	0.00	0.00	0.86
	AVERAGE	4.10	0.00	5.01	0.31	0.00	0.00	0.00	0.29

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 18	1	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00
	3	1.86	0.00	2.79	0.00	0.00	0.00	0.00	1.86
	AVERAGE	3.08	0.00	2.45	0.00	0.00	0.00	0.00	0.62
JUNE 19	1	3.72	0.00	4.65	0.00	0.00	0.00	0.00	2.79
	2	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.94
	3	2.50	0.00	15.00	1.67	0.00	0.00	0.00	3.33
	AVERAGE	3.32	0.00	6.55	0.56	0.00	0.00	0.00	2.35
JUNE 20	1	2.63	0.00	5.26	0.88	0.00	0.00	0.00	3.50
	2	1.80	0.00	4.51	0.00	0.00	0.00	0.00	0.90
	3	2.65	0.00	7.94	0.00	0.00	0.00	0.00	3.53
	AVERAGE	2.36	0.00	5.90	0.29	0.00	0.00	0.00	2.65
JUNE 21	1	2.77	0.00	3.69	1.85	0.00	0.00	0.00	0.92
	2	3.78	0.00	2.83	0.94	0.00	0.00	0.00	0.00
	AVERAGE	3.27	0.00	3.26	1.40	0.00	0.00	0.00	0.46
JUNE 22	1	2.77	0.00	1.85	0.00	0.00	0.00	0.00	1.85
	2	1.74	0.00	7.83	0.00	0.00	0.00	0.00	0.87
	3	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.92
	AVERAGE	2.42	0.00	4.14	0.00	0.00	0.00	0.00	1.21
JUNE 23	1	5.87	0.00	15.10	0.00	0.00	0.00	0.00	2.52
	2	4.32	0.00	5.18	0.86	0.00	0.00	0.00	1.73
	3	0.87	0.00	2.61	0.87	0.00	0.00	0.00	0.00
	AVERAGE	3.69	0.00	7.63	0.58	0.00	0.00	0.00	1.41
JUNE 24	1	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	11.22	2.59	0.00	0.00	0.00	0.00
	3	2.42	0.00	4.83	0.00	0.00	0.00	0.00	0.00
	AVERAGE	1.09	0.00	5.64	0.86	0.00	0.00	0.00	0.00
JUNE 25	1	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00
	2	4.32	0.00	10.36	0.86	0.00	0.00	0.00	0.00
	3	8.82	0.00	3.53	1.76	0.00	0.00	0.00	0.00
	AVERAGE	6.35	0.00	6.60	0.88	0.00	0.00	0.00	0.00

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JUNE 26	1	8.63	0.00	12.09	0.86	0.00	0.00	0.00	0.86
	2	8.76	0.00	7.01	0.88	0.00	0.00	0.00	0.00
	AVERAGE	8.70	0.00	9.55	0.87	0.00	0.00	0.00	0.43
JUNE 27	1	8.51	0.00	9.36	0.85	0.00	0.00	0.00	3.40
	2	12.92	0.00	4.62	2.77	0.00	0.00	0.00	0.92
	AVERAGE	10.72	0.00	6.99	1.81	0.00	0.00	0.00	2.16
JUNE 28	1	2.71	0.00	5.41	0.00	0.00	0.00	0.00	0.00
	2	23.65	0.00	7.88	0.88	0.00	0.00	0.00	5.26
	AVERAGE	13.18	0.00	6.65	0.44	0.00	0.00	0.00	2.63
JUNE 29	1	9.02	0.00	3.61	0.00	0.00	0.00	0.00	0.90
	2	20.00	0.00	1.74	0.00	0.00	0.00	0.00	3.48
	AVERAGE	14.51	0.00	2.67	0.00	0.00	0.00	0.00	2.19
JUNE 30	1	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00
	2	13.43	0.84	4.20	0.84	0.00	0.00	0.00	0.00
	3	0.92	0.00	2.75	0.00	0.00	0.00	0.00	0.00
	AVERAGE	5.70	0.28	3.23	0.28	0.00	0.00	0.00	0.00
JULY 1	1	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00
	2	0.92	0.00	1.83	0.00	0.00	0.00	0.00	0.00
	AVERAGE	1.85	0.00	2.31	0.00	0.00	0.00	0.00	0.00
JULY 2	1	5.03	0.00	5.03	0.00	0.00	0.00	0.00	0.00
	2	2.47	0.00	6.58	0.82	0.00	0.00	0.00	0.00
	3	0.00	0.00	8.12	0.00	0.00	0.00	0.00	0.00
	AVERAGE	2.50	0.00	6.58	0.27	0.00	0.00	0.00	0.00
JULY 3	1	1.60	0.00	4.80	1.60	0.00	0.00	0.00	1.60
	2	0.00	0.00	7.33	0.00	0.00	0.00	0.00	0.00
	3	8.82	0.00	7.94	0.00	0.00	0.00	0.00	1.76
	AVERAGE	3.47	0.00	6.69	0.53	0.00	0.00	0.00	1.12
JULY 4	1	5.58	0.00	3.72	0.00	0.00	0.00	0.00	0.00
	2	6.32	0.00	3.61	0.00	0.00	0.00	0.00	0.00
	3	8.37	0.00	7.44	0.00	0.00	0.00	0.00	0.00
	AVERAGE	6.76	0.00	4.92	0.00	0.00	0.00	0.00	0.00

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 5	1	12.26	0.00	7.01	0.00	0.00	0.00	0.00	1.75
	2	1.86	0.00	7.44	0.00	0.00	0.00	0.00	0.00
	3	8.24	0.00	1.83	0.92	0.00	0.00	0.00	0.00
	4	9.23	0.00	9.23	0.92	0.00	0.00	0.00	0.92
	AVERAGE	7.90	0.00	6.38	0.46	0.00	0.00	0.00	0.67
JULY 6	1	30.45	0.90	3.58	0.90	0.00	0.00	0.00	0.00
	2	5.18	0.00	6.04	0.86	0.00	0.00	0.00	0.00
	3	2.73	0.00	4.55	0.91	0.00	0.00	0.00	0.00
	4	1.82	0.00	4.55	0.00	0.00	0.00	0.91	0.00
	AVERAGE	10.04	0.22	4.68	0.67	0.00	0.00	0.23	0.00
JULY 7	1	8.18	0.00	1.82	0.00	0.00	0.00	0.00	0.00
	2	3.45	0.00	10.36	0.00	0.00	0.00	0.00	0.00
	3	21.33	0.89	5.33	0.00	0.00	0.89	0.00	0.00
	AVERAGE	10.99	0.30	5.84	0.00	0.00	0.30	0.00	0.00
JULY 8	1	14.22	0.89	4.44	2.67	0.00	0.00	0.00	0.00
	2	14.78	0.00	11.30	2.61	0.00	0.00	0.00	0.00
	3	12.26	0.88	10.51	0.00	0.00	0.00	0.00	0.00
	AVERAGE	13.76	0.59	8.75	1.76	0.00	0.00	0.00	0.00
JULY 9	1	16.52	0.00	4.35	1.74	0.00	0.00	0.00	0.87
	2	12.24	0.00	10.61	2.45	0.00	0.00	0.00	0.00
	3	11.73	0.00	1.80	1.80	0.00	0.00	0.00	0.90
	AVERAGE	13.50	0.00	5.59	2.00	0.00	0.00	0.00	0.59
JULY 10	1	10.00	0.00	4.55	2.73	0.00	0.00	0.00	0.91
	2	13.78	0.00	17.84	0.81	0.00	0.00	0.00	0.00
	3	14.01	0.00	4.38	0.00	0.00	0.00	0.00	0.00
	AVERAGE	12.60	0.00	8.92	1.18	0.00	0.00	0.00	0.30
JULY 11	1	29.37	1.68	5.87	0.84	0.00	0.84	0.00	0.00
	2	22.50	0.83	1.67	0.83	0.00	0.00	0.00	0.83
	AVERAGE	25.94	1.26	3.77	0.84	0.00	0.42	0.00	0.42
JULY 12	1	31.27	0.00	5.92	2.54	0.00	2.54	0.00	0.85
	2	9.64	0.00	5.26	0.00	0.00	0.88	0.00	0.88
	AVERAGE	20.45	0.00	5.59	1.27	0.00	1.71	0.00	0.86

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 13	1	32.96	1.69	4.23	1.69	0.00	0.00	0.00	0.85
	2	10.83	0.00	6.32	1.80	0.00	0.00	0.00	0.00
	AVERAGE	21.89	0.85	5.27	1.75	0.00	0.00	0.00	0.42
JULY 14	1	1.75	0.88	3.50	0.00	0.00	0.00	0.00	0.00
	2	25.04	0.00	8.63	2.59	0.00	2.59	0.00	0.86
	3	8.37	0.00	4.65	0.00	0.00	1.86	0.00	0.00
AVERAGE	11.72	0.29	5.60	0.86	0.00	1.48	0.00	0.29	
JULY 15	1	10.29	0.86	6.00	1.71	0.00	0.00	0.00	0.00
	2	42.08	1.56	10.91	6.23	0.78	3.90	0.00	1.56
	AVERAGE	26.18	1.21	8.45	3.97	0.39	1.95	0.00	0.78
JULY 16	1	12.17	0.87	5.22	2.61	0.00	0.87	0.00	0.00
	2	22.73	3.64	5.45	4.55	0.00	0.00	0.00	0.00
	3	37.24	1.03	5.17	2.07	1.03	8.28	0.00	1.03
AVERAGE	24.05	1.85	5.28	3.07	0.34	3.05	0.00	0.34	
JULY 17	1	35.04	0.00	6.13	2.63	0.88	4.38	0.00	0.00
	2	24.35	0.00	6.96	0.00	0.00	6.96	0.87	0.87
	3	94.66	4.47	3.73	5.96	0.75	32.80	0.00	2.24
AVERAGE	51.35	1.49	5.60	2.86	0.54	14.71	0.29	1.04	
JULY 18	1	119.24	0.00	1.53	3.06	0.76	4.59	0.00	0.00
	2	52.03	1.68	5.03	0.00	0.84	19.30	0.00	0.84
	3	122.89	0.72	0.00	0.00	0.72	39.76	0.00	2.89
AVERAGE	98.05	0.80	2.19	1.02	0.78	21.22	0.00	1.24	
JULY 19	1	56.12	0.00	0.86	1.73	0.86	9.50	0.00	0.86
	2	50.00	0.00	1.67	1.67	0.00	6.67	0.00	0.00
	3	141.50	4.86	1.39	1.39	0.00	61.73	0.00	2.08
AVERAGE	82.54	1.62	1.31	1.59	0.29	25.97	0.00	0.98	
JULY 20	1	31.20	4.00	3.20	1.60	0.00	33.60	0.00	0.00
	2	19.24	0.00	0.00	0.92	0.00	6.41	0.00	0.00
	AVERAGE	25.22	2.00	1.60	1.26	0.00	20.01	0.00	0.00
JULY 21	1	25.71	1.71	0.86	0.86	0.00	23.14	0.00	0.86
	2	27.69	1.68	2.52	1.68	1.68	23.50	0.00	0.00
	3	4.23	0.00	0.85	0.00	0.00	3.38	0.00	0.00
AVERAGE	19.21	1.13	1.41	0.85	0.56	16.67	0.00	0.29	

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 22	1	30.79	2.37	1.58	0.00	0.79	56.84	0.00	0.79
	2	9.36	1.70	4.26	1.70	0.85	11.91	0.00	0.00
	3	15.12	0.94	0.94	0.00	0.00	5.67	0.00	0.00
	AVERAGE	18.42	1.67	2.26	0.57	0.55	24.81	0.00	0.26
JULY 23	1	16.17	5.11	1.70	0.00	0.00	30.64	0.00	2.55
	2	20.41	2.45	2.45	0.82	0.82	38.37	0.00	0.82
	3	6.13	0.88	2.63	0.00	0.00	30.66	0.00	0.00
	AVERAGE	14.24	2.81	2.26	0.27	0.27	33.22	0.00	1.12
JULY 24	1	13.24	0.00	0.88	0.00	0.00	32.65	0.00	0.00
	2	68.68	6.79	3.02	3.02	0.75	43.02	0.00	0.00
	3	16.49	1.83	0.92	0.00	0.00	15.57	0.00	0.00
	AVERAGE	32.80	2.87	1.61	1.01	0.25	30.41	0.00	0.00
JULY 25	1	29.59	6.58	0.00	0.82	0.82	61.64	0.00	0.82
	2	45.19	2.34	1.56	0.78	0.00	50.65	0.00	0.78
	3	25.53	0.85	1.70	0.85	0.00	38.30	0.00	2.55
	AVERAGE	33.44	3.25	1.09	0.82	0.27	50.20	0.00	1.38
JULY 26	1	34.86	0.81	0.81	3.24	2.43	40.54	0.00	0.81
	2	36.34	0.85	0.85	0.00	1.69	39.72	0.00	1.69
	AVERAGE	35.60	0.83	0.83	1.62	2.06	40.13	0.00	1.25
JULY 27	1	38.96	4.68	0.00	0.78	1.56	62.34	0.00	2.34
	2	28.03	3.50	0.88	0.00	0.00	21.02	0.00	0.00
	AVERAGE	33.50	4.09	0.44	0.39	0.78	41.68	0.00	1.17
JULY 28	1	20.44	3.56	0.89	0.89	0.89	39.11	0.00	0.00
	2	22.77	2.63	0.88	0.00	0.88	76.20	0.00	0.00
	AVERAGE	21.61	3.09	0.88	0.44	0.88	57.66	0.00	0.00
JULY 29	1	37.16	6.97	2.32	0.00	0.00	71.23	0.77	0.00
	2	47.37	3.16	1.58	0.79	1.58	73.42	0.00	0.79
	3	34.76	1.66	0.00	0.83	0.83	46.34	0.00	0.83
	AVERAGE	39.76	3.93	1.30	0.54	0.80	63.66	0.26	0.54
JULY 30	1	53.25	4.77	0.79	1.59	1.59	31.79	0.00	0.00
	2	45.82	8.73	0.00	0.73	2.91	67.64	0.00	0.73
	AVERAGE	49.53	6.75	0.40	1.16	2.25	49.71	0.00	0.36

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
JULY 31	1	35.47	1.51	1.51	0.00	1.51	62.64	1.51	0.00
	2	34.17	1.59	0.79	0.79	0.00	68.34	0.79	0.00
	3	78.70	30.14	1.12	0.00	1.12	190.33	0.56	2.79
	AVERAGE	49.45	11.08	1.14	0.26	0.88	107.10	0.95	0.93
AUG 1	1	24.32	4.86	1.62	0.00	3.24	107.84	0.00	0.00
	2	17.84	1.62	0.81	0.00	0.00	41.35	0.81	0.81
	3	34.48	3.45	0.00	0.69	3.45	144.14	0.00	5.52
	AVERAGE	25.55	3.31	0.81	0.23	2.23	97.78	0.27	2.11
AUG 2	1	38.73	3.80	0.76	0.00	0.76	74.43	0.00	1.52
	2	26.49	17.92	0.78	0.00	0.78	66.23	0.78	0.00
	3	45.35	13.26	0.00	0.00	2.79	99.77	0.00	1.40
	AVERAGE	36.86	11.66	0.51	0.00	1.44	80.14	0.26	0.97
AUG 3	1	9.60	4.00	0.00	0.00	0.80	74.40	0.00	0.00
	2	7.22	5.41	0.90	0.00	0.00	8.12	1.80	0.00
	3	7.30	2.43	0.00	0.00	0.00	77.84	0.81	0.00
	AVERAGE	8.04	3.95	0.30	0.00	0.27	53.45	0.87	0.00
AUG 4	1	7.22	1.80	0.00	0.00	0.00	26.17	0.00	0.00
	2	0.94	0.00	0.00	0.00	0.00	0.00	0.94	0.00
	3	11.76	0.78	0.78	0.00	0.00	80.78	0.00	0.00
	AVERAGE	6.64	0.86	0.26	0.00	0.00	35.65	0.31	0.00
AUG 5	1	4.93	1.64	0.00	0.00	0.00	62.47	0.00	1.64
	2	2.88	0.00	0.00	0.00	0.00	3.84	0.96	0.00
	3	6.09	3.48	0.00	0.00	1.74	72.17	0.87	0.00
	AVERAGE	4.63	1.71	0.00	0.00	0.58	46.16	0.61	0.55
AUG 6	1	14.21	1.58	0.00	0.00	2.37	78.95	0.79	1.58
	2	8.76	0.00	0.00	0.00	0.00	44.67	0.00	0.00
	AVERAGE	11.48	0.79	0.00	0.00	1.18	61.81	0.39	0.79
AUG 7	1	16.82	2.29	0.00	0.00	0.00	103.18	0.00	1.53
	2	19.50	1.50	0.00	0.00	2.25	81.00	1.50	6.00
	3	9.64	1.75	1.75	0.00	0.88	19.27	0.00	2.63
	AVERAGE	15.32	1.85	0.58	0.00	1.04	67.82	0.50	3.39

