

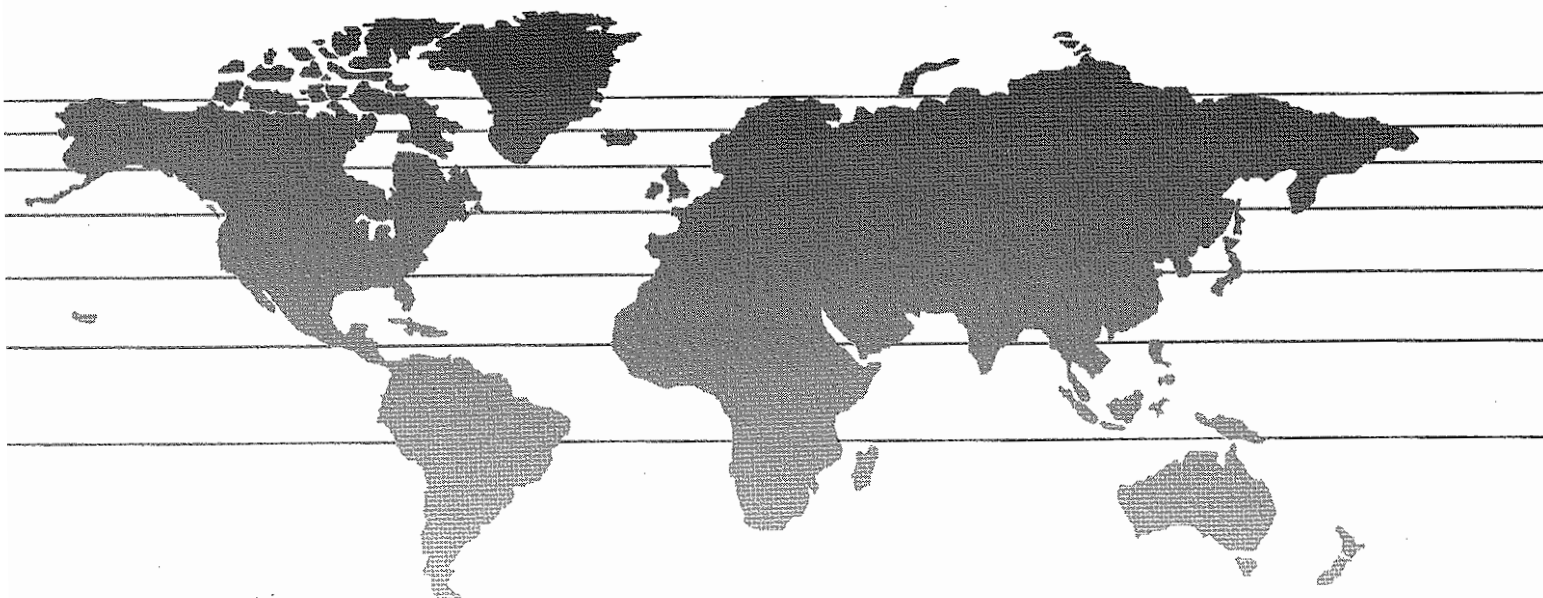
**SKEENA RIVER
SELECTIVE HARVEST MONITORING PROJECT 1995**

MORICETOWN

for

**Fisheries Branch
Ministry of Environment, Lands and Parks
Room 318 - 780 Blanshard Street
Victoria, B.C. V8V 1X5**

November 1996



LGL Limited environmental research associates

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SELECTIVE HARVEST MONITORING PROJECT 1995

MORICETOWN**

by

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in cooperation with the

Moricetown Band Office

and the

Office of the Wet'suwet'en Hereditary Chiefs

for

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INTRODUCTION

Selective Harvest Program

In an effort to quantitate and validate native fish harvests (food fishery harvests and excess salmon spawning requirement [ESSR] harvests) at Moricetown fishway, the Ministry of Lands and Parks, Fisheries Branch, provided funding to monitor and document fish harvests and releases in 1995. In association with the Gitksan and Wet'suwet'en Watershed Authorities (GWWA), catch monitoring has been conducted at various levels of intensity at Moricetown for several years (GWWA 1994; Morrell 1993; Barnes 1993; GWWA 1992). In 1992, an ESSR harvest of pink salmon took place at the fishway, with 75,000 harvested in three weeks. In 1993, a surplus of pink salmon was identified but, due to a lack of preparation and infrastructure, no harvest took place (Gellenbeck 1995). In 1994, a surplus was not identified. In 1995, a surplus was identified and an ESSR licence for 90,000 pink salmon was issued to the Wet'suwet'en to be harvested at Moricetown. Also in 1995, a concerted effort was made to monitor the majority of the catch and tag a large fraction of the releases.

Included with the ESSR licence were provisions that all steelhead and coho captured during the organized ESSR harvest be released. Some harvest for food did occur during the harvest that spanned eight days (12 August through 20 September), but most effort was focused on the commercial harvest.

Study Design

The Moricetown selective harvest monitoring program was part of a larger project that included the monitoring of harvests and releases from fishwheel captures at Kitselas Canyon (see Nelson et al. 1996). Specifically, the following nine task/services were defined for the entire project:

1. Recruit Band members in Moricetown and Kitselas to assist with fishing and monitoring activities.
2. Conduct adequate training to ensure that all technicians follow standardized procedures for fish handling, catch monitoring, data recording and reporting.
3. Provide adequate logistic and technical support for recruiting, training, monitoring, equipment maintenance, communication, transportation, emergency response, data analysis and reporting.

4. Ensure that all technicians have sufficient diplomatic tact and communication skills to maintain good relations with the Band members, the general public and other biologists involved.
5. Ensure there is sufficient flexibility in operations to adapt to uncertain schedules.
6. Conduct on-site monitoring of fishwheel operations by assisting the Kitselas band members with fishwheel installation, maintenance and sockeye harvesting throughout the harvest period.
7. Conduct on-site monitoring of the gaffing and dip-netting operations at the Moricetown fishway by local band members throughout the harvest period.
8. Maintain daily records of the catch composition, apparent losses and losses and injuries, and various environment factors that could affect the effectiveness of both harvest methods.
9. Conduct tagging and bio-sampling of all steelhead released at the Moricetown fishway.

This report summarizes biophysical data, tag release and recapture data, and harvest and release data collected by monitors from the Moricetown Band from 29 June through 20 October, and by LGL Limited from 8 August through 30 October. Information for the selective harvest monitoring program at Kitselas Canyon can be found in Nelson et al. (1996).

Study Area

Moricetown fishway is located on the Bulkley River approximately 40 km upstream from the mouth of the Bulkley River (at the Skeena River) and 35 km downstream of Smithers. The fishway provides upstream passage around a set of falls to anadromous species of fish. The fishway site itself is a traditional fishing site for the Wet'suwet'en people.

The Bulkley River originates in the drainages above Maxan and Bulkley lakes, southeast of Houston. It flows northwest to its junction with the Morice River, which enters from the west and drains both Morice and Nanika lakes. The Morice River provides the highest proportion of total discharge to the Bulkley system. Other systems that enter the Bulkley are the Telkwa River, Toboggan Creek, and the Suskwa River.

The Bulkley River is part of the Skeena River system, which drains 51,200 km² and is the second largest watershed in British Columbia (Fig. 1a). The Skeena River originates in

the Skeena Mountains and flows south and southwest for 530 km. It empties into Chatham Sound (Statistical Area 4) on the north coast of British Columbia (Fig. 1b). There is considerable variation in the flow rates depending on the season and weather conditions. Average mean monthly flow at Usk is 950 m³/sec with a spring freshet between mid-May and the end of June (Hoos 1975) and lowest flows during March. Maximum flow rates during the spring freshet are about three times average flow rates and minimum rates during March are about one sixth of mean rates.

The Skeena River enters Chatham Sound and Hecate Strait via a series of passages and channels between several islands lying off the river mouth. About 25% of the flow moves through Inverness Passage while the remaining 75% of the flow is divided nearly equally between Marcus and Telegraph passages.

Skeena Fishery Overview

The Skeena River supports significant populations of chinook (*Oncorhynchus tshawytscha*), sockeye (*O. nerka*), coho (*O. kisutch*), chum (*O. keta*), and pink salmon (*O. gorbuscha*) and steelhead (*O. mykiss*). Local salmon stocks are harvested in major commercial net fisheries, native fisheries and sport fisheries within and adjacent to the Skeena River. Details on the historical and current management of these fisheries can be found in a variety of reports (the best sources being: PRSSMP 1986; Sprout and Kadowaki 1987; Cox-Rogers 1994; and Anon. 1988).

Fisheries descriptions, adapted from the above-mentioned reports, are provided in the accompanying Skeena River selective harvest monitoring report (Nelson et al. (1996); these descriptions include information regarding commercial fisheries, sport fisheries, and U.S. (interception) fisheries that exploit Skeena River stocks. Provided here is a description of native traditional fisheries of the Skeena River, with a focus on the Moricetown fisheries.