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 8	1	29.33	4.00	0.67	0.00	0.67	166.00	2.67	6.67
	2	14.68	1.73	0.00	0.00	0.00	24.17	0.00	3.45
	3	11.51	1.64	0.82	0.00	0.82	47.67	0.00	2.47
	AVERAGE	18.51	2.46	0.50	0.00	0.50	79.28	0.89	4.20
AUG 9	1	14.33	4.48	0.00	0.00	0.00	13.43	0.90	0.90
	2	2.71	5.41	0.00	0.00	0.00	8.12	0.00	0.00
	AVERAGE	8.52	4.95	0.00	0.00	0.00	10.78	0.45	0.45
AUG 10	1	7.27	1.82	0.00	0.00	1.82	5.45	0.00	1.82
	2	0.00	0.93	0.00	0.00	0.00	24.19	0.00	0.93
	AVERAGE	3.64	1.37	0.00	0.00	0.91	14.82	0.00	1.37
AUG 11	1	8.96	2.69	0.90	0.00	0.00	25.97	0.90	0.90
	2	0.00	0.92	0.92	0.00	0.00	9.16	0.00	1.83
	AVERAGE	4.48	1.80	0.91	0.00	0.00	17.57	0.45	1.36
AUG 12	1	0.00	0.94	0.00	0.00	0.00	1.88	0.00	0.00
	2	7.94	0.88	0.00	0.00	1.76	16.76	0.00	2.65
	3	0.00	0.92	0.00	0.00	0.00	3.66	0.00	0.92
	AVERAGE	2.65	0.91	0.00	0.00	0.59	7.43	0.00	1.19
AUG 13	1	1.80	0.00	0.00	0.00	0.00	11.73	0.00	0.90
	2	1.74	1.74	0.00	0.00	0.87	5.22	0.87	0.87
	AVERAGE	1.77	0.87	0.00	0.00	0.43	8.47	0.43	0.89
AUG 14	1	0.89	0.00	0.00	0.00	0.89	83.56	0.00	0.00
	2	5.58	0.00	0.00	0.00	0.00	17.67	0.00	0.93
	3	25.43	5.56	0.00	0.00	1.59	54.83	1.59	1.59
	AVERAGE	10.63	1.85	0.00	0.00	0.83	52.02	0.53	0.84
AUG 15	1	11.51	0.00	0.00	0.00	0.00	120.00	0.00	1.64
	2	10.83	1.67	0.00	0.00	0.83	59.17	0.83	0.00
	3	33.63	6.11	0.00	0.00	2.29	84.84	0.00	8.41
	AVERAGE	18.66	2.59	0.00	0.00	1.04	88.00	0.28	3.35
AUG 16	1	10.36	0.00	0.00	0.00	1.73	51.80	0.00	1.73
	2	9.36	2.55	0.00	0.00	0.00	23.83	2.55	2.55
	3	22.70	1.62	0.00	0.00	2.43	58.38	1.62	9.73
	AVERAGE	14.14	1.39	0.00	0.00	1.39	44.67	1.39	4.67

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 17	1	5.50	0.92	0.00	0.00	0.00	9.16	0.92	2.75
	2	0.95	0.95	0.00	0.00	0.00	1.90	0.00	0.00
	3	1.85	0.92	0.00	0.00	1.85	12.92	1.85	0.00
	AVERAGE	2.76	0.93	0.00	0.00	0.62	8.00	0.92	0.92
AUG 18	1	4.41	3.53	0.00	0.00	3.53	28.24	0.00	1.76
	2	0.00	0.00	0.00	0.00	0.00	0.00	1.89	1.89
	3	4.55	0.00	0.00	0.00	0.91	28.18	2.73	0.91
	AVERAGE	2.99	1.18	0.00	0.00	1.48	18.81	1.54	1.52
AUG 19	1	3.61	0.90	0.00	0.00	1.80	23.46	1.80	0.00
	2	0.94	0.00	0.00	0.00	0.00	3.78	0.00	0.00
	AVERAGE	2.28	0.45	0.00	0.00	0.90	13.62	0.90	0.00
AUG 20	1	2.75	0.00	0.00	0.00	0.92	21.07	2.75	0.92
	2	2.73	0.00	0.00	0.00	0.91	20.91	0.91	0.00
	3	0.94	0.00	0.00	0.00	0.00	1.89	2.83	0.00
	AVERAGE	2.14	0.00	0.00	0.00	0.61	14.62	2.16	0.31
AUG 21	1	6.13	0.00	0.00	0.00	0.00	28.91	1.75	3.50
	2	3.56	0.00	0.00	0.00	1.78	15.11	4.44	3.56
	3	2.77	0.00	0.00	0.00	0.00	5.54	2.77	1.85
	AVERAGE	4.15	0.00	0.00	0.00	0.59	16.52	2.99	2.97
AUG 22	1	7.16	0.00	0.00	0.00	0.90	21.49	0.00	0.90
	2	14.22	0.00	0.00	0.00	0.00	26.67	2.67	4.44
	3	0.94	0.00	0.00	0.00	0.00	7.50	2.81	0.00
	AVERAGE	7.44	0.00	0.00	0.00	0.30	18.55	1.83	1.78
AUG 23	1	5.29	0.88	0.00	0.00	0.88	21.18	3.53	3.53
	2	10.99	2.75	0.00	0.00	0.00	10.08	0.92	0.92
	AVERAGE	8.14	1.82	0.00	0.00	0.44	15.63	2.22	2.22
AUG 24	1	0.00	0.00	0.00	0.00	0.86	21.58	2.59	4.32
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.94
	AVERAGE	0.00	0.00	0.00	0.00	0.43	10.79	1.77	2.63
AUG 25	1	2.75	0.00	0.00	0.00	1.83	7.33	0.00	0.92
	2	0.00	0.00	0.00	0.00	0.00	1.90	0.00	0.00
	AVERAGE	1.37	0.00	0.00	0.00	0.92	4.62	0.00	0.46

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
AUG 26	1	6.41	0.00	0.00	0.00	3.66	20.15	0.92	1.83
	2	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.00
	AVERAGE	3.21	0.00	0.00	0.00	1.83	10.55	0.93	0.92
AUG 27	1	1.79	0.00	0.00	0.00	0.00	11.64	2.69	1.79
	2	0.00	0.00	0.00	0.00	0.00	5.67	0.00	0.00
	AVERAGE	0.90	0.00	0.00	0.00	0.00	8.66	1.34	0.90
AUG 28	1	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
	2	2.73	0.00	0.00	0.00	0.00	5.45	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	2.83	1.89	0.00
AVERAGE	0.91	0.00	0.00	0.00	0.00	3.07	0.63	0.00	
AUG 29	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
	2	2.69	0.00	0.00	0.00	0.00	3.58	6.27	1.79
	AVERAGE	1.34	0.00	0.00	0.00	0.00	1.79	3.13	1.36
AUG 30	1	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00
	2	5.45	0.00	0.00	0.00	0.00	3.64	2.73	0.91
	AVERAGE	2.73	0.00	0.00	0.00	0.00	1.82	1.83	0.45
AUG 31	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.92	2.75	0.92
AVERAGE	0.00	0.00	0.00	0.00	0.00	0.31	0.92	0.31	
SEPT 1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	2.69	0.90	0.00
AVERAGE	0.00	0.00	0.00	0.00	0.00	0.90	0.60	0.00	
SEPT 2	1	0.00	0.00	0.00	0.00	2.00	13.00	2.00	0.00
	2	2.50	0.00	0.00	0.00	12.50	26.67	0.00	5.00
	AVERAGE	1.25	0.00	0.00	0.00	7.25	19.83	1.00	2.50
SEPT 3	1	0.00	0.00	0.00	0.00	4.48	18.81	1.79	4.48
	AVERAGE	0.00	0.00	0.00	0.00	4.48	18.81	1.79	4.48

INDEX (CATCH PER HOUR)

DATE	SET #	LG. SOCKEYE	JK. SOCKEYE	LG. CHINOOK	JK. CHINOOK	COHO	PINK	CHUM	STHD
SEPT 4	1	0.00	0.00	0.00	0.00	10.21	14.47	1.70	6.81
	2	0.00	0.00	0.00	0.00	20.94	7.25	2.42	16.11
	AVERAGE	0.00	0.00	0.00	0.00	15.58	10.86	2.06	11.46
SEPT 5	1	0.00	0.00	0.00	0.00	8.98	0.82	1.63	11.43
	2	0.00	0.00	0.00	0.00	3.56	1.78	2.67	4.44
	3	0.92	0.00	0.00	0.00	3.69	3.69	0.92	3.69
	AVERAGE	0.31	0.00	0.00	0.00	5.41	2.10	1.74	6.52
SEPT 6	1	0.88	0.00	0.00	0.00	1.75	2.63	4.38	7.01
	2	0.00	0.00	0.00	0.00	7.06	0.88	1.76	9.71
	3	0.00	0.00	0.00	0.00	1.82	0.00	1.82	0.91
	AVERAGE	0.29	0.00	0.00	0.00	3.54	1.17	2.65	5.87

APPENDIX 7. Daily index of Pink salmon escapement from Skeena River test fishery, 1987.

DATE	CATCH PER HOUR		AVG HI	CATCH PER HOUR		AVG LOW	SUM DLY	AVG DLY	CUM DLY
	LH	HH	CATCH/HR	LL	HL	CATCH/HR	CATCH/HR	CATCH/HR	CATCH/HR
JULY 7	0.89	0.00	0.45	0.00		0.00	0.45	0.23	0.23
8	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
9	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
10	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.23
11	0.00		0.00	0.84		0.84	0.84	0.42	0.65
12	0.88		0.88	2.54		2.54	3.42	1.71	2.36
13	0.00		0.00	0.00		0.00	0.00	0.00	2.36
14	1.86	0.00	0.93	2.59		2.59	3.52	1.76	4.12
15		0.00	0.00	3.90		3.90	3.90	1.95	6.07
16	0.00	0.87	0.44	8.28		8.28	8.72	4.36	10.43
17	6.96	4.38	5.67	32.80		32.80	38.47	19.24	29.67
18	19.30	4.59	11.95		39.76	39.76	51.71	25.86	55.53
19	6.67	9.50	8.09		61.73	61.73	69.82	34.91	90.44
20	6.41		6.41		33.60	33.60	40.01	20.01	110.45
21	3.38		3.38	23.50	23.14	23.32	26.70	13.35	123.80
22	5.67		5.67	11.91	56.84	34.38	40.05	20.03	143.83
23	30.66		30.66	38.37	30.64	34.51	65.17	32.59	176.42
24	15.57		15.57	43.02	32.65	37.84	53.41	26.71	203.13
25	38.30		38.30	50.65	61.64	56.15	94.45	47.23	250.36
26	39.72		39.72	40.54		40.54	80.26	40.13	290.49
27	21.02		21.02	62.34		62.34	83.36	41.68	332.17
28	76.20		76.20	39.11		39.11	115.31	57.66	389.83
29	46.34	71.23	58.79	73.42		73.42	132.21	66.11	455.94
30	31.79		31.79	67.64		67.64	99.43	49.72	505.66
31	68.34	62.64	65.49	190.33		190.33	255.82	127.91	633.57
AUG 1	41.35	107.84	74.60	144.14		144.14	218.74	109.37	742.94
2	66.23	74.43	70.33		99.77	99.77	170.10	85.05	827.99
3	8.12	74.40	41.26		77.84	77.84	119.10	59.55	887.54
4	0.00	26.17	13.09		80.78	80.78	93.87	46.94	934.48
5	3.84		3.84	62.47	72.17	67.32	71.16	35.58	970.06
6	44.67		44.67	78.95		78.95	123.62	61.81	1031.87
7	19.27		19.27	81.00	103.18	92.09	111.36	55.68	1087.55
8	47.67		47.67	24.17	166.00	95.09	142.76	71.38	1158.93
9	8.12		8.12	13.43		13.43	21.55	10.78	1169.71
10	24.19		24.19	5.45		5.45	29.64	14.82	1184.53
11	9.16		9.16	25.97		25.97	35.13	17.57	1202.10
12	3.66	1.88	2.77	16.76		16.76	19.53	9.77	1211.87
13	11.73		11.73	5.22		5.22	16.95	8.48	1220.35
14	17.67	83.56	50.62	54.83		54.83	105.45	52.73	1273.08
15	59.17	120.00	89.59		84.84	84.84	174.43	87.22	1360.30
16	23.83	51.80	37.82		58.38	58.38	96.20	48.10	1408.40
17	1.90	9.16	5.53		12.92	12.92	18.45	9.23	1417.63
18	0.00		0.00	28.24	28.18	28.21	28.21	14.11	1431.74
19	3.78		3.78	23.46		23.46	27.24	13.62	1445.36
20	1.89		1.89	20.91	21.07	20.99	22.88	11.44	1456.80

DATE	CATCH PER HOUR		AVG HI	CATCH PER HOUR		AVG LOW	SUM DLY	AVG DLY	CUM DLY
	LH	HH	CATCH/HR	LL	HL	CATCH/HR	CATCH/HR	CATCH/HR	CATCH/HR
AUG. 21	5.54		5.54	15.11	28.91	22.01	27.55	13.78	1470.58
22	7.50		7.50	26.67	21.49	24.08	31.58	15.79	1486.37
23	10.08		10.08	21.18		21.18	31.26	15.63	1502.00
24	0.00		0.00	21.58		21.58	21.58	10.79	1512.79
25	1.90		1.90	7.33		7.33	9.23	4.62	1517.41
26		0.94	0.94	20.15		20.15	21.09	10.55	1527.96
27		5.67	5.67	11.64		11.64	17.31	8.66	1536.62
28	0.93	2.83	1.88	5.45		5.45	7.33	3.67	1540.29
29	0.00		0.00		3.58	3.58	3.58	1.79	1542.08
30	0.00		0.00		3.64	3.64	3.64	1.82	1543.90
31	0.00	0.00	0.00		0.92	0.92	0.92	0.46	1544.36
SEPT 1	0.00	0.00	0.00		2.69	2.69	2.69	1.35	1545.71
2	13.00		13.00		26.67	26.67	39.67	19.84	1565.55
3	18.81		18.81				18.81	9.41	1574.96
4				7.25	14.47	10.86	10.86	5.43	1580.39
5	3.69		3.69	1.78	0.82	1.30	4.99	2.50	1582.89
6	0.00		0.00	0.88	2.63	1.76	1.76	0.88	1583.77

APPENDIX 8. Sockeye and Pink salmon escapement estimates from Skeena River gillnet test fishery, 1987.