Native Traditional Fisheries

Traditionally native fisheries have been managed on a sub-district basis to meet the food, social and ceremonial needs of the local First Nation communities. The method of fishing generally differs depending on access to the resource. The coastal communities participate in the offshore areas using commercial gillnet gear, while non-coastal tribes generally use river gillnets, fishwheels, dipnets or gaffs. Currently, native fishery allocations are determined on an annual basis through consultations with each native band and the Skeena Watershed Committee.

The major marine native fishery in the region is the gillnet fishery in Area 4. The fishery is open to one local band (Metlakatla), by band licence and on an individual basis to

any native of Canada. The fishery targets sockeye and chinook salmon returning to the Skeena River. The fishery has been managed in recent years starting in the third week of May with two days of fishing per week and reducing to one day/week or less in the first week of June. Fishing continues until the sockeye allocation is taken or the sockeye run has passed, late July in recent years. When fishery re-opens for three weeks of fishing from late August to mid-September, the target is coho and chum salmon and the opening period is two days/week. There are no net restrictions and fishermen generally use large mesh nets until sockeye arrive in strength.

Major freshwater native fisheries occur throughout the Skeena watershed. In the lower Skeena (Terrace sub-district), the Kitsumkalum and Kitselas bands target chinook, sockeye and coho sequentially from late May through the end of October. The Kitsumkalum Band fishes from the tidal boundary to the power line at the foot of Eby Street in Terrace. The Kitselas Band fishes from the power line up to Ketoneda.

Seven of eight Gitksan Wet'suwet'en food fisheries on the Skeena, Bulkley and Babine rivers occur within the Hazelton sub-district. Fishing generally starts in mid-May targeting chinook with large mesh gillnets, with an incidental catch of steelhead kelts. Sockeye are targeted from July through September, and this fishery uses small-mesh gill nets.

The major food fisheries in the Smithers sub-district are conducted by the Babine Lake Band and the Moricetown Band (the eighth Gitksan Wet'suwet'en band). The food fishery for the Babine Lake Band takes place in Nilkitkwa Lake, targeting sockeye using set and drift gillnets from mid-July through early September.

The Moricetown Traditional Fishery

The oldest traditional fisheries at Moricetown Canyon utilized fish traps and spears to capture migrating salmon and steelhead (GWWA 1994). In 1906, the Barricades Agreement banned the use of traps and weirs, but allowed the use of gaffs and gill nets. The fishway (fish ladders) at Moricetown Canyon, installed in the 1950's, provided platforms that complimented the use of gaffs and jigs for capturing migrating salmonids (GWWA 1994). The dip net was promoted during the early 1980's by Wet'suwet'en chiefs in an effort to reduce the loss (and injury) rate due to gaffs and jigs (Morrell 1985).

The current fishery at Moricetown targets migrating salmon and steelhead accumulate at the falls at the location of the fishway. Dipnet and gaff fishermen position themselves at strategic locations near the base of the falls and at the base of the fishway, and work their long-handled dipnets and gaffs through small areas of water that have high concentrations of fish. Captured fish are either brought up on to the rocks or fishway platforms or, if the fish are not desired by the fishermen, returned immediately to the water. Fish that are captured

dipnet gear are typically in good condition; thus, dipnet gear has been the method of choice for any fisheries programs conducted at Moricetown that involve tagging and release.

The Moricetown fishery begins in early July (depending on water conditions), and is primarily a gaff and dipnet fishery at Moricetown fishway that targets chinook, coho, sockeye and steelhead (food fishery) and pink salmon (commercial fishery). The food fishery is officially open year round but fishing effort after mid-October is minimal.

METHODS

Gear Types

Fish capture at Moricetown fishway in 1995 was conducted using one of two methods, gaffing or dipnetting. Gaffs were typically constructed of wooden handles with a large steel hook (gaff) mounted at one end. Gaffs were typically fished in a vertical position, the actual gaffing taking place following a strong upward pull. Gaffs are the preferred gear type for large chinook because these fish can be difficult to capture in dipnets (due to their size, large chinook tended to hit the frame of dipnet and subsequently escape).

The second and most popular gear type used at Moricetown was the dipnet. Dipnet hoops were typically constructed of 5/8-inch aluminum pipe and nylon netting, and mounted on strengthened aluminum poles from 8 - 16 feet in length (Gellenbeck 1995). Dipnets were also fished in a vertical position, but "scoops" were made so as to capture fish that were holding in areas beneath the fisherman. Once the fisherman finished a "scoop," he would pull straight up on the handle and work the handle up hand over hand so to close the mesh bag of the net and trap any fish inside. If a fisherman did not feel the excess weight of fish in the net after the first one or two pulls, he would likely push the net back down and position himself for another scoop.

Wooden ladders were constructed on the west side of the fishway to allow fishermen to access rocks at the base of the falls. From these rocks, fishermen could target concentrations of fish that were staged to attempt upstream passage or resting prior to another attempt. Other fishing sites at the fishway included the concrete platforms directly above the entrance to the fishway ladders on both the east and west side of the river.

Harvest Monitoring

A summary of harvest monitoring and other activities at Moricetown, by date, is provided in Table 1. Monitoring activities in 1995 commenced on 29 June and continued through 20 October. For each hour of monitoring, monitors recorded the number of anglers

fishing and all catch and release by gear type and species ("release" includes both lost and returned fish). Monitoring of the food fishery at Moricetown was generally conducted in one-hour intervals with a separate data sheet being filled out for each hour monitored. When a monitor could not start at the beginning of an hour, the actual start time was recorded. Initially, monitoring was conducted from 06:00 to 22:00 with that period divided into two eight-hour shifts (06:00 to 14:00 and 14:00 to 22:00). As daylight hours and fishing pressure decreased through the season, the hours monitored were gradually reduced. On 31 August the monitoring period was first changed to 07:00 to 21:00. By 1 October, hours monitored were greatly reduced due to the lack of fishing.

During the month of June and part of July the dipnet fishery in the canyon was monitored alternately with an angling fishery below the canyon at Idiot Rock, located approximately 500 m downstream of the fishway. By 12 July, all monitoring was focused on the dipnet fishery.

With the exception of a period from 12-31 August, monitoring of the dipnet fishery for both sides of the canyon was conducted by a single monitor per shift. When there was fishing activity on only one side of the canyon, the monitor would station himself/herself at that location. When there was fishing activity on both sides of the canyon the monitor was usually positioned on the western bank where they could observe all fishing activity. When a fisher on the opposite bank from the monitor caught a fish, the species was communicated from the fisher to the monitor via hand signals. The noise of the falls prevented any verbal communication across the canyon. Fishers were generally very cooperative with reporting their catch and giving any tag or adipose clip information to the monitor.

From 13-31 August there were two monitors in the canyon per shift, one on each side. The need for one monitor on each side of the canyon was identified due to an increase in fishing effort from the commercial pink salmon harvest that occurred from 12-27 August. The Moricetown band was given an ESSR license in 1995 to harvest 90,000 pink salmon for commercial sale. During the 12-20 August commercial harvest monitors did not count the number of pinks harvested; however, monitors did count pinks released (due to large humps on males or damaged fish). A condition of the ESSR license was that all steelhead and coho captured during the commercial sales period from 12-20 August would be released. Pink harvest numbers for the 12-20 August time period were counted by the harvesting crews and provided by Bernie Gellenbeck of the Wet'suwet'en Treaty Office, Lands and Resources Department. Pink harvests for roadside public sales from 21-27 August were counted by harvest monitors documenting the food fishery.

In addition to harvest monitoring, monitors collected water temperature and water level data at the upstream end of the fishway on the west bank of the river.

Tagging and Biosampling

During harvest periods, native food fishermen provided some of the fish they captured to a tagging crew. The tagging program was conducted by the Office of the Wet'suwet'en Hereditary Chiefs with the exception of assistance by LGL personnel during the radio tagging of coho and some parts of the tagging of steelhead. The anchor-tagging program was conducted to collect information regarding mortalities associated with the catch-and-release method using dipnets and escapement information for some of the species during spawning surveys. The radio tagging of coho was conducted as a separate study for DFO to examine the behaviour and spawning success of coho captured at the falls using dipnets.

Anchor-tagging Procedures

Sockeye, pink, coho and chinook salmon, as well as steelhead were opportunistically tagged with a single anchor tag. From 15 July to 15 September, fish were caught in dipnets below the falls and at the mouth of the fishway, on the west side of the river, and were transferred to a tagging trough and tagged with a single, orange, Skeena Fisheries Commission anchor tag. Two different tagging trays were used for tagging. The first tagging tray was used from 15 July to 24 August and consisted of a V-shaped, rubberized trough that was moistened before tagging. The second tagging tray was used from 25 August to 15 September and consisted of a padded V-shaped trough filled with water. Fish that were immersed in water generally became calm. This made handling easier and reduced the likelihood of fish being injured. Fish were not anaesthetized because some were likely to be caught by an in-river fishery and the effects of the available anaesthetics on the edibility of the fish are unknown. From 25 August to 15 September, Polyaqua®, a professional water conditioner, was added to the water of the tagging tray to reduce scale loss and the possibility of infection.

Processing included tagging each fish with a single anchor tag; measuring the fish (nose-fork length); noting the sex and condition of the fish; and for steelhead, removing about one third of the adipose fin. Tagged fish were released downstream of the falls from 15 July to 25 August. From the 25 August to 15 September, tagged coho and steelhead were released into a natural holding pool (approximately 2 m deep) and allowed to recover from tagging before "battling" the strong canyon currents. Fish were free to migrate upstream of the holding pool at any time. A block net was placed at the downstream end of the holding pool until dusk. Processing of each individual fish generally took less than one minute. Adipose tissue was placed in alcohol-filled vials and stored in a freezer for later stock identification analyses.

Radio-tagging Procedures

All healthy coho longer than 55 cm (nose-fork length) that were opportunistically captured on the west side of the Moricetown fishway were tagged with radio transmitters (model CFRT-3A) from 25 August - 15 September.

Processing included tagging each fish with one or two white anchor tags; measuring the fish (nose-fork length); noting the sex and presence of scars or marks; removing about one third of the adipose fin; and placing a radio tag down the throat and into the stomach of the fish with the antenna protruding from the corner of its mouth. The antenna was bent at the corner of the mouth so that the protruding section of the antenna trailed along the side of the fish. The anchor tag number and the frequency and coded signal of the radio tag were recorded for each individual fish. Processing of each individual fish generally took less than two minutes. Radio-tagged coho were released into the natural holding pool and allowed to recover. Adipose tissue was placed in alcohol-filled vials and stored in a freezer for later stock identification analyses.

RESULTS

Biophysical Observations

Water temperature and water level data at Moricetown fishway, recorded by harvest monitors on most days between 7 July and 23 September 1995, is presented in Appendix A. During this period, the mean water temperature was 13.6° C, with a maximum water temperature of 19.5° C and a minimum water temperature of 8.0° C. Water levels during the period (measured from a staff gauge positioned at the upstream end of the fishway) averaged 2.09 m, with a maximum water level of 3.66 m and a minimum water level of 1.00 m. An illustration of daily water temperatures and levels at Moricetown fishway is presented in Fig. 2.

Tagging

Anchor Tagging

Appendix B provides the anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995. Also provided is a summary of anchor tag and radio tag releases, and recaptures of all tags, at Moricetown, by statistical week and species (Table 2).

Radio Tagging

Radio tags were applied to 19 coho at Moricetown fishway, as part of a separate DFO study, from 25 August to 15 September 1995 (Appendix C). One radio-tagged coho was harvested at the falls during food fishing activities on 17 September. A total of 12 (63%) radio-tagged coho were tracked to a spawning location. Specific details of the radio-tagging study will be reported elsewhere.

Harvest Monitoring

Steelhead

All monitored steelhead catch and release data from 29 June - 20 October 1995, by gear type and date, is provided in Appendix D. Table 3 presents a summary of the steelhead catch and release data by statistical week. In total, 988 steelhead were captured at Moricetown during the hours monitored from 29 June - 20 October 1995. Of these, 18 (2%) were captured by gaff and 970 (98%) were captured by dipnet (Fig. 3). A total of 410 (41%) of the steelhead were harvested and 578 (59%) were released.

Chinook

Catch and release data for chinook, from 29 June - 20 October 1995, by gear type and date, is provided in Appendix E. Table 4 presents a summary of the chinook catch and release data by statistical week. In total, 1109 chinook were captured at Moricetown during the hours monitored from 29 June - 20 October 1995. Of these, 529 (48%) were captured by gaff and 580 (52%) were captured by dipnet (Fig. 4). A total of 854 (77%) of the chinook were harvested and 255 (23%) were released.

Coho

Catch and release data for coho, from 29 June - 20 October 1995, by gear type and date, is provided in Appendix F. Table 5 presents a summary of the coho catch and release data by statistical week. In total, 754 coho were captured at Moricetown during the hours monitored from 29 June - 20 October 1995. Of these, 39 (5%) were captured by gaff and 715 (95%) were captured by dipnet (Fig. 5). A total of 531 (70%) of the coho were harvested and 223 (30%) were released.

Sockeye

Catch and release data for sockeye, from 29 June - 20 October 1995, by gear type and date, is provided in Appendix G. Table 6 presents a summary of the sockeye catch and

release data by statistical week. In total, 16,771 sockeye were captured at Moricetown during the hours monitored from 29 June - 20 October 1995. Of these, 376 (2%) were captured by gaff and 16,395 (98%) were captured by dipnet (Fig. 6). A total of 15,917 (95%) of the sockeye were harvested and 854 (5%) were released.

Pink Salmon

Catch and release data for pink salmon, from 29 June - 20 October 1995, by gear type, harvest type (for dipnet only; food or ESSR) and date, is provided in Appendix H. Table 7 presents a summary of the pink salmon catch and release data by statistical week. In total, 110,897 pink salmon were captured at Moricetown during the hours monitored from 29 June - 20 October 1995. Of these, 87 (<1%) were captured by gaff and 110,810 (>99%) were captured by dipnet (Fig. 7). A total of 90,321 (81%) of the pink salmon were harvested and 20,576 (19%) were released. Of the pink salmon harvested, 90,000 were taken under an ESSR licence and 321 were taken as food fish.

DISCUSSION

The selective harvest monitoring program at Moricetown in 1995 was highly successful in recording applied fishing efforts and successes, by gear type and species, for over 16 consecutive statistical weeks from 29 June - 20 October. A concerted monitoring effort was applied during the 8-day commercial harvest of pink salmon, wherein the majority of all steelhead and coho captured were released. In addition, over 1800 fish of mixed species were tagged and biosamples (length, sex, scales, and DNA samples) were collected from over 200 steelhead and coho.

Monitoring efforts were high in 1995 in comparison with previous years' monitoring efforts (GWWA 1993). An analysis of monitored survey effort versus monitored CPUE (catch per fisherman hour) for all species indicates that survey effort was adequate and tended to follow CPUE trends (Fig. 8).

Table 8 provides an estimate of survey coverage per statistical week, based on the hours of observation (monitoring) per statistical week, and the average number of available hours for fishing per statistical week. The calculation of survey hours uses the number of unique daily hours that were monitored per statistical week; for a single (unique) hour in which two fisheries monitors recorded observations, only the one hour of monitoring is added to the weekly sum. The number of available hours of fishing is based on the average number of hours between sunrise and sunset per statistical week; although some fishing did occur prior to sunrise and after sunset on some occasions, this effort was estimated to be minimal. Morrell (1993) used total daylight hours to derive available fishing hours at Moricetown in

1985, and concluded that the final estimates of total effort were biased high. Our use of average available fishing hours based on sunrise and sunset times likely produces an overestimate of effort over the entire monitoring period, although the overestimate is likely not as high as if total daylight hours had been used. The potential overestimate of effort in our method is primarily because fishing efforts were not evenly distributed during all hours between sunrise and sunset, but rather lumped in the mid-morning hours through the late afternoon, especially from mid-September through the end of monitoring in October.

Table 8 also provides an expansion factor, by statistical week, to account for available fishing hours not monitored. This expansion factor is applied to the monitored harvest and release data, by statistical week, by species, for harvest (both dipnet and gaff) and release data, to produce total catch estimates during the period of monitoring at Moricetown in 1995, by species (Tables 9-13). Table 9 provides the estimated numbers of steelhead captured, by statistical week; the total estimated catch of 1094 steelhead is 9.7% greater than the monitored catch of 988 steelhead. The estimated harvest of 463 steelhead is 11.4% greater than the monitored harvest of 410 steelhead (Table 9). Tables 10, 11, 12, and 13 provide catch and harvest estimates for chinook, coho, sockeye, and pink salmon, respectively.

The monitored catch (all species) at Moricetown in 1995 was highly correlated with the CPUE (monitored catch per fisherman hour; Fig. 9). Catch efficiency of the fishery indicates that catch reflects relative abundance for target species, as fishing effort is directed at the capture of these species.

ACKNOWLEDGEMENTS

The success of this study was a tribute to the hard work and diligence of a large number of people. We thank Ted Down (MELP, Victoria), Bob Hooton (MELP, Smithers), and Karl English (LGL Limited, Sidney) for the coordination and direction of the 1995 Skeena River selective harvest monitoring program.

Everyone working on the 1995 Skeena River selective harvest monitoring program contributed to the success of this study and we thank them all. We would like to thank the Office of the Wet'suwet'en Hereditary Chiefs, especially Gary George, for the coordination of all Moricetown fishway activities. We appreciate the hard work of the Moricetown catch monitors, Gordie Madame, Leslie Morris, Gladys Nazelle, Thomas Nazelle, Clayton Michell, Angie Gagnon, and Sandra Patrick. Additional thanks to the Moricetown tagging crew, Gary Mckinnon Jr., Scott Moyles and Lloyd Morris, and to Benna Rathburn for all catch and tag data entry from the Moricetown fishway. Gord Waddley also helped in the coordination of all tagging activities. Special thanks to Bernie Gellenbeck (Fishery Manager, OWHC) and to all the Moricetown fishers for their cooperation in providing the catch and harvest information during their fishing activities.