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	WEEKLY		CUM. ESC.
					EXPECTED ESC.	DESIRED ESC.	
JUNE 8							
9	0.00	0	0	0			
10	0.31	153	153	153			
11	1.09	539	692	692			
12	0.00	0	692	692			
13	0.43	213	905	905			
14	1.88	930	1835	1835	7800	8244	8244
15	0.00	0	0	1835			
16	1.80	1006	1006	2841			
17	4.10	2291	3297	5132			
18	3.08	1721	5018	6853			
19	3.32	1855	6873	8708			
20	2.36	1319	8192	10027			
21	3.27	1827	10019	11854	24700	26106	34350
22	2.42	1481	1481	13335			
23	3.69	2259	3740	15594			
24	1.09	667	4407	16261			
25	6.35	3887	8294	20148			
26	8.70	5325	13619	25473			
27	10.72	6562	20181	32035			
28	13.18	8067	28248	40102	37700	39846	74196
29	14.51	9733	9733	49835			
30	5.70	3824	13557	53659			
JULY 1	1.85	1241	14798	54900			
2	2.50	1677	16475	56577			
3	3.47	2328	18803	58905			
4	6.76	4535	23338	63440			
5	7.90	5299	28637	68739	102700	108546	182742
6	10.04	7807	7807	76546			
7	10.99	8546	16353	85092			
8	13.76	10700	27053	95792			
9	13.50	10498	37551	106290			
10	12.60	9798	47349	116088			
11	25.94	20171	67520	136259			
12	20.45	15902	83422	152161	126750	133965	316708
13	21.89	17490	17490	169651			
14	11.72	9364	26854	179015			
15	26.18	20918	47772	199933			
16	24.05	19216	66988	219149			
17	51.35	41029	108017	260178			
18	98.05	78342	186359	338520			
19	82.54	65949	252308	404469	156325	165224	481932

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN	DAILY	WEEKLY	CUMM.	WEEKLY		CUM.
	CATCH PER HR				ESC.	ESC.	
JULY 20	25.22	20284	20284	424753			
21	19.21	15451	35735	440204			
22	18.42	14815	50550	455019			
23	14.24	11453	62003	466472			
24	32.80	26381	88384	492853			
25	33.44	26896	115280	519749			
26	35.60	28633	143913	548382	173225	183086	665018
27	33.50	21577	21577	569959			
28	21.61	13919	35496	583878			
29	39.76	25609	61105	609487			
30	49.53	31902	93007	641389			
31	49.45	31851	124858	673240			
AUG 1	25.55	16457	141315	689697			
2	36.86	23742	165057	713439	162825	172094	837112
3	8.04	5823	5823	719262			
4	6.64	4809	10632	724071			
5	4.63	3353	13977	727416			
6	11.48	8314	22291	735730			
7	15.32	11095	33393	746832			
8	18.51	13405	46798	760237			
9	8.52	6170	52968	766407	110175	116447	953559
10	3.64	2170	2170	768577			
11	4.48	2671	4841	771248			
12	2.65	1580	6421	772828			
13	1.77	1055	7476	773883			
14	10.63	6337	13813	780220			
15	18.66	11123	24936	791343			
16	14.14	8429	33365	799772	30550	32289	985848
17	2.76	1866	1866	801638			
18	2.99	2022	3888	803660			
19	2.28	1542	5430	805202			
20	2.14	1447	6877	806649			
21	4.15	2806	9683	809455			
22	7.44	5030	14713	814485			
23	8.14	5503	20216	819988	9100	9618	995466
24	0.00	0	0	819988			
25	1.37	648	648	820636			
26	3.21	1519	2167	822155			
27	0.90	426	2593	822581			
28	0.91	431	3024	823012			
29	1.34	634	3658	823646			
30	2.73	1292	4950	824938	4290	4534	1000000

Skeena River gillnet test fishery Sockeye escapement estimate, 1987.

DATE	MEAN	DAILY	WEEKLY	CUMM.	WEEKLY		CUM.
	CATCH				EXPECTED	DESIRED	
	PER HR	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.
31	0.00	0	0	824938			
SEPT 1	0.00	0	0	824938			
2	1.25	592	592	825530			
3	0.00	0	592	825530			
4	0.00	0	592	825530			
5	0.31	147	739	825677			
6	0.29	137	876	825814			

Skeena River gillnet test fishery Pink escapement estimate, 1987

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	EXPECTED ESC.	DESIRED ESC.	CUMM. ESC.
JULY 6							
7	0.23	345	345	345			
8	0	0	345	345			
9	0	0	345	345			
10	0	0	345	345			
11	0.42	630	975	975			
12	1.71	2565	3540	3540	4973	3481	3481
13	0	0	0	3540			
14	1.76	2640	2640	6180			
15	1.95	2925	5565	9105			
16	4.36	6540	12105	15645			
17	19.24	28860	40965	44505			
18	25.86	38790	79755	83295			
19	34.91	52365	132120	135660	39270	27485	30966
20	20.01	30015	30015	165675			
21	13.35	20025	50040	185700			
22	20.03	30045	80085	215745			
23	32.59	48885	128970	264630			
24	26.71	40065	169035	304695			
25	47.23	70845	239880	375540			
26	40.13	60195	300075	435735	140250	98162	129128
27	41.68	62520	62520	498255			
28	57.66	86490	149010	584745			
29	66.11	99165	248175	683910			
30	49.72	74580	322755	758490			
31	127.91	191865	514620	950355			
AUG 1	109.37	164055	678675	1114410			
2	85.05	127575	806250	1241985	359678	251740	380868
3	59.55	89325	89325	1331310			
4	46.94	70410	159735	1401720			
5	35.58	53370	213105	1455090			
6	61.81	92715	305820	1547805			
7	55.68	83520	389340	1631325			
8	71.38	107070	496410	1738395			
9	10.78	16170	512580	1754565	439238	307425	688293
10	14.82	22230	22230	1776795			
11	17.57	26355	48585	1803150			
12	9.77	14655	63240	1817805			
13	8.48	12720	75960	1830525			
14	52.73	79095	155055	1909620			
15	87.22	130830	285885	2040450			
16	48.10	72150	358035	2112600	259335	181510	869803

Skeena River gillnet test fishery Pink escapement estimate, 1987

DATE	MEAN CATCH PER HR	DAILY ESC.	WEEKLY ESC.	CUMM. ESC.	EXPECTED ESC.	DESIRED ESC.	CUMM. ESC.
AUG. 17	9.23	13845	13845	2126445			
18	14.11	21165	35010	2147610			
19	13.62	20430	55440	2168040			
20	11.44	17160	72600	2185200			
21	13.78	20670	93270	2205870			
22	15.79	23685	116955	2229555			
23	15.63	23445	140400	2253000	129668	90755	960559
24	10.79	16185	16185	2269185			
25	4.62	6930	23115	2276115			
26	10.55	15825	38940	2291940			
27	8.66	12990	51930	2304930			
28	3.67	5505	57435	2310435			
29	1.79	2685	60120	2313120			
30	1.82	2730	62850	2315850	56355	39443	1000002
31	0.46	690	690	2316540			
SEPT 1	1.35	2025	2715	2318565			
2	19.84	29760	32475	2348325			
3	9.41	14115	46590	2362440			
4	5.43	8145	54735	2370585			
5	2.50	3750	58485	2374335			
6	0.88	1320	59805	2375655			

APPENDIX 9. Age, length and sex information for Sockeye salmon sampled from the Skeena River gillnet test fishery, 1987.

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 11	1	535	650	F	5
11	1	525	635	M	5
11	1	510	620	F	5
JUNE 13	1	545	670	M	5
JUNE 14	1	525	645	F	5
14	1	500	605	F	5
14	1	495	595	F	5
JUNE 15	2	510	630	F	5
15	2	500	610	F	5
JUNE 16	2	510	620	F	5
16	2	535	645	M	7
JUNE 17	2	455	540	M	5
17	2	485	570	F	5
17	2	510	615	F	5
17	2	515	605	F	5
17	2	520	625	F	5
17	2	470	560	F	5
17	2	510	610	F	5
17	2	525	610	F	5
17	2	505	600	M	5
17	2	525	660	M	5
17	2	540	680	M	5
JUNE 18	2	490	600	M	5
18	2	520	620	F	5
18	2	520	620	F	5
18	2	490	600	F	5
18	2	525	655	M	5
JUNE 19	2	515	630	M	5
19	2	520	640	M	5
19	2	500	590	F	5
JUNE 20	2	500	615	M	5
20	2	520	630	F	5
20	3	490	600	F	5
20	3	565	680	F	5
JUNE 21	3	510	610	F	5
21	3	550	685	M	5
21	3	405	500	M	4
21	3	505	615	M	5
21	3	510	615	M	5
21	3	465	565	F	4
21	3	510	630	M	5
21	4	510	605	F	5
JUNE 22	4	540	660	M	5
22	4	475	575	M	4
22	4	500	610	M	5
22	4	510	630	F	5
22	4	530	655	F	5
22	4	530	655	M	5
22	4	520	630	F	5
22	4	525	640	F	5
JUNE 23	4	480	600	F	5
23	4	515	630	F	5
23	4	500	610	F	5

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 23	4	545	675	M	5 ₂
JUNE 24	4	475	570	F	5 ₂
24	4	460	555	F	4 ₂
24	4	510	615	M	5 ₂
24	4	440	530	F	4 ₂
24	4	510	630	M	R ₂
JUNE 25	4	480	580	F	5 ₂
25	4	410	500	M	4 ₂
25	4	520	630	M	5 ₂
25	4	515	620	F	5 ₂
25	4	505	610	F	4 ₂
25	4	490	600	F	5 ₂
25	4	480	575	F	4 ₂
25	5	410	490	M	R ₂
25	5	540	670	M	5 ₂
25	5	480	570	F	4 ₂
25	5	480	575	M	4 ₂
25	5	530	640	M	5 ₃
25	5	530	640	M	5 ₂
25	5	520	640	M	5 ₂
JUNE 26	5	490	605	F	5 ₂
26	5	510	615	F	5 ₂
26	5	540	670	M	5 ₂
26	5	445	540	M	4 ₂
26	5	440	540	F	4 ₂
26	5	540	660	M	5 ₂
26	5	490	590	F	R ₂
26	5	505	615	F	5 ₂
26	5	480	590	F	5 ₂
26	5	520	625	M	5 ₂
26	5	460	560	F	R ₂
26	5	485	595	F	R
26	5	475	590	F	5 ₂
26	5	500	625	M	5 ₂
26	5	520	635	M	5 ₂
JUNE 27	5	455	560	F	4 ₂
27	5	520	645	M	5 ₂
27	5	545	690	M	5 ₂
27	6	505	630	M	R ₂
27	6	500	625	M	5 ₂
27	6	505	610	F	5 ₂
27	6	510	620	F	5 ₂
27	6	535	670	M	5 ₂
27	6	520	630	F	R ₂
27	6	495	615	F	R
27	6	520	635	M	5 ₂
27	6	540	680	M	5 ₂
27	6	410	500	M	4 ₂
27	6	510	620	F	5 ₂
27	6	515	650	F	5 ₂
27	6	530	655	M	5 ₂
27	6	520	635	F	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 27	6	440	530	F	4 ₂
27	6	495	620	F	5 ₂
JUNE 28	6	540	660	M	5 ₂
28	6	450	555	M	4 ₂
28	6	510	625	F	5 ₂
28	6	505	620	M	5 ₂
28	6	515	635	F	5 ₂
28	6	450	555	M	5 ₂
28	6	410	485	M	4 ₂
28	6	500	660	M	5 ₂
28	6	485	590	F	5 ₂
28	7	515	620	F	5 ₂
28	7	520	630	M	5 ₂
28	7	500	610	F	5 ₂
28	7	530	655	M	5 ₂
28	7	500	620	F	R ₂
28	7	555	675	F	5 ₂
28	7	470	560	M	5 ₃
28	7	505	630	M	5 ₂
28	7	540	660	M	5 ₂
28	7	540	655	M	5 ₂
28	7	450	540	F	4 ₂
28	7	480	600	M	4 ₂
28	7	450	505	M	4 ₂
28	7	415	505	M	4 ₂
28	7	470	580	F	5 ₂
28	7	495	605	M	5 ₂
28	7	485	600	F	5 ₂
28	7	425	550	M	4 ₂
28	7	510	650	F	5 ₂
JUNE 28	7	530	660	M	5 ₂
29	8	540	660	M	5 ₂
29	8	530	660	M	5 ₂
29	8	505	620	M	5 ₂
29	8	490	605	F	5 ₃
29	8	375	460	M	4 ₂
29	8	455	555	M	4 ₂
29	8	405	500	M	4 ₂
29	8	420	510	M	4 ₂
29	8	435	520	F	4 ₂
29	8	545	670	M	5 ₂
29	8	520	630	F	5 ₂
29	8	535	645	M	5 ₂
29	8	470	585	M	5 ₂
29	8	495	600	F	5 ₂
29	8	530	670	M	5 ₂
29	8	530	650	F	5 ₂
29	8	520	620	F	5 ₂
29	8	520	630	F	5 ₂
29	8	520	630	M	5 ₂
29	8	510	630	M	R ₂
29	8	525	640	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JUNE 29	8	545	665	M	5 ²
29	8	550	675	M	5 ²
29	8	550	665	M	5 ²
29	8	520	620	F	5 ²
29	9	500	590	F	5 ²
JUNE 30	9	505	630	M	5 ²
30	9	530	650	M	5 ²
30	9	460	575	F	5 ²
30	9	510	630	F	5 ²
30	9	430	530	M	R ²
30	9	445	540	M	4 ²
30	9	450	540	F	5 ²
30	9	430	520	M	4 ²
30	9	325	385	M	3 ²
30	9	430	510	M	R ²
30	9	400	485	M	4 ²
30	9	520	630	M	5 ²
30	9	495	600	F	5 ²
30	9	435	520	F	4 ²
30	9	470	560	F	R ²
30	9	410	500	M	5 ³
30	9	460	560	M	4 ²
30	9	420	510	M	4 ²
30	9	460	550	F	4 ²
JULY 1	9	460	560	M	W ²
1	9	530	645	M	5 ²
1	9	405	485	M	4 ²
1	9	485	595	M	4 ²
JULY 2	9	540	660	M	5 ²
2	10	505	615	M	4 ²
2	10	530	640	M	5 ²
2	10	530	650	M	5 ²
JULY 3	10	520	635	M	5 ²
3	10	430	520	M	R ²
3	10	447	554	M	4 ²
3	10	427	514	M	4 ²
3	10	506	615	F	5 ²
3	10	429	519	M	4 ²
3	10	536	646	M	5 ²
3	10	540	648	M	4 ²
3	10	407	495	M	4 ²
JULY 4	10	410	480	F	4 ²
4	10	420	510	M	4 ²
4	10	495	585	M	5 ²
4	10	420	500	F	5 ²
4	10	450	500	F	4 ³
4	10	440	530	F	4 ²
4	10	530	640	F	5 ²
4	10	510	620	F	5 ²
4	10	510	635	M	R ²
4	10	460	560	F	5 ²
4	10	495	600	F	5 ²

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 4	10	520	645	M	5 ₂
4	10	530	655	M	5 ₂
4	11	515	630	M	5 ₂
4	11	515	620	M	5 ₂
4	11	515	620	M	5 ₂
4	11	385	470	M	4 ₂
JULY 5	11	430	520	M	4 ₂
5	11	430	530	F	4 ₂
5	11	510	610	M	5 ₂
5	11	540	650	F	5 ₂
5	11	420	505	M	4 ₂
5	11	440	530	F	4 ₂
5	11	530	630	F	4 ₂
5	11	545	650	M	5 ₂
5	11	500	610	F	5 ₂
5	11	320	385	M	3 ₂
5	11	480	585	F	5 ₂
5	11	530	650	M	5 ₂
5	11	500	610	M	R ₂
5	11	460	570	M	4 ₂
5	11	485	595	M	5 ₂
5	11	510	610	F	5 ₂
5	11	540	650	F	5 ₂
5	11	520	640	F	5 ₂
5	11	540	650	F	5 ₂
5	11	440	540	M	5 ₂
5	11	505	610	F	5 ₂
5	12	510	615	F	5 ₂
5	12	540	670	M	5 ₂
5	12	530	650	M	5 ₂
5	12	500	580	M	5 ₂
JULY 6	13	540	650	M	5 ₂
6	13	505	615	F	5 ₂
6	13	520	635	F	5 ₂
6	13	420	520	M	R ₂
6	13	505	625	M	4 ₂
6	13	440	535	M	4 ₂
6	13	405	500	M	4 ₂
6	13	465	565	F	4 ₂
6	13	380	465	M	4 ₂
6	13	465	560	F	5 ₂
6	13	430	510	M	4 ₂
6	13	500	610	F	5 ₂
6	13	320	385	M	3 ₂
6	13	500	615	F	5 ₂
6	13	420	505	M	4 ₂
6	13	385	470	M	R ₂
6	13	495	610	F	5 ₂
6	13	400	480	M	4 ₂
6	13	500	630	M	5 ₂
6	13	415	500	M	4 ₂
6	13	450	540	M	5 ₃