Other acknowledgements are to Sandra Miller for data entry checking. Tony Mochizuki of LGL assisted with data compilation, computations, and analyses.

Funding for this project was provided by the Greenplan Program and the Habitat Conservation Fund.

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TABLES

Table 1. Summary of monitoring, tagging, and harvesting activities, by date, at Moricetown, 1995.

Date	Activity
29/06/95	Commencement of harvest monitoring activities
14-18/07/95	Seining efforts to collect specimens for anchor tagging
19/07/95	Anchor tagging of all species at dipnet sites
12/08/95	Start of commercial pink harvest, mandatory release of all steelhead and coho; monitors recording pink releases but not harvest
16/08/95	Started two monitors per shift
20/08/95	End of pink harvest for commercial sales (18:45); harvest of pink salmon for roadside sales is monitored
22/08/95	Started angling for coho to radio tag at Idiot Rock
24/08/95	Ended angling for coho to radio tag at Idiot Rock
24/08/95	Started dipnetting for coho to radio tag in canyon
25/08/95	First coho radio tagged
27/08/95	End of pink harvest for roadside sales
31/08/95	Ended two monitors per shift
6-12/09/95	No anchor tagging for steelhead
14/09/95	Last coho radio tagged
15/09/95	Last day of fishing effort for tagging purposes
20/10/95	Last day of monitoring for season

Table 2. Summary of anchor tag and radio tag releases from Moricetown, and recaptures of all tags at Moricetown, by statistical week and species, 1995. (a)

Stat week	Monitored fisherman hours (b)	Species														
		Steelhead (c)		Chinook adults		Chinook jacks		Coho (d)(e)		Sockeye		Pink salmon		Total		
		Tagged	Recaps	Tagged	Recaps	Tagged	Recaps	Tagged	Recaps	Tagged	Recaps	Tagged	Recaps	Tagged	Recaps	
26	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	320	0	0	0	0	0	0	0	0	1	1	0	0	1	1	
29	631	0	0	2	0	2	0	0	0	346	14	5	0	355	14	
30	496	1	0	2	0	8	0	1	0	412	6	163	3	587	9	
31	504	6	0	1	0	4	0	3	0	307	6	94	0	415	6	
32	635	3	1	0	0	0	1	4	0	31	5	269	1	307	8	
33	784	11	2	11	0	0	0	12	0	18	1	0	2	52	5	
34	379	68	2	2	0	0	0	27	0	9	0	0	0	106	2	
35	203	30	2	0	1	0	0	2	1	0	0	0	0	32	4	
36	197	1	3	0	0	0	0	7	0	0	0	0	0	8	3	
37	194	18	3	0	0	0	0	9	1	0	0	0	0	27	4	
38	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
41	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
42	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Totals	4759	138	14	18	1	14	1	65	2	1124	33	531	6	1890	57	

(a) Data presented are for tag releases and recaptures at Moricetown only; not included here are the following recaptures of fish anchor tagged at Moricetown:

- 1) five steelhead angled and released in the Bulkley River; 2) one steelhead recovered near Kitselas Canyon; and 3) one sockeye recovered from a Kitselas fishwheel
- (b) Monitored fisherman hours represents total monitored effort applied for all gear types
- (c) Recaptures include two steelhead that were anchor tagged in 1993 and one radio-tagged steelhead that was tagged and released at the Kitselas Canyon fishwheels
- (d) The number tagged includes 19 coho that were both radio tagged and anchor tagged
- (e) Recaptures include one radio-tagged coho that was tagged and released at Moricetown

Table 3. Monitored harvest and release summary for steelhead, by statistical week and gear type, at Moricetown fishway from 29 July - 20 October 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch - Steelhead										
			Number steelhead gaffed			Number steelhead dipnetted			Number steelhead gaffed/dipnetted				
			Harvested	Released	Total	Harvested	Released	Total	Harvested	Released	Total		
26	01/07/95	9	0	0	0	0	0	0	0	0	0	0	0
27	08/07/95	211	0	0	0	0	0	0	0	0	0	0	0
28	15/07/95	320	0	0	0	0	0	0	0	0	0	0	0
29	22/07/95	631	0	0	0	4	2	6	4	2	6	4	2
30	29/07/95	496	0	0	0	2	1	3	2	1	3	2	1
31	05/08/95	504	4	0	4	21	10	31	25	10	35	25	10
32	12/08/95	635	2	2	4	23	44	67	25	46	71	25	46
33	19/08/95	784	3	1	4	6	175	181	9	176	185	9	176
34	26/08/95	379	1	1	2	85	142	227	86	143	229	86	143
35	02/09/95	203	0	0	0	79	66	145	79	66	145	79	66
36	09/09/95	197	2	0	2	67	80	147	69	80	149	69	80
37	16/09/95	194	0	1	1	52	42	94	52	43	95	52	43
38	23/09/95	104	1	0	1	26	4	30	27	4	31	27	4
39	30/09/95	63	0	0	0	30	0	30	30	0	30	30	0
40	07/10/95	18	0	0	0	2	1	3	2	1	3	2	1
41	14/10/95	9	0	0	0	0	6	6	0	6	6	0	6
42	21/10/95	4	0	0	0	0	0	0	0	0	0	0	0
Totals		4759	13	5	18	397	573	970	410	578	988	410	578

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

Table 4. Harvest and release summary for chinook, by statistical week and gear type, at Moricetown fishway from 29 July - 20 October 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch - Chinook								
			Number chinook gaffed			Number chinook dipnetted			Number chinook gaffed/dipnetted		
			Harvested	Released	Total	Harvested	Released	Total	Harvested	Released	Total
26	01/07/95	9	2	1	3	0	0	0	2	1	3
27	08/07/95	211	34	9	43	18	1	19	52	10	62
28	15/07/95	320	22	9	31	7	1	8	29	10	39
29	22/07/95	631	103	13	116	22	0	22	125	13	138
30	29/07/95	496	71	10	81	15	1	16	86	11	97
31	05/08/95	504	98	37	135	61	5	66	159	42	201
32	12/08/95	635	68	31	99	62	8	70	130	39	169
33	19/08/95	784	3	0	3	117	17	134	120	17	137
34	26/08/95	379	7	4	11	62	23	85	69	27	96
35	02/09/95	203	2	0	2	32	18	50	34	18	52
36	09/09/95	197	3	1	4	24	26	50	27	27	54
37	16/09/95	194	1	0	1	20	35	55	21	35	56
38	23/09/95	104	0	0	0	0	5	5	0	5	5
39	30/09/95	63	0	0	0	0	0	0	0	0	0
40	07/10/95	18	0	0	0	0	0	0	0	0	0
41	14/10/95	9	0	0	0	0	0	0	0	0	0
42	21/10/95	4	0	0	0	0	0	0	0	0	0
Totals		4759	414	115	529	440	140	580	854	255	1109

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

Table 5. Harvest and release summary for coho, by statistical week and gear type, at Moricetown fishway from 29 July - 20 October 1995.

Stat week	Week ending	Monitored	Monitored Catch - Coho									
		fisherman hours (a)	Number coho gaffed			Number coho dipnetted			Number coho gaffed/dipnetted			
			Harvested	Released	Total	Harvested	Released	Total	Harvested	Released	Total	
26	01/07/95	9	0	0	0	0	0	0	0	0	0	0
27	08/07/95	211	0	0	0	0	0	0	0	0	0	0
28	15/07/95	320	0	0	0	0	0	0	0	0	0	0
29	22/07/95	631	0	0	0	0	3	3	0	3	3	3
30	29/07/95	496	0	0	0	1	0	1	1	0	1	1
31	05/08/95	504	2	0	2	24	0	24	26	0	26	26
32	12/08/95	635	8	0	8	41	17	58	49	17	66	66
33	19/08/95	784	1	0	1	7	105	112	8	105	113	113
34	26/08/95	379	0	0	0	136	53	189	136	53	189	189
35	02/09/95	203	0	0	0	114	8	122	114	8	122	122
36	09/09/95	197	16	2	18	91	12	103	107	14	121	121
37	16/09/95	194	7	3	10	52	18	70	59	21	80	80
38	23/09/95	104	0	0	0	18	2	20	18	2	20	20
39	30/09/95	63	0	0	0	13	0	13	13	0	13	13
40	07/10/95	18	0	0	0	0	0	0	0	0	0	0
41	14/10/95	9	0	0	0	0	0	0	0	0	0	0
42	21/10/95	4	0	0	0	0	0	0	0	0	0	0
Totals		4759	34	5	39	497	218	715	531	223	754	754

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

Table 6. Harvest and release summary for sockeye, by statistical week and gear type, at Moricetown fishway from 29 July - 20 October 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch - Sockeye									
			Number sockeye gaffed			Number sockeye dipnetted			Number sockeye gaffed/dipnetted			
			Harvested	Released	Total	Harvested	Released	Total	Harvested	Released	Total	
26	01/07/95	9	0	0	0	0	0	0	0	0	0	0
27	08/07/95	211	65	5	70	569	13	582	634	18	652	
28	15/07/95	320	10	3	13	834	8	842	844	11	855	
29	22/07/95	631	67	24	91	3595	89	3684	3662	113	3775	
30	29/07/95	496	41	4	45	2935	138	3073	2976	142	3118	
31	05/08/95	504	44	6	50	3649	188	3837	3693	194	3887	
32	12/08/95	635	87	16	103	2168	71	2239	2255	87	2342	
33	19/08/95	784	3	0	3	1479	181	1660	1482	181	1663	
34	26/08/95	379	0	0	0	289	83	372	289	83	372	
35	02/09/95	203	0	0	0	59	5	64	59	5	64	
36	09/09/95	197	1	0	1	22	7	29	23	7	30	
37	16/09/95	194	0	0	0	0	12	12	0	12	12	
38	23/09/95	104	0	0	0	0	1	1	0	1	1	
39	30/09/95	63	0	0	0	0	0	0	0	0	0	
40	07/10/95	18	0	0	0	0	0	0	0	0	0	
41	14/10/95	9	0	0	0	0	0	0	0	0	0	
42	21/10/95	4	0	0	0	0	0	0	0	0	0	
Totals		4759	318	58	376	15599	796	16395	15917	854	16771	

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

Table 7. Harvest and release summary for pink salmon, by statistical week, gear type, and harvest type (for dipnet only; food or ESSR), at Moricetown fishway from 29 July - 20 October 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch - Pink Salmon										
			Number pink salmon gaffed			Number pink salmon dipnetted				Number chinook gaffed/dipnetted			
			Harvested			Harvested				Harvested			
			Harvested	Released	Total	Food	ESSR	Released	Total	Food	ESSR	Released	Total
26	01/07/95	9	0	0	0	0	0	0	0	0	0	0	0
27	08/07/95	211	0	0	0	0	0	0	0	0	0	0	0
28	15/07/95	320	0	0	0	0	0	0	0	0	0	0	0
29	22/07/95	631	0	0	0	1	0	87	88	1	0	87	88
30	29/07/95	496	0	2	2	67	0	1328	1395	67	0	1330	1397
31	05/08/95	504	4	6	10	57	0	2504	2561	61	0	2510	2571
32	12/08/95	635	24	37	61	45	1000	3127	4172	69	1000	3164	4233
33	19/08/95	784	7	1	8	0	77666	5850	83516	7	77666	5851	83524
34	26/08/95	379	0	3	3	0	10528	3631	14159	0	10528	3634	14162
35	02/09/95	203	0	0	0	44	806	2147	2997	44	806	2147	2997
36	09/09/95	197	0	2	2	64	0	1412	1476	64	0	1414	1478
37	16/09/95	194	0	1	1	2	0	347	349	2	0	348	350
38	23/09/95	104	0	0	0	5	0	72	77	5	0	72	77
39	30/09/95	63	0	0	0	1	0	19	20	1	0	19	20
40	07/10/95	18	0	0	0	0	0	0	0	0	0	0	0
41	14/10/95	9	0	0	0	0	0	0	0	0	0	0	0
42	21/10/95	4	0	0	0	0	0	0	0	0	0	0	0
Totals		4759	35	52	87	286	90000	20524	110810	321	90000	20576	110897

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

Table 8. Summary of survey effort (hours), and formulation of an expansion factor, for monitored fishing effort at Moricetown Fishway, by stat week, 1995.

Stat week (a)	Survey hours (b) (A)	Available (daylight) hours (c) (B)	Percent survey coverage (C) = (A/B) * 100	Expansion factor (D) = 1 / (A/B)	Monitored fishermen hours (d) (E)	Expanded fishermen hours (F) = E * D
26	11.0	48.0	22.9%	4.36	9	39.3
27	64.3	112.0	57.4%	1.74	211	368.2
28	62.0	112.0	55.4%	1.81	320	577.2
29	68.8	112.0	61.4%	1.63	631	1028.4
30	71.5	112.0	63.8%	1.57	496	776.2
31	84.5	112.0	75.4%	1.33	504	668.0
32	95.0	119.0	79.8%	1.25	635	795.4
33	125.7	119.0	100.0% (e)	1.00 (e)	784	784.0
34	108.5	115.5	93.9%	1.06	379	403.3
35	95.0	112.0	84.8%	1.18	203	239.3
36	97.1	105.0	92.4%	1.08	197	212.8
37	84.4	98.0	86.1%	1.16	194	224.7
38	86.5	91.0	95.1%	1.05	104	109.4
39	84.3	84.0	100.0% (e)	1.00 (e)	63	62.7
40	77.4	84.0	92.2%	1.09	18	19.5
41	62.8	77.0	81.6%	1.23	9	10.8
42	57.6	66.0	87.2%	1.15	4	4.6

(a) Stat week 26 represents 3 days only; stat week 42 represents 6 days only; all other stat weeks represent 7 days

(b) Number of unique daily hours of observation by fish monitors per stat week

(c) The average number of available (daylight) hours of fishing time per stat week (based on sunrise and sunset)

(d) Number of fisherman hours recorded by fish monitors per stat week

(e) When the number of hours surveyed exceeded the number of available (fishing) hours, the survey coverage is presented as 100% and the expansion factor is 1.00

Table 9. Estimated numbers of steelhead captured, harvested, and released, by stat week, at Moricetown Fishway, 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch (b)			Expansion factor (c)	Expanded fisherman hours (c)	Estimated Catch (d)		
			Number steelhead gaffed/dipnetted					Number steelhead gaffed/dipnetted		
			Harvested	Released	Total			Harvested	Released	Total
26	01/07/95	9	0	0	0	4.36	39	0	0	0
27	08/07/95	211	0	0	0	1.74	368	0	0	0
28	15/07/95	320	0	0	0	1.81	577	0	0	0
29	22/07/95	631	4	2	6	1.63	1028	7	3	10
30	29/07/95	496	2	1	3	1.57	776	3	2	5
31	05/08/95	504	25	10	35	1.33	668	33	13	46
32	12/08/95	635	25	46	71	1.25	795	31	58	89
33	19/08/95	784	9	176	185	1.00	784	9	176	185
34	26/08/95	379	86	143	229	1.06	404	92	152	244
35	02/09/95	203	79	66	145	1.18	239	93	78	171
36	09/09/95	197	69	80	149	1.08	213	75	87	161
37	16/09/95	194	52	43	95	1.16	225	60	50	110
38	23/09/95	104	27	4	31	1.05	109	28	4	33
39	30/09/95	63	30	0	30	1.00	63	30	0	30
40	07/10/95	18	2	1	3	1.09	20	2	1	3
41	14/10/95	9	0	6	6	1.23	11	0	7	7
42	21/10/95	4	0	0	0	1.15	5	0	0	0
Totals		4759	410	578	988		6324	463	631	1094

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

(b) From Table 3

(c) From Table 8

(d) Estimated catch = (monitored catch) * (expansion factor)

Table 10. Estimated numbers of chinook captured, harvested, and released, by stat week, at Moricetown Fishway, 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch (b)			Expansion factor (c)	Expanded fisherman hours (c)	Estimated Catch (d)		
			Number chinook gaffed/dipnetted					Number chinook gaffed/dipnetted		
			Harvested	Released	Total			Harvested	Released	Total
26	01/07/95	9	2	1	3	4.36	39	9	4	13
27	08/07/95	211	52	10	62	1.74	368	91	17	108
28	15/07/95	320	29	10	39	1.81	577	52	18	70
29	22/07/95	631	125	13	138	1.63	1028	204	21	225
30	29/07/95	496	86	11	97	1.57	776	135	17	152
31	05/08/95	504	159	42	201	1.33	668	211	56	266
32	12/08/95	635	130	39	169	1.25	795	163	49	212
33	19/08/95	784	120	17	137	1.00	784	120	17	137
34	26/08/95	379	69	27	96	1.06	404	73	29	102
35	02/09/95	203	34	18	52	1.18	239	40	21	61
36	09/09/95	197	27	27	54	1.08	213	29	29	58
37	16/09/95	194	21	35	56	1.16	225	24	41	65
38	23/09/95	104	0	5	5	1.05	109	0	5	5
39	30/09/95	63	0	0	0	1.00	63	0	0	0
40	07/10/95	18	0	0	0	1.09	20	0	0	0
41	14/10/95	9	0	0	0	1.23	11	0	0	0
42	21/10/95	4	0	0	0	1.15	5	0	0	0
Totals		4759	854	255	1109		6324	1151	325	1476

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

(b) From Table 4

(c) From Table 8

(d) Estimated catch = (monitored catch) * (expansion factor)

Table 11. Estimated numbers of coho captured, harvested, and released, by stat week, at Moricetown Fishway, 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch (b)			Expansion factor (c)	Expanded fisherman hours (c)	Estimated Catch (d)		
			Number coho gaffed/dipnetted					Number coho gaffed/dipnetted		
			Harvested	Released	Total			Harvested	Released	Total
26	01/07/95	9	2	1	3	4.36	39	9	4	13
27	08/07/95	211	52	10	62	1.74	368	91	17	108
28	15/07/95	320	29	10	39	1.81	577	52	18	70
29	22/07/95	631	125	13	138	1.63	1028	204	21	225
30	29/07/95	496	86	11	97	1.57	776	135	17	152
31	05/08/95	504	159	42	201	1.33	668	211	56	266
32	12/08/95	635	130	39	169	1.25	795	163	49	212
33	19/08/95	784	120	17	137	1.00	784	120	17	137
34	26/08/95	379	69	27	96	1.06	404	73	29	102
35	02/09/95	203	34	18	52	1.18	239	40	21	61
36	09/09/95	197	27	27	54	1.08	213	29	29	58
37	16/09/95	194	21	35	56	1.16	225	24	41	65
38	23/09/95	104	0	5	5	1.05	109	0	5	5
39	30/09/95	63	0	0	0	1.00	63	0	0	0
40	07/10/95	18	0	0	0	1.09	20	0	0	0
41	14/10/95	9	0	0	0	1.23	11	0	0	0
42	21/10/95	4	0	0	0	1.15	5	0	0	0
Totals		4759	854	255	1109		6324	1151	325	1476

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

(b) From Table 5

(c) From Table 8

(d) Estimated catch = (monitored catch) * (expansion factor)

Table 12. Estimated numbers of sockeye captured, harvested, and released, by stat week, at Moricetown Fishway, 1995.