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 6	13	470	570	F	4 ₂
6	13	525	635	F	5 ₂
6	13	405	500	M	4 ₂
6	13	440	510	M	4 ₂
6	14	530	615	M	5 ₂
6	14	515	615	F	5 ₂
6	14	425	525	M	4 ₂
6	14	410	495	M	4 ₂
6	14	495	595	F	R ₂
JULY 7	14	440	540	M	4 ₂
7	14	440	525	M	4 ₂
7	14	400	480	M	4 ₂
7	14	540	655	M	5 ₂
7	14	505	610	F	5 ₂
7	14	455	550	F	5 ₃
7	14	425	520	M	4 ₂
7	14	480	570	F	4 ₂
7	14	305	360	M	3 ₂
7	14	510	610	F	5 ₂
7	14	400	490	M	4 ₂
7	14	435	530	M	4 ₂
7	14	510	615	F	R ₂
7	14	440	520	M	4 ₂
7	14	450	555	M	4 ₂
7	14	440	530	M	4 ₂
7	14	415	510	F	4 ₂
7	14	415	510	M	4 ₂
7	14	420	520	M	R ₂
7	14	510	610	M	5 ₂
7	15	455	550	F	4 ₂
7	15	445	540	M	4 ₂
7	15	460	555	F	5 ₃
7	15	405	500	M	4 ₂
7	15	460	550	F	4 ₂
7	15	500	605	M	6 ₂
7	15	535	645	F	5 ₃
7	15	515	640	F	5 ₂
7	15	565	675	M	5 ₂
7	15	475	570	F	4 ₂
JULY 8	15	325	395	M	R ₂
8	15	430	510	M	4 ₂
8	15	430	525	M	4 ₂
8	15	425	520	M	4 ₂
8	15	400	480	M	4 ₂
8	15	380	445	M	4 ₂
8	15	465	550	F	4 ₂
8	15	400	475	M	4 ₂
8	15	410	500	M	4 ₂
8	15	420	520	M	4 ₂
8	15	520	630	F	5 ₂
8	15	420	510	M	4 ₂
8	15	475	585	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
JULY	8	15	460	540	F	4 ₂
	8	15	500	595	F	R ₂
	8	16	525	640	F	5 ₂
	8	16	395	470	M	4 ₂
	8	16	535	640	F	5 ₂
	8	16	560	685	M	5 ₂
	8	16	430	510	M	4 ₂
	8	16	410	495	M	4 ₂
	8	16	530	610	F	5 ₂
	8	16	525	630	M	5 ₂
	8	16	525	610	F	5 ₂
	8	16	460	540	F	5 ₂
	8	16	400	480	M	4 ₃
	8	16	520	615	F	4 ₂
	8	16	520	640	M	5 ₂
	8	16	420	500	M	4 ₂
	8	16	430	525	M	4 ₂
JULY	9	16	555	670	M	5 ₂
	9	16	460	550	F	R ₂
	9	16	555	675	M	R
	9	16	405	495	M	4 ₂
	9	16	470	570	M	4 ₂
	9	16	560	670	M	5 ₂
	9	16	470	570	F	R ₂
	9	16	465	575	M	4 ₂
	9	16	430	510	M	4 ₂
	9	16	405	490	M	4 ₂
	9	17	425	505	M	4 ₂
	9	17	455	540	F	R ₂
	9	17	465	570	M	4 ₂
	9	17	470	555	M	4 ₂
	9	17	530	645	M	5 ₂
	9	17	440	530	M	4 ₂
	9	17	395	460	M	4 ₂
	9	17	425	520	F	4 ₂
	9	17	425	515	M	4 ₂
	9	17	385	460	M	4 ₂
	9	17	465	570	M	R ₂
	9	17	520	650	M	5 ₂
	9	17	360	465	M	4 ₂
	9	17	400	495	M	4 ₂
	9	17	400	490	F	4 ₂
	9	17	400	495	M	4 ₂
	9	17	390	490	M	4 ₂
	9	17	430	530	M	4 ₂
	9	17	385	460	F	4 ₂
	9	17	420	535	M	4 ₂
JULY	10	17	560	680	M	5 ₂
	10	17	525	635	M	5 ₂
	10	17	460	530	F	4 ₂
	10	17	540	660	M	5 ₂
	10	17	540	655	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK LENGTH	SEX	AGE
JULY 10	18	530	645		F	5 ₂
10	18	500	620		M	5 ₂
10	18	515	620		F	5 ₂
10	18	405	495		M	R ₂
10	18	545	655		F	5 ₂
10	18	560	680		M	5 ₂
10	18	500	605		F	5 ₂
10	18	420	515		M	4 ₂
10	18	500	605		F	5 ₂
10	18	515	620		F	5 ₂
10	18	530	660		M	5 ₂
10	18	435	510		M	4 ₂
10	18	545	655		F	5 ₂
10	18	510	625		M	5 ₂
10	18	450	545		F	4 ₂
10	18	530	645		M	5 ₂
10	18	560	695		M	5 ₂
10	18	480	590		F	5 ₂
10	18	415	500		M	4 ₂
10	18	455	555		F	4 ₂
10	18	450	545		F	4 ₂
10	18	500	610		F	5 ₂
10	18	520	630		F	5 ₂
10	18	520	620		F	R ₂
JULY 10	18	450	545		M	4 ₂
JULY 11	19	420	525		M	4 ₂
11	19	405	490		M	4 ₂
11	19	510	645		M	R ₂
11	19	460	550		M	4 ₂
11	19	515	610		F	5 ₂
11	19	510	605		F	5 ₂
11	19	420	530		M	4 ₂
11	19	510	640		M	5 ₂
11	19	550	670		M	5 ₂
11	19	520	640		F	5 ₂
11	19	500	630		M	5 ₂
11	19	515	640		M	5 ₃
11	19	460	580		M	5 ₂
11	19	420	520		M	4 ₂
11	19	395	490		M	4 ₂
11	19	485	590		M	4 ₂
11	19	410	500		F	5 ₂
11	19	520	620		F	4 ₂
11	19	505	620		M	5 ₃
11	19	410	510		M	R ₃
11	19	370	450		M	5 ₃
11	19	325	385		M	4 ₃
11	19	330	380		M	3 ₂
11	19	390	465		M	3 ₂
11	19	520	630		M	4 ₂
11	20	415	500		F	5 ₂
11	20	430	525		M	R ₂
11	20	430	525		M	4 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
JULY	11	20	400	495	F	R
	11	20	430	500	F	R
	11	20	500	610	M	5 ²
JULY	12	20	470	570	M	5 ²
	12	20	510	620	F	5 ³
	12	20	450	540	F	4 ²
	12	20	500	620	M	6 ²
	12	20	435	520	M	4 ³
	12	20	450	530	F	4 ²
	12	20	480	580	F	4 ²
	12	20	510	630	F	R ²
	12	20	535	660	M	5 ²
	12	20	480	590	F	5 ²
	12	20	550	680	M	5 ²
	12	20	425	510	M	4 ²
	12	20	470	570	M	4 ²
	12	20	510	610	F	5 ²
	12	20	510	610	F	5 ²
	12	20	525	630	F	5 ²
	12	20	450	530	F	4 ²
	12	20	555	680	M	R ²
	12	20	550	650	F	5 ²
	12	20	440	540	M	4 ²
	12	21	420	510	M	4 ²
	12	21	440	550	F	4 ²
	12	21	475	570	M	4 ²
	12	21	395	480	M	4 ²
	12	21	400	510	M	4 ²
	12	21	410	500	M	4 ²
	12	21	555	670	M	5 ²
	12	21	430	515	M	4 ²
	12	21	400	500	M	4 ²
	12	21	540	645	F	5 ²
JULY	13	22	520	630	M	5 ²
	13	22	485	575	F	4 ²
	13	22	520	595	F	5 ²
	13	22	525	625	F	5 ²
	13	22	400	490	M	4 ²
	13	22	425	510	F	4 ²
	13	22	455	560	F	4 ²
	13	22	420	520	F	4 ²
	13	22	440	540	M	5 ³
	13	22	400	480	M	4 ²
	13	22	300	365	M	3 ²
	13	22	325	390	M	3 ²
	13	22	455	550	F	4 ²
	13	22	420	505	M	4 ²
	13	22	550	660	F	5 ²
	13	22	435	530	M	4 ²
	13	22	405	505	M	4 ²
	13	22	490	585	F	5 ²
	13	22	400	505	M	4 ²

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
JULY	13	22	520	640	F	5 ₂
	13	22	485	580	M	4 ₂
	13	22	410	500	M	4 ₂
	13	22	395	480	M	4 ₂
	13	22	510	620	F	5 ₂
	13	22	420	530	M	4 ₂
	13	23	410	500	M	4 ₂
	13	23	400	495	M	4 ₂
	13	23	440	525	M	4 ₂
	13	23	405	500	M	4 ₂
	13	23	420	520	M	4 ₂
JULY	14	23	500	605	M	5 ₂
	14	23	450	545	F	4 ₂
	14	23	540	650	F	5 ₂
	14	23	510	620	F	5 ₂
	14	23	525	630	F	5 ₂
	14	23	450	550	M	4 ₂
	14	23	400	480	M	4 ₂
	14	23	500	600	M	5 ₂
	14	23	405	505	M	4 ₂
	14	23	385	470	M	4 ₂
	14	23	430	520	M	4 ₂
	14	23	445	545	M	4 ₂
	14	23	420	515	M	4 ₂
	14	23	420	530	M	4 ₂
	14	23	445	560	M	4 ₂
	14	23	520	655	M	5 ₂
	14	23	505	630	F	5 ₂
	14	23	505	610	F	R ²
	14	23	415	505	M	R
	14	23	400	485	M	4 ₂
	14	24	420	490	M	4 ₂
	14	24	520	620	M	5 ₂
	14	24	450	540	F	R ²
	14	24	385	470	M	4 ₂
	14	24	400	485	M	4 ₂
	14	24	420	520	F	4 ₂
	14	24	485	580	F	5 ₂
	14	24	390	475	M	4 ₂
	14	24	530	655	M	5 ₂
	14	24	520	640	F	5 ₂
JULY	15	24	395	475	M	4 ₂
	15	24	545	660	F	5 ₂
	15	24	520	635	M	5 ₂
	15	24	300	355	M	3 ₂
	15	24	415	495	F	4 ₂
	15	24	370	455	M	4 ₂
	15	24	400	500	M	4 ₂
	15	24	400	480	M	R ²
	15	24	465	555	F	4 ₂
	15	24	370	460	M	4 ₂
	15	24	505	650	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
JULY	15	24	300	365	F	3
	15	24	520	640	F	5 ₂
	15	24	485	605	F	5 ₂
	15	24	415	510	F	4 ₂
	15	25	380	450	M	4 ₂
	15	25	440	540	M	R ₂
	15	25	410	490	M	4 ₂
	15	25	520	630	F	5 ₂
	15	25	570	705	M	6 ₃
	15	25	460	570	M	4 ₂
	15	25	380	465	M	4 ₂
	15	25	430	520	F	4 ₂
	15	25	505	625	M	5 ₂
	15	25	435	535	M	4 ₂
	15	25	545	670	M	5 ₂
	15	25	460	560	F	5 ₃
	15	25	485	605	M	5 ₃
	15	25	420	505	M	4 ₂
	15	25	310	370	M	3 ₂
JULY	16	25	515	630	M	5 ₂
	16	25	480	580	F	4 ₂
	16	25	430	520	M	4 ₂
	16	25	460	540	F	R ₂
	16	25	430	520	F	4 ₂
	16	25	400	475	M	4 ₂
	16	25	430	520	M	4 ₂
	16	25	445	540	M	4 ₂
	16	25	385	485	M	4 ₂
	16	25	505	600	F	5 ₂
	16	26	510	625	M	5 ₂
	16	26	370	435	M	4 ₂
	16	26	390	490	M	4 ₂
	16	26	420	510	M	4 ₂
	16	26	395	485	M	4 ₂
	16	26	435	540	M	4 ₂
	16	26	380	460	M	4 ₂
	16	26	380	465	M	4 ₂
	16	26	415	505	M	4 ₂
	16	26	360	440	M	4 ₂
	16	26	425	500	M	4 ₂
	16	26	455	560	F	4 ₂
	16	26	395	470	M	5 ₂
	16	26	320	385	M	4 ₂
	16	26	400	485	M	4 ₂
	16	26	420	510	M	4 ₂
	16	26	520	635	F	5 ₂
	16	26	410	500	F	4 ₂
	16	26	410	505	M	4 ₂
	16	26	390	485	M	4 ₂
JULY	17	26	405	515	M	R ₂
	17	26	490	605	M	R
	17	26	400	480	M	4 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK	SEX	AGE
JULY	17	26	440	530	F	4
	17	26	465	600	M	W ²
	17	27	520	625	F	5
	17	27	415	505	M	4
	17	27	435	525	F	4
	17	27	545	640	M	5
	17	27	415	510	M	4
	17	27	400	475	M	4
	17	27	430	525	M	4
	17	27	535	655	M	5
	17	27	510	630	M	5
	17	27	560	695	M	5
	17	27	500	600	F	5
	17	27	440	525	F	4
	17	27	495	620	M	W ²
	17	27	440	525	F	4
	17	27	455	550	M	4
	17	27	520	620	F	5
	17	27	565	675	F	5
	17	27	525	635	F	R ²
	17	27	540	645	M	R
	17	27	525	650	M	R
	17	27	440	530	M	4
	17	27	505	600	F	5
	17	27	415	505	M	4
	17	27	475	570	F	4
	17	27	415	510	M	4
JULY	18	28	500	635	M	5
	18	28	535	645	M	5
	18	28	555	685	M	R ²
	18	28	535	655	F	5
	18	28	535	665	M	5
	18	28	315	390	M	3
	18	28	290	355	M	3
	18	28	545	670	M	5
	18	28	510	615	F	5
	18	28	545	670	F	5
	18	28	530	660	M	5
	18	28	485	580	F	5
	18	28	550	650	F	R ²
	18	28	440	535	F	4
	18	28	465	560	F	4
	18	28	510	625	F	5
	18	28	535	655	M	5
	18	28	525	630	F	5
	18	28	395	480	M	4
	18	28	510	625	M	R ²
	18	28	530	640	M	5
	18	28	420	500	F	4
	18	28	440	550	F	4
	18	28	540	650	M	5
	18	28	540	660	F	5