Stat week	Week ending	Monitored fisherman hours (a)	Monitored Catch (b)			Expansion factor (c)	Expanded fisherman hours (c)	Estimated Catch (d)		
			Number sockeye gaffed/dipnetted					Number sockeye gaffed/dipnetted		
			Harvested	Released	Total			Harvested	Released	Total
26	01/07/95	9	0	0	0	4.36	39	0	0	0
27	08/07/95	211	634	18	652	1.74	368	1105	31	1137
28	15/07/95	320	844	11	855	1.81	577	1525	20	1545
29	22/07/95	631	3662	113	3775	1.63	1028	5966	184	6150
30	29/07/95	496	2976	142	3118	1.57	776	4662	222	4884
31	05/08/95	504	3693	194	3887	1.33	668	4895	257	5152
32	12/08/95	635	2255	87	2342	1.25	795	2825	109	2934
33	19/08/95	784	1482	181	1663	1.00	784	1482	181	1663
34	26/08/95	379	289	83	372	1.06	404	308	88	396
35	02/09/95	203	59	5	64	1.18	239	70	6	75
36	09/09/95	197	23	7	30	1.08	213	25	8	32
37	16/09/95	194	0	12	12	1.16	225	0	14	14
38	23/09/95	104	0	1	1	1.05	109	0	1	1
39	30/09/95	63	0	0	0	1.00	63	0	0	0
40	07/10/95	18	0	0	0	1.09	20	0	0	0
41	14/10/95	9	0	0	0	1.23	11	0	0	0
42	21/10/95	4	0	0	0	1.15	5	0	0	0
Totals		4759	15917	854	16771		6324	22861	1122	23983

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

(b) From Table 6

(c) From Table 8

(d) Estimated catch = (monitored catch) * (expansion factor)

Table 13. Estimated numbers of pink salmon captured, harvested, and released, by stat week, at Moricetown Fishway, 1995.

Stat	Week	Monitored fisherman	Monitored Catch (b)			Expansion factor	Expanded fisherman	Estimated Catch (d)		
			Number pink gaffed/dipnetted					Number pink gaffed/dipnetted		
week	ending	hours (a)	Harvested	Released	Total	(c)	hours (c)	Harvested	Released	Total
26	01/07/95	9	0	0	0	4.36	39	0	0	0
27	08/07/95	211	0	0	0	1.74	368	0	0	0
28	15/07/95	320	0	0	0	1.81	577	0	0	0
29	22/07/95	631	0	87	88	1.63	1028	0	142	142
30	29/07/95	496	0	1330	1397	1.57	776	0	2083	2083
31	05/08/95	504	0	2510	2571	1.33	668	0	3327	3327
32	12/08/95	635	1000	3164	4233	1.25	795	1253	3963	5216
33	19/08/95	784	77666	5851	83524	1.00	784	77666	5851	83517
34	26/08/95	379	10528	3634	14162	1.06	404	11209	3869	15078
35	02/09/95	203	806	2147	2997	1.18	239	951	2532	3483
36	09/09/95	197	0	1414	1478	1.08	213	0	1530	1530
37	16/09/95	194	0	348	350	1.16	225	0	404	404
38	23/09/95	104	0	72	77	1.05	109	0	76	76
39	30/09/95	63	0	19	20	1.00	63	0	19	19
40	07/10/95	18	0	0	0	1.09	20	0	0	0
41	14/10/95	9	0	0	0	1.23	11	0	0	0
42	21/10/95	4	0	0	0	1.15	5	0	0	0
Totals		4759	90321	20576	110897		6324	91078	23796	114874

(a) Monitored fisherman hours represents total monitored effort applied for all gear types

(b) From Table 7; harvest includes food and ESSR harvests

(c) From Table 8

(d) Estimated catch = (monitored catch) * (expansion factor)

FIGURES

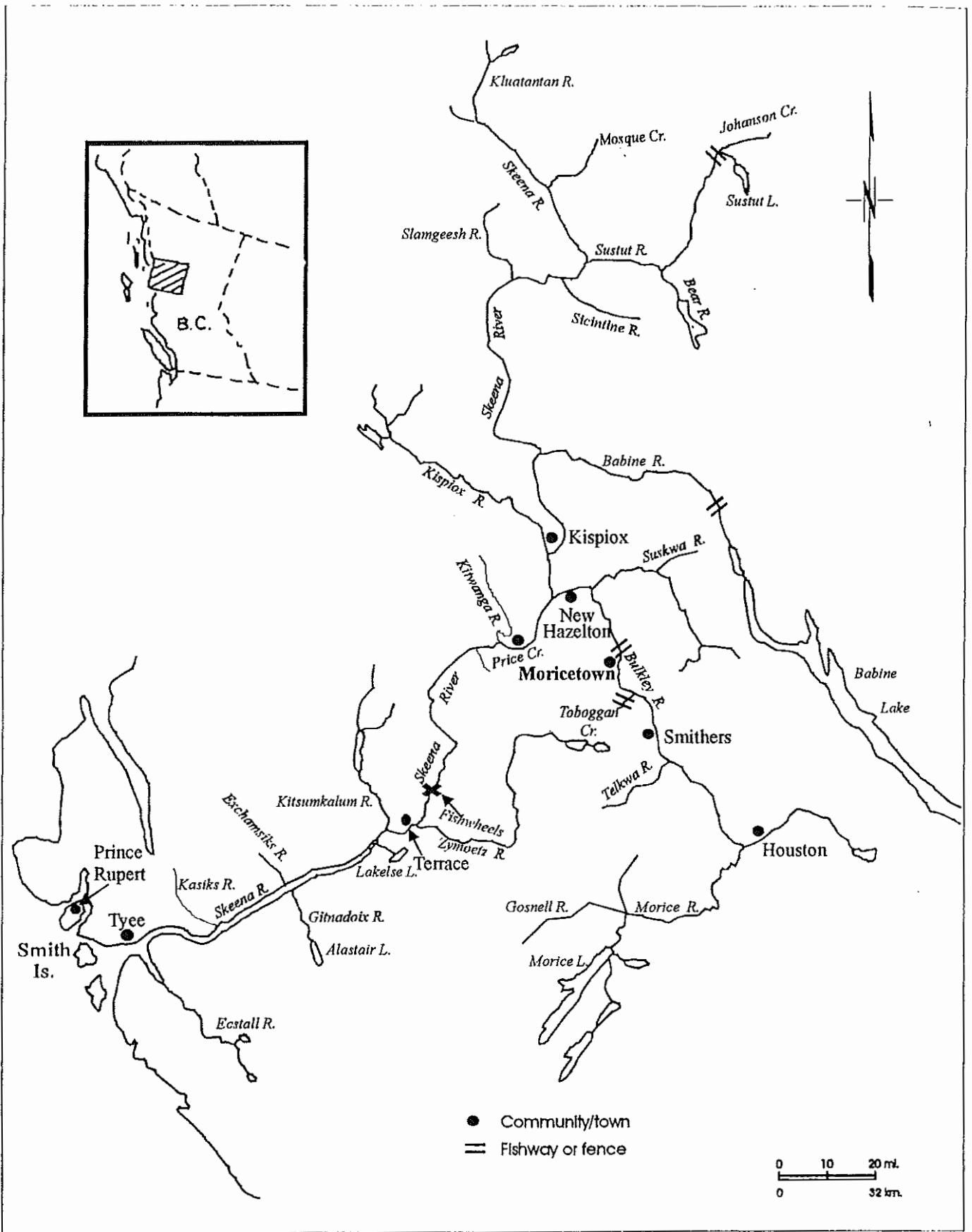


Figure 1a. Map of the Skeena River and tributaries. Illustrated are the location of the fishwheels at Kitselas Canyon (Skeena River) and Moricetown on the Bulkley River.