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 18	29	530	645	M	R
18	29	520	630	F	5 ₂
18	29	415	500	M	4 ₂
18	29	535	660	M	5 ₂
18	29	410	505	M	4 ₂
JULY 19	29	525	640	F	W ₂
19	29	520	640	M	5 ₂
19	29	415	505	M	R ₂
19	29	520	655	M	5 ₂
19	29	540	660	M	5 ₂
19	29	435	525	M	4 ₂
19	29	530	635	F	5 ₂
19	29	530	660	M	R ₂
19	29	540	670	M	5 ₂
19	29	495	605	M	R ₂
19	29	435	525	F	4 ₂
19	29	505	620	M	5 ₂
19	29	435	520	F	4 ₂
19	29	415	505	M	4 ₂
19	29	455	555	F	4 ₂
19	29	540	650	F	5 ₂
19	29	495	595	F	5 ₂
19	29	375	465	M	R ₂
19	29	535	660	M	5 ₂
19	29	470	590	M	5 ₂
19	30	450	535	F	4 ₂
19	30	515	610	F	5 ₂
19	30	505	615	F	5 ₂
19	30	480	580	F	4 ₂
19	30	395	480	M	4 ₂
19	30	335	390	M	3 ₂
19	30	400	480	M	R ₂
19	30	380	450	M	4 ₂
19	30	410	495	M	4 ₂
19	30	540	640	M	5 ₂
JULY 20	31	425	510	F	4 ₂
20	31	480	590	M	4 ₂
20	31	475	580	F	5 ₂
20	31	430	525	M	4 ₂
20	31	370	450	M	R ₂
20	31	445	525	M	R
20	31	445	530	F	4 ₂
20	31	510	615	F	5 ₂
20	31	435	520	M	4 ₂
20	31	415	490	M	4 ₂
20	31	495	585	F	R ₂
20	31	440	515	F	4 ₂
20	31	450	540	F	5 ₂
20	31	305	365	M	3 ₂
20	31	305	365	M	3 ₂
20	31	505	600	F	5 ₂
20	31	415	490	M	4 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 20	31	430	510	F	4 ₂
20	31	495	600	M	5 ₂
20	31	320	385	M	3 ₂
20	31	520	625	F	5 ₂
20	31	415	505	M	4 ₂
20	31	435	530	M	4 ₂
20	31	555	670	M	5 ₂
20	31	455	550	F	4 ₂
20	32	510	615	F	5 ₂
20	32	410	485	M	4 ₂
20	32	540	635	F	5 ₂
20	32	420	510	M	4 ₂
20	32	550	655	M	5 ₂
20	32	315	375	M	3 ₂
20	32	410	495	M	4 ₂
20	32	445	530	F	4 ₂
20	32	310	365	M	3 ₂
20	32	525	630	F	5 ₂
JULY 21	32	390	480	M	4 ₂
21	32	450	490	M	4 ₂
21	32	545	660	M	5 ₂
21	32	515	620	F	5 ₂
21	32	420	510	M	R ₂
21	32	380	470	M	4 ₂
21	32	430	535	M	4 ₂
21	32	375	470	M	4 ₂
21	32	430	520	F	5 ₂
21	32	525	655	M	5 ₃
21	32	315	375	M	3 ₂
21	32	455	550	F	4 ₂
21	32	410	500	M	R ₂
21	32	535	655	F	5 ₂
21	32	450	540	F	4 ₂
21	33	540	640	F	5 ₂
21	33	425	505	F	4 ₂
21	33	435	530	F	4 ₂
21	33	415	515	M	4 ₂
21	33	465	565	F	R ₂
21	33	400	470	M	4 ₂
21	33	420	500	M	4 ₂
21	33	430	520	F	4 ₂
21	33	385	465	M	4 ₂
21	33	415	515	M	4 ₂
21	33	310	365	F	3 ₂
21	33	550	650	M	5 ₂
21	33	420	510	F	4 ₂
21	33	405	500	M	4 ₂
21	33	465	550	F	4 ₂
JULY 22	33	450	530	F	4 ₂
22	33	530	645	F	5 ₂
22	33	450	540	F	3 ₂
22	33	420	510	M	4 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 22	33	395	485	M	4 ₂
22	33	455	540	F	4 ₂
22	33	400	485	M	4 ₂
22	33	480	580	F	R ₂
22	33	430	520	F	4 ₂
22	33	415	505	F	4 ₂
22	34	460	575	F	4 ₂
22	34	315	380	M	3 ₂
22	34	400	485	M	4 ₂
22	34	435	515	F	4 ₂
22	34	430	520	F	4 ₂
22	34	430	520	F	4 ₂
22	34	435	530	F	4 ₂
22	34	505	610	M	NP
22	34	410	495	M	4 ₂
22	34	520	630	F	5 ₂
22	34	460	540	F	4 ₂
22	34	440	525	F	5 ₂
22	34	340	405	M	3 ₂
22	34	405	480	M	4 ₂
22	34	425	490	F	4 ₂
22	34	395	480	M	4 ₂
22	34	415	500	F	4 ₂
22	34	405	505	M	4 ₂
22	34	445	535	F	5 ₂
22	34	325	380	M	3 ₃
JULY 23	34	440	535	M	4 ₂
23	34	510	630	M	5 ₂
23	34	425	515	M	4 ₂
23	34	450	550	M	4 ₂
23	34	520	640	F	5 ₂
23	35	400	490	M	4 ₂
23	35	540	660	M	5 ₂
23	35	420	530	M	4 ₂
23	35	390	475	M	4 ₂
23	35	430	515	F	4 ₂
23	35	320	380	M	NP
23	35	540	655	F	5 ₂
23	35	525	640	M	R ₂
23	35	410	505	M	4 ₂
23	35	420	505	F	4 ₂
23	35	410	500	M	4 ₂
23	35	400	485	M	4 ₂
23	35	505	620	M	5 ₂
23	35	420	520	F	4 ₂
23	35	400	480	M	4 ₂
23	35	380	450	M	4 ₂
23	35	320	385	M	3 ₂
23	35	390	480	M	4 ₂
23	35	375	450	M	4 ₂
23	35	320	375	M	3 ₂
23	35	520	650	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 23	35	315	370	M	W
23	35	330	390	M	3 ₂
23	35	320	390	M	R ²
23	35	430	525	M	4 ₂
JULY 24	36	490	600	F	5 ₂
24	36	530	650	M	R ²
24	36	320	380	M	R
24	36	390	480	M	4 ₂
24	36	410	500	M	4 ₂
24	36	450	540	F	4 ₂
24	36	440	530	M	4 ₂
24	36	300	360	M	R ²
24	36	420	520	M	4 ₂
24	36	500	610	F	5 ₂
24	36	525	630	F	5 ₂
24	36	330	390	M	3 ₂
24	36	310	380	M	3 ₂
24	36	510	630	F	5 ₂
24	36	295	350	M	3 ₂
24	36	320	380	M	3 ₂
24	36	425	510	F	4 ₂
24	36	290	360	M	3 ₂
24	36	515	620	M	5 ₂
24	36	530	640	M	5 ₂
24	36	525	640	F	5 ₂
24	36	550	670	M	5 ₂
24	36	575	630	M	5 ₂
24	36	520	630	F	5 ₂
24	36	435	530	F	4 ₂
24	37	550	670	F	R ²
24	37	530	650	M	5 ₂
24	37	475	580	F	5 ₂
24	37	505	615	F	5 ₂
24	37	305	370	M	3 ₂
JULY 25	37	530	660	M	5 ₂
25	37	500	605	F	5 ₂
25	37	445	540	M	R ²
25	37	505	615	M	5 ₂
25	37	520	650	M	5 ₂
25	37	320	390	M	3 ₂
25	37	495	595	M	4 ₂
25	37	530	630	M	5 ₂
25	37	530	650	M	6 ₃
25	37	450	550	F	4 ₂
25	37	410	490	M	4 ₂
25	37	505	605	F	5 ₂
25	37	450	540	F	R ²
25	37	415	515	M	4 ₂
25	37	440	530	F	4 ₂
25	37	490	595	M	R ²
25	37	420	495	M	5 ₃
25	37	320	395	M	3 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK	SEX	AGE
JULY 25	37	425	520		F	4
25	37	310	375		M	3 ₂
25	38	330	390		M	3 ₂
25	38	560	680		M	5 ₂
25	38	430	515		M	4 ₂
25	38	410	490		M	4 ₂
25	38	400	485		M	R ²
25	38	535	645		M	5 ₂
25	38	525	620		F	5 ₂
25	38	510	610		F	5 ₂
25	38	470	575		F	5 ₂
25	38	440	540		M	4 ₂
JULY 26	38	480	580		F	4 ₂
26	38	440	535		F	4 ₂
26	38	425	525		F	4 ₂
26	38	530	655		M	5 ₂
26	38	460	560		F	4 ₂
26	38	380	475		M	4 ₂
26	38	475	575		M	4 ₂
26	38	520	630		F	R ²
26	38	395	485		M	4 ₂
26	38	530	645		F	5 ₂
26	38	480	580		M	4 ₂
26	38	420	515		M	4 ₂
26	38	510	620		F	5 ₂
26	38	550	680		M	5 ₂
26	38	505	620		F	5 ₂
26	39	530	635		F	5 ₂
26	39	500	600		F	5 ₂
26	39	445	540		F	4 ₂
26	39	390	480		M	4 ₂
26	39	505	625		F	5 ₂
26	39	510	620		F	5 ₂
26	39	440	530		F	4 ₂
26	39	465	565		M	4 ₂
26	39	495	610		F	5 ₂
26	39	390	485		M	4 ₂
26	39	540	655		M	5 ₂
26	39	435	525		F	4 ₂
26	39	540	660		F	5 ₂
26	39	530	645		M	5 ₂
26	39	500	620		F	5 ₂
JULY 27	40	315	385		M	3 ₂
27	40	330	400		M	3 ₂
27	40	505	615		M	5 ₂
27	40	530	650		M	5 ₂
27	40	510	620		M	5 ₂
27	40	420	505		M	4 ₂
27	40	520	630		M	5 ₂
27	40	550	670		M	5 ₂
27	40	545	640		M	5 ₂
27	40	515	620		F	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 27	40	540	660	M	W
27	40	400	480	M	4 ₂
27	40	515	600	F	5 ₂
27	40	425	510	F	4 ₂
27	40	305	370	M	3 ₂
27	40	520	640	M	R ₂
27	40	450	550	F	4 ₂
27	40	485	590	F	5 ₂
27	40	340	415	M	3 ₂
27	40	510	650	M	5 ₂
27	40	570	690	M	5 ₂
27	40	510	650	M	5 ₂
27	40	480	570	F	5 ₂
27	40	330	395	M	3 ₂
27	40	530	660	M	5 ₂
27	41	460	550	F	4 ₂
27	41	420	505	M	4 ₂
27	41	445	540	M	4 ₂
27	41	410	485	M	4 ₂
27	41	455	550	F	4 ₂
JULY 28	41	410	500	M	4 ₂
28	41	550	660	M	5 ₂
28	41	430	515	F	4 ₂
28	41	480	600	F	5 ₂
28	41	530	630	F	5 ₂
28	41	470	580	M	4 ₂
28	41	445	540	M	4 ₂
28	41	295	340	M	R ₂
28	41	540	665	M	5 ₂
28	41	505	620	F	5 ₂
28	41	510	615	F	5 ₂
28	41	300	355	M	3 ₂
28	41	440	540	F	4 ₂
28	41	430	520	F	4 ₂
28	41	555	675	M	5 ₂
28	41	300	360	M	3 ₂
28	41	510	620	F	5 ₂
28	41	495	600	F	R ₂
28	41	535	640	F	5 ₂
28	41	405	500	M	4 ₂
28	42	550	660	M	5 ₂
28	42	530	640	M	5 ₂
28	42	530	650	M	5 ₂
28	42	410	490	M	4 ₂
28	42	460	570	M	4 ₂
28	42	440	535	F	4 ₂
28	42	505	630	M	5 ₂
28	42	515	620	F	5 ₂
28	42	480	595	F	R ₂
28	42	550	680	M	5 ₂
JULY 29	42	405	500	M	4 ₂
29	42	310	380	M	3 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 29	42	515	630	F	R
29	42	410	515	F	4
29	42	545	665	M	5
29	42	495	585	F	5
29	42	415	510	F	4
29	42	450	545	M	4
29	42	500	610	F	5
29	42	465	560	M	4
29	42	530	650	M	5
29	42	440	535	F	4
29	42	495	610	F	5
29	42	530	650	M	5
29	42	515	625	M	R
29	43	535	640	M	5
29	43	450	550	M	4
29	43	480	580	F	5
29	43	475	580	F	5
29	43	520	625	F	5
29	43	470	555	F	4
29	43	470	550	F	4
29	43	520	630	F	5
29	43	415	515	M	4
29	43	450	545	F	4
29	43	500	605	F	5
29	43	530	640	M	5
29	43	500	585	M	4
29	43	520	630	F	5
JULY 29	43	400	480	M	4
30	43	370	455	M	4
30	43	495	610	M	5
30	43	535	655	M	5
30	43	540	670	M	5
30	43	405	500	M	4
30	43	530	645	F	5
30	43	360	445	M	3
30	43	470	555	F	5
30	43	480	560	F	4
30	43	485	590	F	5
30	44	440	530	F	4
30	44	520	640	M	5
30	44	415	495	F	4
30	44	440	520	F	4
30	44	545	655	M	5
30	44	525	630	F	5
30	44	445	530	F	4
30	44	530	630	F	5
30	44	535	670	M	5
30	44	485	580	F	5
30	44	500	600	F	5
30	44	515	610	F	5
30	44	485	585	F	R
30	44	495	600	F	5

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 30	44	525	625	F	5 ₂
30	44	505	630	M	5 ₂
30	44	530	640	F	5 ₂
30	44	505	630	M	5 ₂
30	44	515	670	M	6 ₂
30	44	390	475	M	4 ₂
JULY 31	44	530	645	F	W ₂
31	44	550	680	M	5 ₂
31	44	540	645	F	5 ₂
31	44	405	475	F	R ₂
31	44	495	600	F	5 ₂
31	45	530	650	M	5 ₂
31	45	450	540	F	4 ₂
31	45	430	515	F	4 ₂
31	45	520	635	F	5 ₂
31	45	410	515	M	R ₂
31	45	520	625	F	5 ₂
31	45	580	705	M	5 ₂
31	45	515	640	M	5 ₂
31	45	490	570	F	4 ₂
31	45	540	650	F	5 ₂
31	45	550	670	F	5 ₂
31	45	540	680	M	5 ₂
31	45	520	630	F	5 ₂
31	45	505	620	F	5 ₂
31	45	535	670	M	5 ₂
31	45	440	530	M	4 ₂
31	45	435	530	M	4 ₂
31	45	500	650	F	5 ₂
31	45	395	470	M	4 ₂
31	45	510	640	F	5 ₂
31	45	520	620	F	5 ₂
31	45	550	645	M	5 ₂
31	45	540	655	F	5 ₂
31	45	475	560	F	4 ₂
31	45	500	610	F	5 ₂
AUG. 1	46	520	635	M	5 ₂
1	46	355	430	M	3 ₂
1	46	320	380	M	3 ₂
1	46	505	630	M	5 ₂
1	46	465	545	F	4 ₂
1	46	435	515	F	4 ₂
1	46	450	550	F	4 ₂
1	46	540	650	F	5 ₂
1	46	540	650	M	5 ₂
1	46	525	640	F	5 ₂
1	46	500	600	M	5 ₂
1	46	530	640	F	5 ₂
1	46	490	610	M	R ₂
1	46	515	640	F	R
1	46	505	605	F	4 ₂
1	46	530	660	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK	SEX	AGE
AUG.	1	46	560	675	M	5 ₂
	1	46	535	640	F	5 ₂
	1	46	550	640	F	5 ₂
	1	46	515	630	M	5 ₂
	1	46	530	630	M	W ₂
	1	46	560	670	F	5 ₂
	1	46	525	635	F	5 ₂
	1	46	550	660	M	5 ₂
	1	46	420	510	M	4 ₂
	1	47	475	590	M	5 ₂
	1	47	490	615	F	R ₂
	1	47	550	675	M	5 ₂
	1	47	540	660	M	5 ₂
	1	47	450	550	F	W ₂
AUG.	2	47	410	530	M	4 ₂
	2	47	505	630	F	5 ₂
	2	47	310	375	M	3 ₂
	2	47	525	620	F	5 ₂
	2	47	505	610	F	5 ₂
	2	47	360	435	M	5 ₂
	2	47	455	560	F	4 ₂
	2	47	530	645	M	5 ₂
	2	47	470	575	F	4 ₂
	2	47	415	505	F	4 ₂
	2	47	510	620	F	5 ₂
	2	47	495	605	F	5 ₂
	2	47	485	565	M	4 ₂
	2	47	535	655	M	5 ₂
	2	47	500	605	F	R ₂
	2	47	460	560	F	4 ₂
	2	47	420	505	F	4 ₂
	2	47	450	540	F	4 ₂
	2	47	520	645	M	5 ₂
	2	47	550	675	M	5 ₂
	2	48	450	540	F	4 ₂
	2	48	495	585	F	5 ₂
	2	48	530	650	M	5 ₂
	2	48	530	630	F	5 ₂
	2	48	425	505	F	4 ₂
	2	48	505	615	F	5 ₂
	2	48	545	645	F	R ₂
	2	48	545	660	F	5 ₂
	2	48	525	625	F	5 ₂
	2	48	525	650	M	R ₂
AUG.	3	49	305	370	M	3 ₂
	3	49	510	605	F	5 ₂
	3	49	320	390	M	3 ₂
	3	49	470	590	M	R ₂
	3	49	450	530	F	4 ₂
	3	49	500	610	F	5 ₂
	3	49	430	515	F	4 ₂
	3	49	530	660	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
AUG.	3	49	340	410	M	3 ²
	3	49	540	650	M	5 ²
	3	49	460	560	F	4 ²
	3	49	350	440	M	4 ²
	3	49	360	440	M	4 ²
	3	49	300	360	M	3 ²
	3	49	340	405	M	3 ²
	3	49	310	370	M	3 ²
	3	49	460	560	F	4 ²
	3	49	510	620	F	5 ²
	3	49	490	590	M	4 ²
	3	49	480	580	M	4 ²
	3	49	400	480	M	4 ²
	3	49	530	660	M	5 ²
	3	49	305	370	M	3 ²
	3	49	465	585	M	R ²
	3	49	320	365	M	3 ²
	3	50	470	570	F	4 ²
	3	50	450	560	M	4 ²
	3	50	325	370	M	3 ²
	3	50	480	600	M	4 ²
	3	50	315	390	M	3 ²
AUG.	4	50	550	680	M	5 ²
	4	50	520	620	F	5 ²
	4	50	450	525	F	4 ²
	4	50	530	630	M	5 ²
	4	50	520	645	F	R ²
	4	50	525	645	M	5 ²
	4	50	435	540	F	4 ²
	4	50	530	630	F	5 ²
	4	50	320	390	M	3 ²
	4	50	400	480	M	4 ²
	4	50	320	385	M	3 ²
	4	50	445	530	M	4 ²
	4	50	500	610	M	5 ²
	4	50	410	505	M	4 ²
	4	50	555	670	M	5 ²
	4	50	410	500	M	R ²
	4	50	430	515	F	4 ²
	4	50	315	390	M	3 ²
	4	50	475	580	M	4 ²
	4	50	480	595	F	5 ²
	4	51	390	480	M	4 ²
	4	51	360	440	M	4 ²
	4	51	340	410	M	3 ²
	4	51	410	510	F	4 ²
	4	51	445	550	F	5 ²
	4	51	405	500	M	4 ²
	4	51	440	530	F	4 ²
AUG.	5	51	530	645	M	5 ²
	5	51	430	530	F	4 ²
	5	51	330	415	M	R ²

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
AUG.	5	51	415	510	M	4 ²
	5	51	380	480	M	4 ²
	5	51	325	385	M	3 ²
	5	51	305	375	M	3 ²
	5	51	415	500	M	4 ²
	5	51	440	550	F	4 ²
	5	51	415	510	M	4 ²
	5	51	395	480	F	4 ²
AUG.	6	51	490	575	F	5 ²
	6	51	410	510	M	4 ²
	6	51	520	620	F	5 ²
	6	51	410	510	M	4 ²
	6	51	425	520	F	4 ²
	6	51	490	600	F	5 ²
	6	51	470	580	M	4 ²
	6	52	440	540	M	5 ²
	6	52	540	670	M	5 ³
	6	52	440	540	F	4 ²
	6	52	540	650	F	5 ²
	6	52	415	510	M	4 ²
	6	52	545	660	F	5 ²
	6	52	380	470	M	4 ²
	6	52	350	425	M	3 ²
	6	52	510	625	F	5 ²
	6	52	530	670	M	5 ²
	6	52	310	385	M	3 ²
	6	52	430	520	F	4 ²
	6	52	465	570	M	4 ²
	6	52	540	640	M	5 ²
	6	52	505	605	F	5 ²
	6	52	405	485	F	4 ²
	6	52	450	545	F	4 ²
	6	52	390	485	M	4 ³
	6	52	390	470	M	4 ²
	6	52	410	505	M	4 ²
	6	52	410	485	M	4 ²
	6	52	540	645	M	4 ²
AUG.	7	52	420	515	M	4 ²
	7	52	530	660	F	5 ²
	7	52	500	625	M	5 ²
	7	53	510	630	M	5 ²
	7	53	315	390	M	3 ²
	7	53	540	670	M	5 ²
	7	53	525	630	F	5 ²
	7	53	420	500	F	4 ²
	7	53	460	550	F	4 ²
	7	53	505	625	F	R ²
	7	53	570	680	F	5 ²
	7	53	530	660	M	5 ²
	7	53	535	650	F	5 ²
	7	53	325	390	M	3 ²
	7	53	540	660	M	5 ²

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 7	53	430	530	F	4 ²
7	53	505	600	F	R ²
7	53	490	620	M	5 ²
7	53	530	640	F	5 ²
7	53	445	530	F	4 ²
7	53	440	525	F	4 ²
7	53	535	670	M	5 ²
7	53	470	580	F	5 ²
7	53	530	635	F	5 ²
7	53	550	670	M	5 ²
7	53	570	700	M	W ²
7	53	425	520	F	4 ²
7	53	485	575	F	R ²
7	54	555	665	F	5 ²
7	54	540	650	M	4 ²
7	54	430	525	F	4 ²
AUG. 8	54	535	660	F	5 ²
8	54	540	655	F	5 ²
8	54	555	685	M	R ²
8	54	555	690	M	5 ²
8	54	570	720	M	5 ²
8	54	315	380	M	3 ²
8	54	530	645	F	5 ²
8	54	450	540	F	4 ²
8	54	555	680	M	5 ²
8	54	400	485	M	4 ²
8	54	575	690	M	5 ²
8	54	430	530	M	4 ²
8	54	540	645	F	5 ²
8	54	450	550	F	4 ²
8	54	455	550	M	4 ²
8	54	505	595	F	4 ²
8	54	535	655	M	5 ³
8	54	575	695	M	5 ²
8	54	470	570	F	4 ²
8	54	415	495	M	4 ²
8	54	495	595	M	R ²
8	54	465	555	F	5 ³
8	55	495	610	M	R ³
8	55	550	650	F	5 ²
8	55	425	510	F	4 ²
8	55	470	550	M	4 ²
8	55	530	655	M	R ²
8	55	515	650	M	5 ²
8	55	465	560	M	4 ²
8	55	330	400	M	3 ²
AUG. 9	55	380	470	M	R ²
9	55	430	520	F	4 ²
9	55	500	520	F	5 ²
9	55	450	550	F	4 ²
9	55	555	680	M	6 ³
9	55	505	620	F	5 ²

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
AUG.	9	55	455	570	F	4 ₂
	9	55	470	585	M	4 ₂
	9	55	465	580	M	4 ₂
	9	55	495	605	M	5 ₂
	9	55	510	615	F	5 ₂
	9	55	440	525	M	4 ₂
	9	55	530	655	M	5 ₂
	9	55	530	650	F	5 ₂
	9	55	450	545	F	4 ₂
	9	55	325	380	M	3 ₂
	9	55	340	410	M	3 ₂
	9	56	315	385	M	R ₂
	9	56	325	395	M	3 ₂
	9	56	340	400	M	3 ₂
	9	56	340	410	M	3 ₂
	9	56	410	485	F	4 ₂
	9	56	425	515	F	4 ₂
	9	56	425	520	M	4 ₂
	9	56	310	370	M	3 ₂
	9	56	320	390	M	3 ₂
AUG.	10	57	315	380	M	3 ₂
	10	57	445	530	F	4 ₂
	10	57	450	500	M	4 ₂
	10	57	540	655	F	5 ₂
	10	57	560	685	M	5 ₂
	10	57	520	640	F	R ₂
	10	57	535	655	F	5 ₂
	10	57	525	650	M	5 ₂
	10	57	470	570	M	R ₂
AUG.	11	57	310	370	M	3 ₂
	11	57	415	500	F	4 ₂
	11	57	450	550	F	4 ₂
	11	57	540	680	M	5 ₂
	11	57	535	670	M	5 ₂
	11	57	520	655	M	5 ₂
	11	57	420	495	F	4 ₂
	11	57	430	525	F	R ₂
	11	57	440	540	M	5 ₃
	11	57	320	380	M	3 ₂
	11	57	485	595	M	4 ₂
	11	57	330	390	M	3 ₂
AUG.	12	57	320	390	M	3 ₂
	12	57	310	375	M	3 ₂
	12	57	320	370	M	3 ₂
	12	57	490	590	F	5 ₂
	12	58	530	650	F	5 ₂
	12	58	490	585	F	5 ₂
	12	58	555	690	M	5 ₂
	12	58	410	485	F	4 ₂
	12	58	560	695	M	5 ₂
	12	58	310	375	M	W ₂
	12	58	575	700	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
AUG.	12	58	435	525	F	4 ₂
	12	58	490	580	F	NP
	12	58	470	570	F	W
	12	58	550	660	F	5 ₂
	12	58	440	540	F	4 ₂
	12	58	405	490	F	4 ₂
AUG.	13	58	500	625	F	5 ₂
	13	58	545	660	F	5 ₂
	13	58	340	410	M	3 ₂
	13	58	370	445	M	R ₂
AUG.	14	58	450	535	F	4 ₂
	14	58	450	550	M	4 ₂
	14	58	530	650	F	5 ₂
	14	58	516	630	F	5 ₂
	14	58	560	685	M	5 ₂
	14	58	580	700	M	R ₂
	14	58	445	540	M	4 ₂
	14	58	435	520	M	4 ₂
	14	59	540	650	F	5 ₂
	14	59	525	650	M	5 ₂
	14	59	480	590	M	4 ₂
	14	59	465	580	F	R ₂
	14	59	425	515	F	4 ₂
	14	59	520	645	M	5 ₂
	14	59	540	675	M	R ₂
	14	59	530	645	M	5 ₂
	14	59	435	520	F	4 ₂
	14	59	510	615	F	5 ₂
	14	59	530	650	F	5 ₂
	14	59	485	595	M	4 ₂
	14	59	520	645	M	5 ₂
	14	59	440	520	M	4 ₂
	14	59	520	640	M	5 ₂
	14	59	530	640	F	5 ₂
	14	59	545	680	M	5 ₂
	14	59	560	670	F	5 ₂
	14	59	530	660	F	5 ₂
	14	59	490	600	F	5 ₂
	14	59	440	540	F	5 ₃
	14	59	470	565	M	4 ₂
	14	59	470	570	M	4 ₂
AUG.	15	59	550	670	M	5 ₂
	15	59	450	560	F	4 ₂
	15	60	520	630	M	5 ₂
	15	60	530	640	M	5 ₂
	15	60	570	700	M	5 ₂
	15	60	525	640	F	5 ₂
	15	60	535	660	M	5 ₂
	15	60	380	460	M	4 ₂
	15	60	560	685	M	5 ₂
	15	60	430	530	F	4 ₂
	15	60	545	665	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 15	60	470	565	F	R
15	60	580	710	F	5 ₂
15	60	505	600	F	5 ₂
15	60	560	680	M	5 ₂
15	60	550	675	M	W ₂
15	60	470	580	F	R
15	60	455	560	F	4 ₂
15	60	475	550	F	4 ₂
15	60	565	685	M	5 ₂
15	60	495	650	M	4 ₂
15	60	420	510	M	4 ₂
15	60	535	650	F	5 ₂
15	60	510	605	F	5 ₂
15	60	505	625	F	5 ₂
15	60	330	400	M	3 ₂
15	60	410	500	F	4 ₂
15	61	505	620	F	5 ₂
15	61	460	560	F	4 ₂
15	61	460	560	M	4 ₂
AUG. 16	61	540	640	F	5 ₂
16	61	530	650	M	5 ₂
16	61	540	645	M	5 ₂
16	61	540	640	F	5 ₂
16	61	440	530	F	4 ₂
16	61	455	550	M	4 ₂
16	61	480	580	M	4 ₂
16	61	565	670	F	R ₂
16	61	485	590	M	5 ₃
16	61	545	660	M	5 ₂
16	61	540	670	M	5 ₂
16	61	430	520	F	4 ₂
16	61	520	635	M	5 ₂
16	61	510	610	F	R ₂
16	61	330	400	M	3 ₂
16	61	480	570	F	5 ₂
16	61	460	550	F	4 ₂
16	61	510	620	M	5 ₂
16	61	435	530	M	R ₂
16	61	550	680	M	5 ₂
16	61	535	650	F	R ₂
16	61	560	680	M	5 ₂
16	62	460	560	F	4 ₂
16	62	475	580	M	4 ₂
16	62	530	650	F	5 ₂
16	62	540	680	M	5 ₂
16	62	530	650	M	4 ₂
16	62	550	680	M	5 ₂
16	62	480	600	F	5 ₃
16	62	590	680	M	5 ₂
AUG. 17	63	515	645	M	5 ₂
17	63	530	650	M	4 ₂
17	63	530	640	M	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 17	63	460	560	F	4 ₂
17	63	380	460	M	4 ₂
17	63	485	580	F	5 ₂
17	63	555	665	M	5 ₂
17	63	470	580	F	5 ₂
17	63	455	550	F	4 ₂
17	63	455	550	F	4 ₂
17	63	455	560	F	4 ₂
17	63	350	420	M	3 ₂
AUG. 18	63	490	575	F	4 ₂
18	63	470	550	F	5 ₃
18	63	420	510	F	4 ₂
18	63	500	620	M	5 ₂
18	63	450	550	F	4 ₂
18	63	330	400	M	3 ₂
18	63	355	430	M	3 ₂
18	63	475	590	F	4 ₂
18	63	530	650	F	5 ₂
18	63	560	700	M	5 ₂
18	63	430	520	F	4 ₂
18	63	530	640	F	5 ₂
AUG. 19	63	550	690	M	5 ₂
19	64	550	680	M	5 ₂
19	64	530	670	M	5 ₂
AUG. 20	64	450	550	F	4 ₂
20	64	525	650	M	5 ₂
20	64	555	680	M	5 ₂
20	64	550	660	M	5 ₂
20	64	545	640	F	5 ₂
20	64	485	600	F	5 ₂
20	64	445	530	F	4 ₂
AUG. 21	64	555	680	M	5 ₂
21	64	520	630	F	5 ₂
21	64	520	630	F	5 ₃
21	64	550	670	F	5 ₂
21	64	540	670	F	5 ₂
21	64	480	590	F	5 ₂
21	64	540	670	M	5 ₂
21	64	560	660	F	5 ₂
21	64	455	555	F	4 ₂
21	64	470	570	F	4 ₂
21	64	540	670	M	R ²
21	64	535	670	M	5 ₂
21	64	470	585	M	4 ₂
21	64	560	690	M	5 ₂
AUG. 22	64	520	640	M	5 ₂
22	64	450	540	F	4 ₂
22	65	540	675	M	5 ₂
22	65	450	550	F	4 ₂
22	65	510	640	M	4 ₂
22	65	505	610	F	5 ₂
22	65	535	630	F	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 22	65	460	580	M	4 ₂
22	65	480	585	F	4 ₂
22	65	420	510	F	4 ₂
22	65	500	630	M	R ₂
22	65	490	600	F	5 ₂
22	65	460	560	M	4 ₂
22	65	470	580	F	4 ₂
22	65	440	520	F	4 ₂
22	65	540	630	F	5 ₂
22	65	450	540	M	4 ₂
22	65	520	650	M	5 ₂
22	65	560	685	M	5 ₂
22	65	455	575	M	4 ₂
AUG. 23	66	550	685	M	5 ₂
23	66	310	380	M	3 ₂
23	66	440	540	M	4 ₂
23	66	450	550	F	4 ₂
23	66	515	620	F	4 ₂
23	66	545	645	F	5 ₂
23	66	480	590	M	4 ₂
23	66	440	550	M	4 ₂
23	66	380	480	M	4 ₂
23	66	520	650	F	5 ₂
23	66	450	540	F	4 ₂
23	66	430	530	F	4 ₂
23	66	460	560	F	4 ₂
23	66	440	540	F	4 ₂
23	66	450	560	F	5 ₂
23	66	470	590	M	4 ₂
23	66	460	550	F	4 ₂
23	66	340	420	F	3 ₂
23	66	400	480	F	R ₂
23	66	345	405	M	3 ₂
23	66	300	360	M	3 ₂
AUG. 24	67	540	670	M	5 ₂
24	67	560	700	M	5 ₂
24	67	520	650	M	5 ₂
24	67	550	680	M	5 ₂
24	67	560	675	F	R ₂
24	67	530	645	F	R
24	67	515	630	F	5 ₂
24	67	445	550	F	4 ₂
24	67	530	650	F	5 ₂
24	67	535	650	F	5 ₂
24	67	520	640	F	5 ₂
24	67	565	700	M	5 ₂
24	67	470	570	F	4 ₂
24	67	535	665	M	5 ₂
24	67	520	640	F	5 ₂
AUG. 25	67	430	530	F	4 ₂
25	67	540	670	M	5 ₂
AUG. 26	67	560	680	F	5 ₂

Sockeye age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 26	67	450	550	M	4
26	67	515	630	F	5 ₂
26	67	580	705	M	5 ₂
26	67	540	660	M	5 ₂
26	67	540	655	F	5 ₂
26	67	515	635	F	5 ₂
26	67	585	735	M	5 ₂
AUG. 27	68	540	680	M	5 ₂
AUG. 28	68	570	700	M	5 ₂
AUG. 29	68	520	640	M	5 ₂
29	68	510	630	F	5 ₂
29	68	520	640	F	5 ₂
AUG. 30	68	510	640	F	R ₂
30	68	560	680	M	5 ₂
30	68	470	570	M	4 ₂
30	68	455	545	F	4 ₂
30	68	515	630	F	5 ₂

APPENDIX 10. Age, length and sex information for Coho salmon sampled from the Skeena River gillnet test fishery, 1987.