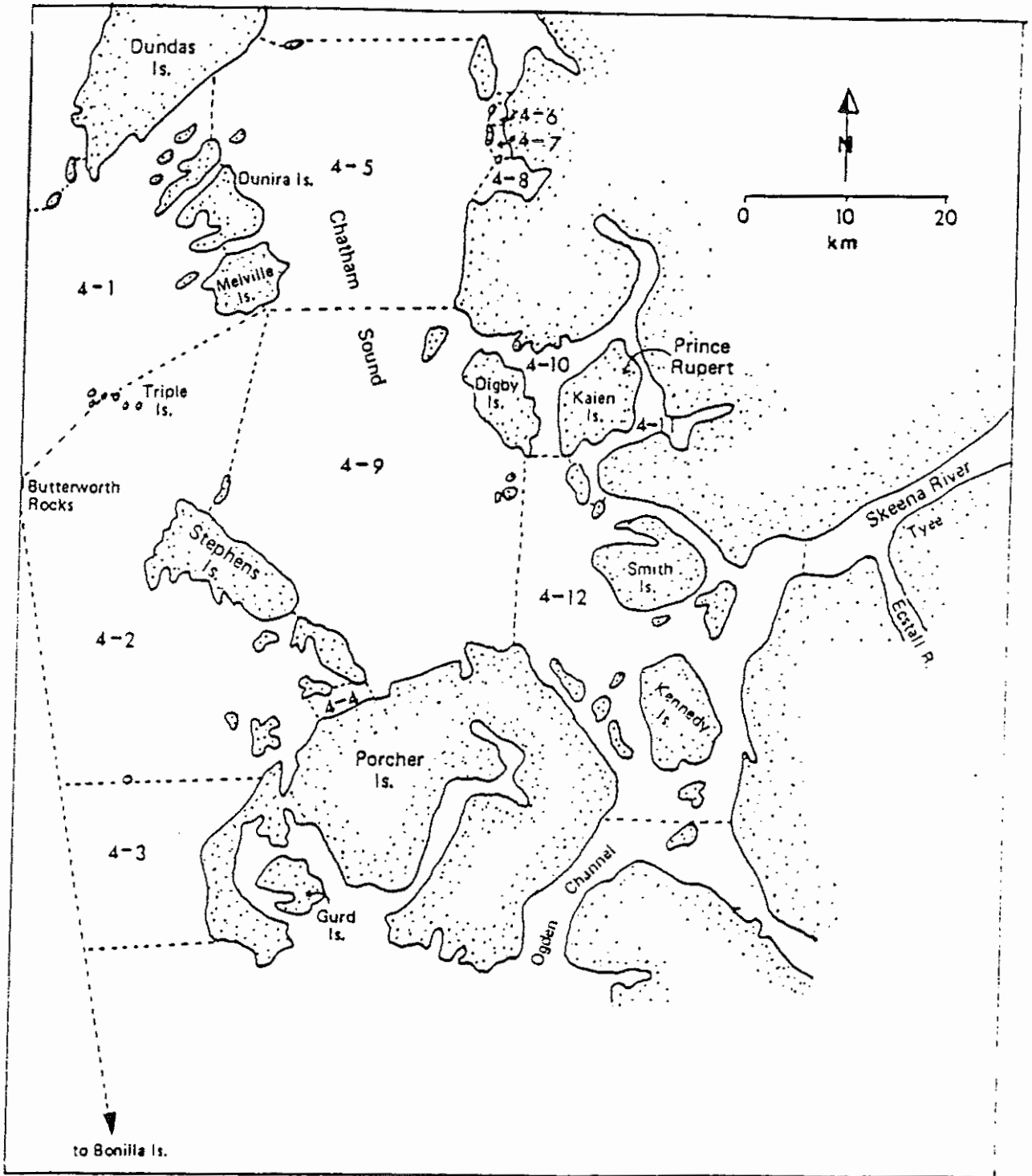


Figure 1b. Map of the mouth of the Skeena River, located in Statistical Area 4.

MORICETOWN FISHWAY 1995

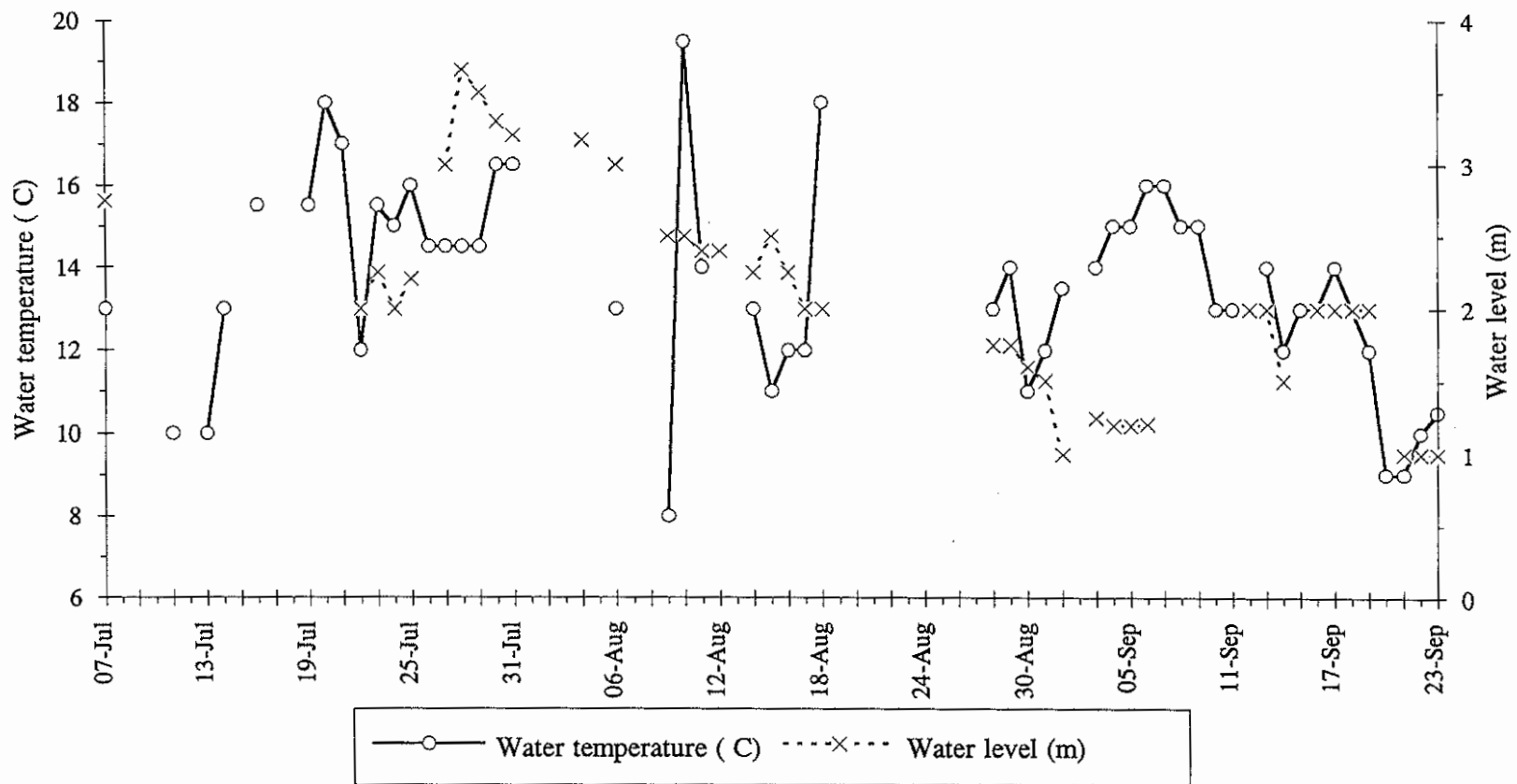
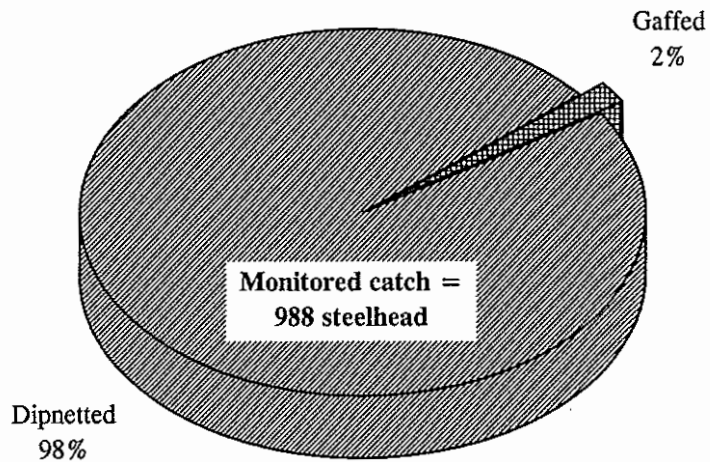


Figure 2. Water temperatures and levels at Moricetown fishway, 1995. Data were collected from the upstream end of the fishway.