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 22	1	500	615	F	32
JULY 23	1	335	420	M	32
JULY 24	1	335	420	M	32
JULY 25	1	340	415	M	32
JULY 26	1	395	485	M	32
26	2	380	460	M	32
26	2	550	690	M	32
26	2	345	435	M	32
JULY 27	3	520	620	F	43
27	3	440	525	M	32
JULY 28	3	490	625	M	32
28	3	420	510	M	32
JULY 29	3	500	610	F	R
29	4	400	520	F	32
29	4	350	440	M	32
JULY 30	4	485	605	M	32
30	4	490	625	M	32
30	4	540	660	M	32
30	5	440	550	M	32
30	5	470	585	M	32
30	5	350	440	M	32
JULY 31	5	585	715	F	43
31	5	400	480	M	32
31	6	380	470	M	32
AUG. 1	6	500	610	M	32
1	6	520	620	F	R
1	6	410	500	M	32
1	6	420	510	M	32
1	7	560	720	M	32
1	7	520	640	F	32
1	7	360	445	M	43
1	7	455	565	M	32
1	7	320	390	M	32
AUG. 2	8	405	500	M	32
2	8	430	530	M	32
2	8	520	660	M	43
2	8	420	530	M	32
2	8	390	470	M	32
2	9	450	550	M	32
AUG. 3	10	455	570	M	32
AUG. 5	10	540	680	M	32
5	10	355	430	M	R
AUG. 6	10	510	625	F	32
6	10	555	695	M	32
6	11	400	480	M	32
AUG. 7	11	540	650	F	32
7	11	520	630	F	32
7	11	395	500	M	32
7	11	540	670	F	32
AUG. 8	12	425	520	M	32
8	12	390	495	M	32
AUG. 10	13	470	580	F	32
10	13	545	685	M	32

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE	
AUG.	12	13	535	660	M	32
	12	13	550	700	M	32
	12	13	525	635	F	R
AUG.	13	14	500	625	M	43
AUG.	14	14	570	685	F	R
	14	14	465	575	F	32
	14	14	435	545	M	32
AUG.	15	14	520	650	M	32
	15	15	410	515	M	32
	15	15	430	530	M	R
	15	15	490	585	F	32
AUG.	16	15	540	670	M	32
	16	15	530	640	F	32
	16	16	390	480	M	R
	16	16	545	680	F	32
	16	16	570	720	M	32
AUG.	17	17	475	600	M	32
	17	17	575	700	F	43
AUG.	18	17	360	450	M	32
	18	17	380	465	M	32
	18	17	425	520	M	R
	18	18	550	670	F	32
	18	18	525	640	F	32
AUG.	19	18	550	680	F	32
	19	18	560	710	M	32
AUG.	20	18	550	670	F	32
AUG.	21	19	610	770	M	32
	21	19	520	640	F	32
AUG.	22	19	560	715	M	32
AUG.	23	19	540	650	M	32
AUG.	24	20	450	560	M	32
AUG.	25	20	560	700	M	32
	25	20	390	490	M	32
AUG.	26	20	570	690	F	32
	26	20	525	630	F	R
	26	21	525	660	M	32
	26	21	570	720	M	32
	26	21	405	500	M	32
SEPT	2	22	560	710	M	32
	2	22	550	690	F	32
	2	22	540	660	M	32
	2	22	540	670	F	R
	2	22	530	650	M	43
	2	23	600	750	M	32
	2	23	610	720	M	32
	2	23	580	700	F	32
	2	23	550	670	F	32
	2	23	630	890	M	32
	2	24	520	650	F	43
	2	24	410	510	M	32
	2	24	410	490	M	43
	2	24	320	410	M	32

Coho age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK	SEX	AGE
2	24	560	680		M	32
2	25	480	620		M	43
2	25	510	620		M	R

APPENDIX 11. Age, length and sex information for Chum salmon sampled from the Skeena River gillnet test fishery, 1987.

Chum age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK	SEX	AGE
AUG. 3	1	640	805		M	5
AUG. 5	1	575	710		F	4
AUG. 6	1	710	920		M	5
AUG. 8	1	595	745		F	4
8	1	635	795		F	5
AUG. 9	2	640	815		M	4
AUG. 11	3	520	660		M	4
AUG. 12	3	615	770		F	4
12	3	635	805		M	5
AUG. 13	3	640	820		M	4
AUG. 14	3	580	725		M	4
14	4	565	685		F	4
AUG. 15	4	665	850		M	4
AUG. 16	4	580	715		M	4
16	4	625	780		F	5
16	4	625	810		F	5
16	5	575	720		F	5
16	5	650	820		M	4
AUG. 17	6	640	800		M	5
17	6	670	870		M	4
17	6	605	740		F	4
AUG. 18	6	625	790		M	4
18	6	565	690		F	4
18	7	620	760		F	4
18	7	520	660		M	4
18	7	660	840		M	4
AUG. 19	7	590	755		M	4
19	7	650	830		M	4
AUG. 20	8	610	750		F	4
20	8	590	740		F	4
20	8	660	830		M	4
20	8	670	850		M	4
20	8	700	920		M	5
20	9	670	850		M	4
20	9	560	680		F	4
AUG. 21	9	655	810		F	4
21	9	715	900		M	5
21	9	650	850		M	5
21	10	630	815		M	4
21	10	575	700		F	5
21	10	730	900		M	5
21	10	660	870		M	5
21	10	620	770		F	4
21	11	550	680		F	4
21	11	610	740		F	4
AUG. 22	11	610	770		M	4
22	11	685	900		M	4
22	11	560	700		F	4
AUG. 23	12	600	750		M	4
23	12	510	700		F	4
23	12	550	670		F	4
23	12	550	650		F	3
23	12	670	830		F	4

Chum age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 24	13	590	750	F	4
24	13	640	780	M	4
24	13	670	880	M	4
24	13	620	800	M	4
AUG. 26	13	555	695	F	4
26	14	550	715	M	3
AUG. 27	14	520	670	F	3
27	14	550	680	F	4
27	14	590	725	F	4
AUG. 28	14	610	760	F	4
28	15	600	660	F	4
AUG. 29	15	560	690	F	4
29	15	530	670	F	4
29	15	555	680	M	4
29	15	595	730	F	4
29	16	640	805	M	4
29	16	565	680	F	5
29	16	590	725	F	4
AUG. 30	16	660	850	M	4
30	16	645	850	M	4
30	17	610	765	F	5
AUG. 31	18	590	735	F	4
31	18	600	750	F	4
31	18	680	880	M	4
SEPT 2	18	700	850	M	4
2	18	550	650	F	4

APPENDIX 12. Age, length and sex information for Chinook salmon sampled from the Skeena River gillnet test fishery, 1987.

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK LENGTH	SEX	COLOUR	AGE
JUNE 9	1	860	1070		F	R	R
9	1	865	1120		M	R	62
9	1	810	1030		F	R	62
9	1	760	940		M	R	62
9	1	665	810		M	R	52
9	2	500	595		F	R	52
9	2	390	465		M	R	R
9	2	705	870		F	R	R
9	2	895	1120		M	R	62
9	2	815	985		F	R	62
JUNE 10	3	935	1190		M	W	R
10	3	705	880		M	R	52
10	3	845	1040		F	W	62
10	3	875	1060		F	W	R
10	3	800	1005		F	W	62
JUNE 11	4	785	975		F	R	62
11	4	775	950		M	R	52
11	4	840	1020		F	R	62
11	4	785	935		F	R	62
11	4	865	1040		F	W	R
11	5	415	510		M	R	42
JUNE 12	5	875	1095		M	W	62
12	5	885	1105		M	W	62
12	5	665	800		F	R	52
12	5	830	965		F	R	62
JUNE 13	6	820	985		M	R	52
13	6	545	670		M	R	52
13	6	585	725		M	R	R
13	6	780	965		F	R	R
13	6	880	990		M	R	52
13	7	770	940		M	R	62
13	7	865	1050		F	R	R
13	7	780	950		F	R	62
13	7	765	935		M	R	52
13	7	445	540		M	W	42
JUNE 14	8	590	725		M	R	42
14	8	480	585		M	R	R
14	8	560	690		M	R	42
14	8	675	830		F	W	52
14	8	800	985		F	R	R
JUNE 15	9	887	1050		M	R	62
15	9	840	1005		F	R	62
15	9	795	935		M	W	52
15	9	745	885		M	W	52
15	9	810	950		F	W	R
15	10	855	1020		M	R	62
15	10	690	835		M	W	R
15	10	825	1000		F	R	R
15	10	785	930		F	R	62
15	10	835	985		F	R	62
JUNE 16	11	625	820		M	R	52
16	11	690	830		M	W	52
16	11	650	780		M	R	62

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 16	11	670	790	M	W	R
16	11	810	950	F	R	62
16	12	720	840	F	R	52
16	12	735	890	F	R	52
16	12	865	1040	F	R	62
16	12	850	1010	F	R	R
16	12	305	385	M	R	32
JUNE 17	13	690	845	M	R	62
17	13	830	985	F	R	R
17	13	820	970	F	R	62
17	13	910	1125	M	R	62
17	13	835	1010	F	R	62
17	14	515	620	M	R	R
17	14	790	950	F	R	62
17	14	720	890	F	R	52
17	14	850	1015	F	R	62
JUNE 18	14	890	1090	M	R	62
18	15	780	930	F	R	52
18	15	820	985	F	R	62
18	15	810	940	F	R	62
18	15	800	950	F	R	52
18	15	815	975	F	R	R
18	16	705	820	F	R	41
18	16	760	910	F	R	62
18	16	850	1025	M	R	62
18	16	800	960	F	R	62
JUNE 19	16	810	965	F	R	62
19	17	860	1025	F	R	62
19	17	940	1150	M	W	62
19	17	830	980	F	R	62
19	17	715	840	F	R	R
19	17	685	800	M	R	52
19	18	820	960	F	W	62
19	18	870	1020	F	R	62
19	18	720	850	M	R	R
19	18	950	1080	F	R	62
JUNE 20	18	830	1010	M	R	R
20	19	725	820	M	R	41
20	19	770	890	M	R	R
20	19	710	840	F	R	52
20	19	705	850	M	W	52
20	19	625	740	M	R	52
20	20	905	1130	M	R	62
20	20	880	1120	M	R	62
20	20	870	1010	M	R	51
20	20	860	1050	F	R	R
JUNE 21	20	945	1040	M	W	62
21	21	610	730	M	W	42
21	21	760	900	F	R	R
21	21	740	890	M	R	52
21	21	835	1030	F	R	R
21	21	320	385	M	W	R

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 21	22	710	890	F	R	52
21	22	615	760	M	R	52
21	23	925	1150	M	W	62
21	23	745	885	M	R	52
JUNE 22	23	780	915	M	R	R
22	23	790	930	M	R	52
22	23	810	950	F	R	62
22	24	830	990	F	W	62
22	24	850	1015	F	R	62
22	24	865	1010	F	R	51
22	24	830	1000	F	R	62
22	24	950	1150	M	R	62
22	25	780	920	F	R	52
22	25	835	985	F	R	62
JUNE 23	25	805	950	F	R	62
23	25	755	900	M	R	R
23	25	800	940	F	R	62
23	26	890	1055	F	R	62
23	26	875	1040	M	R	62
23	26	875	1050	M	R	52
23	26	490	600	M	R	42
23	26	735	900	M	R	62
23	27	870	1080	M	W	62
23	27	860	1040	M	R	62
JUNE 24	27	860	1080	M	W	62
24	27	775	920	F	R	52
24	27	790	930	F	W	62
24	28	795	950	F	R	62
24	28	780	930	F	R	62
24	28	690	920	F	R	62
24	28	830	970	M	R	62
24	28	740	870	F	R	R
24	29	535	640	M	R	42
24	29	410	495	M	R	42
JUNE 25	29	680	825	M	W	52
25	29	570	655	M	R	42
25	29	730	890	F	R	52
25	30	780	930	M	R	R
25	30	590	705	M	R	42
25	30	820	970	M	R	R
25	30	595	720	M	R	42
25	30	760	920	M	R	52
25	31	790	950	F	R	R
25	31	840	1000	F	R	R
JUNE 26	31	640	785	M	R	52
26	31	765	920	M	R	62
26	31	795	950	F	R	52
26	32	780	940	F	R	52
26	32	835	1010	F	R	62
26	32	740	870	F	R	52
26	32	870	1060	M	R	R
26	32	800	945	F	R	52

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JUNE 26	33	810	965	F	R	62
26	33	820	1000	F	W	62
JUNE 27	33	870	1080	F	W	62
27	33	875	1105	M	R	62
27	33	820	980	F	R	52
27	34	685	835	M	R	52
27	34	950	1180	M	R	R
27	34	955	1200	M	R	R
27	34	810	955	F	R	52
27	34	750	885	F	R	R
27	35	785	920	F	R	62
27	35	775	930	M	R	62
JUNE 28	35	730	875	F	R	52
28	35	820	980	F	R	62
28	35	835	1020	M	R	62
28	36	760	900	M	R	R
28	36	835	1015	F	R	R
28	36	900	1090	M	R	62
28	36	770	940	M	R	62
28	36	740	900	F	R	52
28	37	710	360	M	R	R
28	37	810	960	F	R	62
JUNE 29	38	800	975	M	R	62
29	38	850	1030	F	W	62
29	38	810	970	F	R	62
29	38	835	980	F	R	R
29	38	760	930	M	R	R
29	39	850	960	F	R	62
JUNE 30	39	820	1015	M	R	62
30	39	750	930	F	R	R
30	39	895	1140	M	R	62
30	39	920	1135	M	R	62
30	40	910	1140	M	W	62
30	40	740	940	M	W	52
30	40	855	1025	F	R	R
30	40	565	680	M	R	31
30	40	350	435	M	R	21
JULY 1	41	835	1010	F	R	62
1	41	810	990	F	R	62
1	41	825	1000	F	R	62
1	41	845	1050	F	W	R
1	41	710	880	M	R	52
1	42	760	900	F	R	62
1	42	830	1000	F	R	62
JULY 2	42	550	680	M	R	42
2	42	730	900	M	R	52
2	42	860	1030	F	R	62
2	43	830	1050	M	W	62
2	43	785	970	M	R	R
2	43	905	1105	F	R	62
2	43	855	1020	F	R	62
2	43	860	1070	M	R	R

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE LENGTH	FORK LENGTH	SEX	COLOUR	AGE
JULY	2	44	900	1075	F	R	62
	2	44	735	880	M	R	52
JULY	3	44	310	390	M	R	32
	3	44	345	420	M	W	32
	3	44	920	1130	F	W	62
	3	45	740	910	M	R	52
	3	45	780	950	F	W	51
	3	45	620	760	M	R	42
	3	45	790	960	M	R	52
	3	45	530	660	M	R	42
	3	46	760	930	F	R	62
	3	46	935	1140	F	W	62
JULY	4	46	740	910	M	R	R
	4	46	740	900	M	R	R
	4	46	700	870	M	R	R
	4	47	660	790	M	R	52
	4	47	725	920	F	R	62
	4	47	735	890	M	R	52
	4	47	825	1020	F	R	62
	4	47	760	910	F	R	R
	4	48	745	925	M	R	R
	4	48	730	935	M	R	52
JULY	5	48	745	910	M	W	62
	5	48	730	880	F	R	62
	5	48	755	910	F	R	52
	5	49	930	1135	F	R	62
	5	49	990	1220	M	W	R
	5	49	755	890	M	R	52
	5	49	730	890	F	R	52
	5	49	610	750	M	R	R
	5	50	830	1020	M	R	62
	5	50	820	1000	F	W	62
JULY	6	51	690	840	M	R	R
	6	51	880	1060	M	R	62
	6	51	855	1040	F	R	62
	6	51	760	920	F	R	R
	6	51	730	885	F	R	62
	6	52	820	985	F	R	R
	6	52	700	850	F	R	52
	6	52	740	890	F	R	52
	6	52	845	1090	M	W	52
	6	52	920	1190	M	W	52
JULY	7	53	685	840	M	W	R
	7	53	870	1050	M	R	52
	7	53	930	1130	F	R	62
	7	53	710	860	M	R	52
	7	53	720	870	F	R	52
	7	54	740	900	F	R	52
	7	54	985	1240	M	W	62
	7	54	950	1190	M	R	62
	7	54	820	1000	M	R	62
	7	54	890	1050	F	R	62

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE	
JULY	8	55	370	450	M	W	32
	8	55	265	330	M	R	32
	8	55	875	1080	F	R	62
	8	55	535	650	M	R	42
	8	55	780	950	M	R	R
JULY	9	56	525	640	M	R	42
	9	56	340	415	M	R	32
	9	56	830	1025	F	R	62
	9	56	970	1230	M	W	R
	9	56	990	1280	M	W	R
JULY	10	57	370	450	M	R	R
	10	57	330	395	M	R	32
	10	57	650	790	F	R	52
	10	57	730	890	F	R	52
	10	57	840	1055	M	W	52
JULY	11	58	945	1130	F	R	62
	11	58	700	850	M	W	R
	11	58	910	1135	M	W	62
	11	58	300	360	M	R	R
	11	58	540	660	M	R	42
JULY	12	59	320	385	M	W	21
	12	59	460	570	M	R	R
	12	59	990	1280	M	R	62
	12	59	800	970	F	R	62
	12	59	835	1005	M	R	62
JULY	13	60	350	425	M	R	32
	13	60	325	400	M	R	32
	13	60	640	780	F	R	52
	13	60	860	1060	F	R	62
	13	60	750	930	M	W	52
JULY	14	61	330	400	M	R	32
	14	61	310	390	M	R	32
	14	61	800	970	F	R	62
	14	61	770	930	F	R	R
	14	61	770	940	F	R	62
JULY	15	62	815	1000	F	W	62
	15	62	770	950	F	R	52
	15	62	330	390	M	R	32
	15	62	475	580	M	R	42
	15	62	860	1060	F	W	62
JULY	16	63	780	950	F	R	52
	16	63	355	430	M	R	32
	16	63	740	915	F	R	52
	16	63	950	1145	F	R	62
	16	63	710	880	M	R	52
JULY	17	64	410	495	M	R	32
	17	64	575	710	M	R	42
	17	64	530	645	M	R	42
	17	64	600	720	F	R	R
	17	64	755	950	F	R	52
JULY	18	65	870	1100	M	R	R
	18	65	905	1110	F	R	R

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY 18	65	755	910	F	R	52
18	65	520	630	M	W	42
18	65	910	1130	M	R	R
JULY 19	66	705	900	M	R	52
19	66	675	885	F	R	52
19	66	875	1100	M	R	62
19	66	585	725	M	R	42
19	66	400	495	M	R	42
JULY 20	67	830	1010	F	R	62
20	67	450	550	M	R	42
20	67	850	1050	F	W	62
20	67	850	1060	M	R	R
20	67	860	1075	F	R	62
JULY 21	68	350	410	M	R	32
21	68	840	1010	F	R	62
21	68	600	750	M	R	42
21	68	860	1050	F	W	62
21	68	875	1060	M	R	R
JULY 22	69	900	1100	M	R	R
22	69	750	910	F	R	52
22	69	700	830	F	R	52
22	69	880	1080	M	R	52
22	69	820	1010	F	R	62
JULY 23	70	725	905	M	R	R
23	70	815	990	F	R	62
23	70	850	1070	F	R	62
23	70	730	900	F	R	62
23	70	750	930	M	R	52
JULY 24	71	730	890	F	R	52
24	71	540	670	M	R	42
24	71	545	660	M	R	42
24	71	775	950	F	R	62
24	71	340	410	M	R	R
JULY 25	72	710	870	F	R	52
25	72	495	620	M	R	42
25	72	350	420	M	R	32
25	72	785	965	F	R	62
25	72	810	1005	M	R	R
JULY 26	73	960	1230	M	W	62
26	73	330	410	M	R	32
26	73	470	580	M	R	42
26	73	310	385	M	W	32
26	73	410	510	M	R	R
JULY 27	74	760	930	F	R	R
27	74	290	365	M	R	32
JULY 28	74	510	625	M	R	R
28	74	535	665	M	R	42
JULY 29	74	640	800	F	R	52
29	75	775	960	M	W	52
29	75	810	1005	M	R	R
29	75	710	865	M	R	52
29	75	620	770	M	R	42

Chinook age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	COLOUR	AGE
JULY 30	75	720	875	F	R	41
30	76	355	440	M	R	R
30	76	420	520	M	R	42
JULY 31	76	530	650	M	R	42
31	76	560	680	M	R	42
31	76	280	350	M	R	32
31	77	710	875	F	R	R
31	77	580	720	M	R	R
AUG. 1	77	520	630	M	R	R
1	77	570	690	M	R	R
1	77	750	900	F	R	R
1	78	355	440	M	R	R
AUG. 2	78	755	920	M	R	52
2	78	650	810	M	R	42
AUG. 3	79	780	950	F	R	62
AUG. 4	79	920	1120	M	R	62
AUG. 7	79	710	870	F	R	52
7	79	685	830	M	R	52
AUG. 8	79	835	1060	M	R	62
8	80	735	910	F	R	52

APPENDIX 13. Age, length and sex information for Steelhead trout sampled from the Skeena River gillnet test fishery, 1987.

Steelhead age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
JULY 6	1	590	720	F	R
JULY 9	1	640	770	M	3
9	1	710	870	M	4
9	1	680	840	M	4
JULY 12	1	715	880	F	3
12	2	760	960	M	R
JULY 13	3	610	750	F	32
JULY 17	3	560	690	M	1
17	3	525	645	F	3
17	3	520	640	F	31
JULY 18	3	765	920	F	R
18	4	715	865	M	3
JULY 19	4	675	870	M	3
JULY 20	5	540	645	F	3
JULY 23	5	700	855	F	3
23	5	575	690	F	3
23	5	450	550	F	4
JULY 25	5	640	765	F	4
25	6	590	725	M	3
JULY 27	7	590	725	M	3
JULY 29	7	495	610	F	3
JULY 31	7	640	780	M	3
31	7	675	815	M	R
31	7	710	860	M	R
AUG. 1	8	620	750	F	4
1	8	585	700	F	2
1	8	470	570	M	4
AUG. 2	8	460	570	M	R
AUG. 5	9	520	650	M	R
5	9	425	535	M	R
AUG. 6	9	715	880	F	R
AUG. 7	9	735	910	M	R
7	9	540	675	M	31
7	10	640	810	F	R
7	10	550	680	F	3
7	10	465	570	M	3
7	10	635	785	F	32
AUG. 8	10	775	985	M	3
8	11	735	910	M	31
8	11	645	790	F	3
8	11	570	715	F	3
8	11	515	640	M	R
8	11	600	750	M	3
8	12	595	725	F	41
8	12	395	495	F	1
AUG. 9	12	625	755	F	R
AUG. 12	13	575	690	F	4
AUG. 13	13	605	740	F	3
AUG. 14	13	660	820	M	3
14	13	690	835	F	3
AUG. 15	13	705	840	F	R
15	14	540	665	F	31
15	14	610	735	F	R

Steelhead age, sex and length data.

DATE	SCALE BOOK #	HYPURAL LENGTH	NOSE FORK LENGTH	SEX	AGE
AUG. 15	14	630	765	F	3
15	14	660	800	F	3
15	14	590	715	F	4
15	15	650	795	M	R
AUG. 16	15	700	880	M	3
16	15	735	905	M	3
16	15	690	845	F	32
16	15	670	805	F	3
16	16	630	790	F	3
16	16	575	725	F	3
16	16	735	915	M	3
16	16	595	725	F	3
16	16	730	890	F	3
16	17	565	690	F	1
AUG. 18	18	625	775	M	32
AUG. 20	18	550	670	F	3
AUG. 21	18	730	920	M	33
21	18	750	930	M	32
21	18	655	820	M	4
21	19	620	765	F	32
21	19	735	920	M	R
AUG. 22	19	650	815	M	R
22	19	550	670	F	2
22	19	630	780	F	3
AUG. 23	20	590	730	F	4
23	20	640	790	F	32
AUG. 25	21	550	670	F	4
AUG. 27	21	700	865	F	5
AUG. 29	21	650	785	M	R
SEPT 2	22	580	705	F	4
2	22	690	825	F	32
2	22	715	900	M	R
2	22	675	840	M	3

APPENDIX 14. Length and sex information for Pink salmon sampled from the Skeena River gillnet test fishery, 1987.

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
JULY 21	460	M	JULY 24	480	M
	500	F		520	F
	540	M		520	F
	540	M		520	F
	550	M		530	F
	560	F		530	F
	560	M		530	F
	560	M		530	F
	570	M		530	F
	580	M		530	M
JULY 22	440	F		540	M
	450	M		540	M
	470	F		560	M
	510	M		560	M
	510	F		560	M
	520	F		560	M
	520	F		560	M
	520	M		570	M
	530	M		570	M
	530	M		570	M
	560	M		580	F
	580	M		580	M
	580	M		590	M
	580	M		590	M
	580	M		600	F
	600	M		620	M
	620	M		620	M
JULY 23	460	F		630	M
	460	F		670	M
	470	F	JULY 25	500	F
	470	M		500	M
	480	F		500	M
	490	F		510	F
	490	F		510	M
	490	F		520	F
	500	F		530	M
	500	F		530	M
	500	F		540	F
	500	F		540	F
	510	F		540	M
	520	F		540	M
	520	M		540	M
	530	F		550	F
	530	M		550	M
	540	M		560	F
	560	M		560	M
	560	M		570	M
	560	M		570	M
	580	M		570	F
	580	M		570	F
	610	M		580	M
	610	M		590	M
JULY 24	470	F		610	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
JULY 25	630	M	JULY 28	440	F
JULY 26	370	M		460	M
	460	F		510	F
	480	F		510	M
	490	F		520	F
	490	F		520	F
	500	F		520	F
	510	F		520	F
	510	M		530	F
	510	M		530	M
	520	F		530	M
	520	F		530	M
	530	F		540	M
	530	F		550	F
	530	F		550	M
	530	M		560	M
	530	M		560	M
	540	F		560	M
	540	F		560	M
	560	M		570	F
	560	M		570	M
	560	M		570	M
	570	M		570	M
	570	M		570	M
	570	M		570	M
	570	M		570	M
	580	M		590	M
	620	M		600	M
JULY 27	470	M	JULY 29	440	F
	480	F		460	F
	490	F		460	F
	500	M		490	F
	510	F		500	F
	510	M		520	F
	520	F		520	F
	520	F		520	M
	520	M		530	F
	520	M		530	M
	530	F		530	M
	530	M		530	M
	530	M		540	F
	530	M		540	F
	530	M		540	M
	530	M		540	M
	540	F		550	M
	540	F		560	M
	560	M		580	M
	560	M		580	M
	570	M		580	M
	570	M		580	M
	580	F		590	M
	580	M		590	M
	620	M		590	M
				600	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
JULY 30	450	F	AUG. 1	520	M
	510	F		520	M
	510	M		530	F
	520	F		530	F
	520	M		530	F
	520	M		530	M
	520	M		540	F
	530	F		540	F
	530	M		540	M
	530	M		550	F
	540	F		550	M
	540	F		560	M
	540	M		570	M
	540	M		580	M
	550	F		590	M
	550	F		590	M
	550	F		590	M
	550	F		590	M
	550	F		610	M
	570	F		610	M
	570	M		610	M
	590	M	AUG. 2	480	F
	600	M		510	M
JULY 31	610	M		510	M
	480	F		520	F
	490	F		520	F
	500	F		520	F
	510	M		520	F
	520	F		520	F
	520	F		520	F
	520	F		530	M
	520	F		540	F
	520	F		540	M
	520	F		540	M
	530	F		540	M
	530	F		550	F
	530	F		550	M
	530	F		550	M
	530	M		560	M
	530	M		560	M
	540	F		560	M
	540	F		560	M
	540	M		560	M
	550	M		570	M
	560	F		570	M
	580	M		570	M
	590	M		580	M
	630	M	AUG. 3	450	F
	650	M		500	F
AUG. 1	490	F		500	F
	500	F		500	M
	500	M		510	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
AUG. 3	510	F	AUG. 5	520	F
	510	F		520	F
	510	F		520	F
	520	F		520	F
	520	F		520	F
	520	F		520	F
	520	M		520	F
	530	F		520	F
	530	F		520	F
	540	F		530	F
	540	F		530	M
	550	M		540	F
	550	M		540	F
	560	M		540	F
	570	M		540	M
	570	M		550	M
	570	M		550	M
	580	M		610	M
	590	M	AUG. 6	470	M
	600	M		470	M
AUG. 4	480	F		480	M
	480	F		490	F
	480	M		490	F
	490	F		490	M
	500	F		500	F
	500	F		500	F
	500	M		500	F
	500	M		500	F
	510	F		500	M
	520	M		510	F
	520	M		510	F
	520	M		510	M
	530	F		520	F
	530	F		520	M
	530	M		520	M
	530	M		540	F
	530	M		540	F
	550	F		540	F
	550	M		550	M
	550	M		560	M
	550	M		560	M
	560	M		570	M
	560	M		590	M
	570	M		490	F
	590	M		490	F
AUG. 5	490	F		490	F
	500	F		490	M
	500	M		500	F
	510	F		500	F
	510	F		510	F
	510	F		510	F
	510	F		510	F
	510	M		510	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
AUG. 7	510	M	AUG. 9	530	F
	520	F		530	F
	520	M		540	F
	530	F		540	F
	530	F		540	M
	530	F		550	F
	530	M		560	F
	540	F		560	M
	540	F		570	M
	540	M		580	M
	540	M		600	M
	550	M		600	M
	560	M		610	M
	570	M	AUG. 10	500	F
	590	M		510	F
	600	M		510	F
AUG. 8	480	M		520	F
	490	M		520	M
	500	M		520	M
	500	M		520	M
	510	F		530	F
	510	F		530	F
	510	F		540	F
	520	F		540	F
	520	F		540	F
	520	F		540	F
	520	M		540	F
	520	M		540	M
	520	M		540	M
	520	M		540	M
	530	M		540	M
	540	F		540	M
	540	M		550	M
	550	F		560	M
	550	M		570	M
	550	M		590	M
	550	M		590	M
	550	M		590	M
	550	M		590	M
	550	M		590	M
	560	M		600	M
	570	M	AUG. 11	460	F
	570	M		490	F
	580	M		490	F
AUG. 9	490	F		510	F
	490	F		520	M
	500	F		530	F
	500	F		530	F
	500	M		530	F
	500	M		530	F
	510	M		530	F
	520	F		530	F
	520	F		530	F
	520	M		530	M
	520	M		540	M

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
AUG. 11	540	M	AUG. 14	440	M
	550	F		460	F
	550	M		480	F
	550	M		490	F
	550	M		500	F
	560	M		510	F
	570	F		510	M
	580	M		520	F
	580	M		520	M
	580	M		520	M
	590	M		530	F
	620	M		530	F
AUG. 12	480	F		530	F
	490	F		530	M
	490	F		540	F
	490	M		540	F
	510	F		540	F
	510	F		540	M
	520	F		550	F
	520	F		550	F
	520	F		560	F
	520	F		560	M
	520	F		600	M
	520	F		610	M
	530	F		620	M
	530	F	AUG. 15	490	F
	530	F		490	F
	530	F		490	F
	530	F		510	F
	530	M		510	F
	530	M		510	F
	550	F		510	M
	550	F		520	F
	560	F		520	F
	560	M		520	M
	570	F		540	F
	580	M		540	F
AUG. 13	480	F		540	F
	510	F		540	F
	510	M		540	F
	520	F		540	M
	520	M		540	M
	550	F		540	M
	550	M		550	F
	550	M		560	M
	550	M		560	M
	550	M		570	M
	560	F		580	M
	570	M		580	M
	580	M		590	F
	580	M		590	M
	580	M	AUG. 16	500	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
AUG. 20	530	F	AUG. 22	530	F
	540	F		530	F
	540	F		530	F
	540	F		530	F
	540	F		540	F
	540	F		540	M
	540	F		550	F
	540	M		550	M
	540	M		550	M
	540	M		550	M
	550	F		570	M
	560	M		570	M
	560	M		570	M
	570	M		580	M
	570	M		590	M
	580	M		600	M
	590	M		600	M
	610	M		620	M
	610	M	AUG. 23	510	F
	630	M		520	M
AUG. 21	510	F		530	F
	510	F		530	F
	520	F		530	F
	520	F		530	F
	520	F		530	M
	520	F		540	F
	530	F		540	F
	530	F		540	M
	540	F		540	M
	540	F		550	F
	540	M		550	M
	550	F		580	M
	550	M		580	M
	550	M		580	M
	560	M		580	M
	580	M		590	M
	580	M		590	M
	580	M		590	M
	580	M		600	M
	580	M		600	M
	590	M		600	M
	600	M		600	M
	600	M		600	M
	610	M		610	M
	610	M	AUG. 24	470	F
	620	M		510	F
AUG. 22	490	F		520	F
	490	F		520	F
	510	F		520	F
	510	F		520	F
	520	F		520	M
	520	F		530	M
	520	F		540	F

Pink length and sex data.

DATE	NOSE FORK LENGTH	SEX	DATE	NOSE FORK LENGTH	SEX
AUG. 24	540	F	AUG. 27	580	M
	540	M		610	M
	540	M		620	M
	550	F		620	M
	550	F	AUG. 28	560	M
	550	M		580	F
	560	F	AUG. 29	530	M
	560	M		530	M
	580	M		540	F
	580	M		560	F
	580	M	AUG. 30	550	F
	580	M	SEPT 2	490	F
	590	M		510	F
AUG. 25	540	M		520	F
	550	M		520	F
	560	M		520	M
	560	M		530	M
	570	M		530	M
	580	M		540	M
AUG. 26	520	F		540	M
	520	F		550	M
	530	F		560	F
	530	F		570	M
	530	M		580	M
	540	M		580	M
	540	M		580	M
	540	M		590	M
	540	M		590	M
	550	M		590	M
	550	M		590	M
	560	M		600	M
	570	M		600	M
	580	M		610	M
	580	M		610	M
	580	M		610	M
	590	M		620	M
	590	M		620	M
	600	M		640	M
	600	M			
	600	M			
	610	M			
	610	M			
	620	M			
	620	M			
AUG. 27	470	F			
	500	F			
	530	F			
	540	F			
	560	F			
	570	M			
	570	M			
	570	M			