MONITORED STEELHEAD CATCH BY GEAR TYPE AT MORICETOWN 1995



MONITORED STEELHEAD HARVEST AND RELEASE AT MORICETOWN 1995

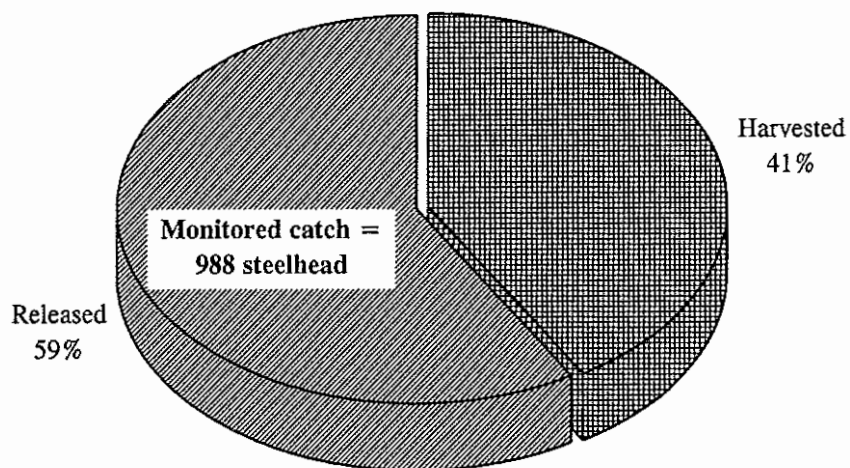
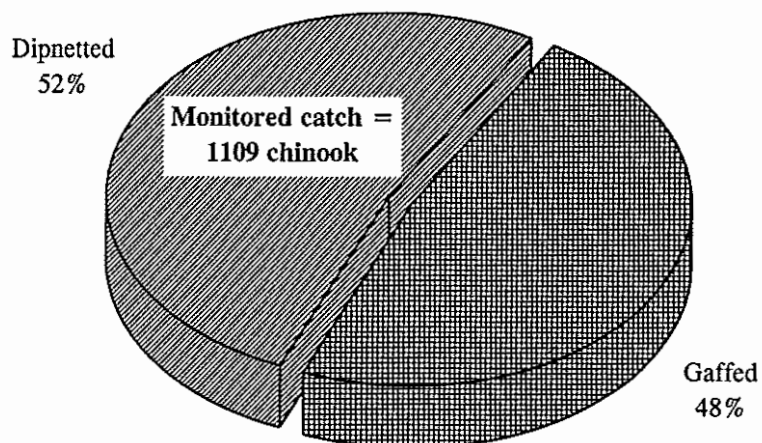


Figure 3. Monitored catch of steelhead by gear type, and monitored harvest and release of steelhead, at Moricetown Fishway 1995.

**MONITORED CHINOOK CATCH BY GEAR TYPE AT
MORICETOWN 1995**



**MONITORED CHINOOK HARVEST AND RELEASE AT
MORICETOWN 1995**

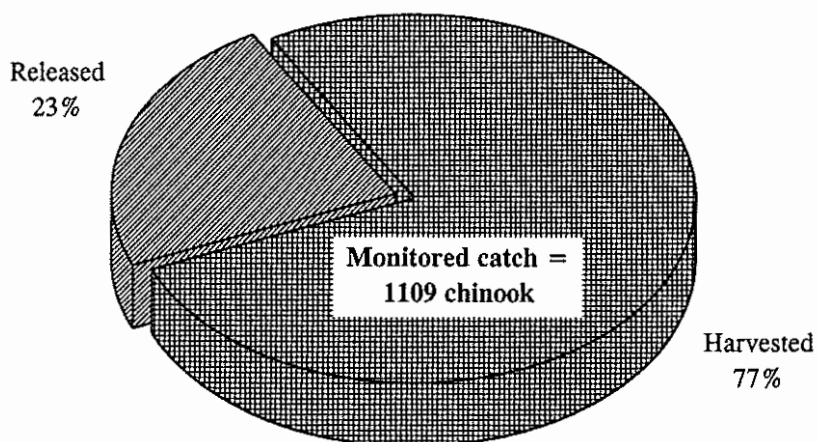
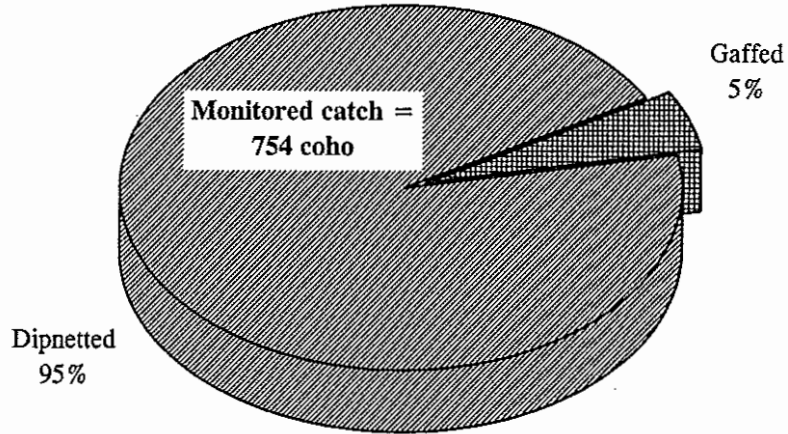


Figure 4. Monitored catch of chinook by gear type, and monitored harvest and release of chinook, at Moricetown Fishway 1995.

**MONITORED COHO CATCH BY GEAR TYPE AT
MORICETOWN 1995**



**MONITORED COHO HARVEST AND RELEASE AT
MORICETOWN 1995**

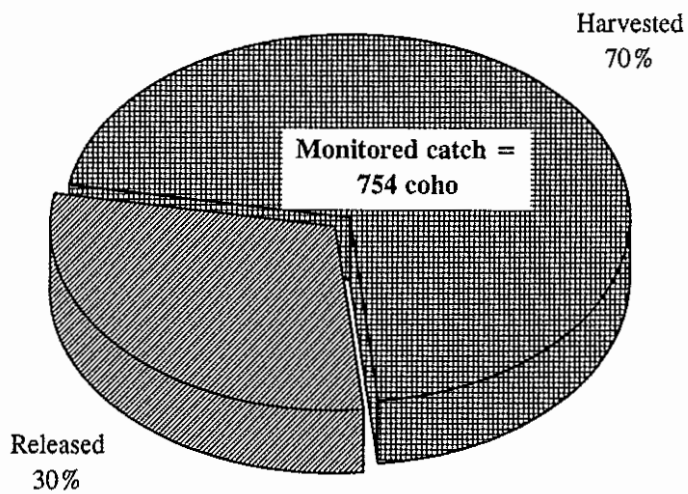
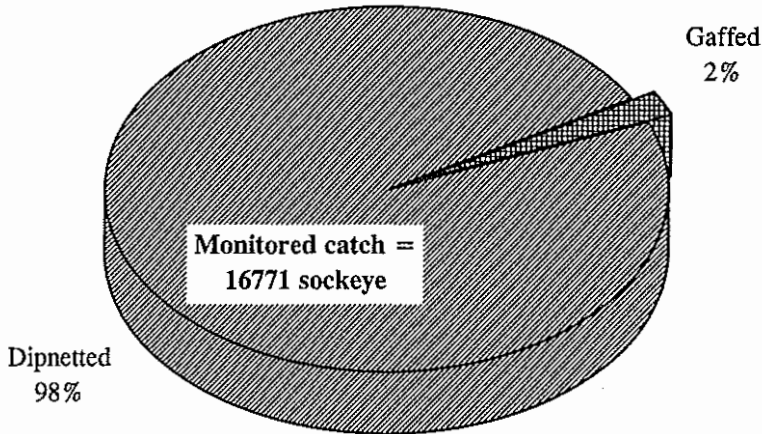


Figure 5. Monitored catch of coho by gear type, and monitored harvest and release of coho, at Moricetown Fishway 1995.

MONITORED SOCKEYE CATCH BY GEAR TYPE AT MORICETOWN 1995



MONITORED SOCKEYE HARVEST AND RELEASE AT MORICETOWN 1995

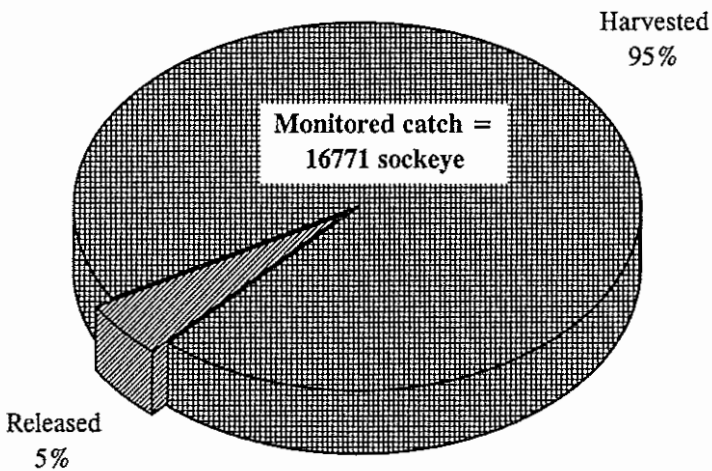
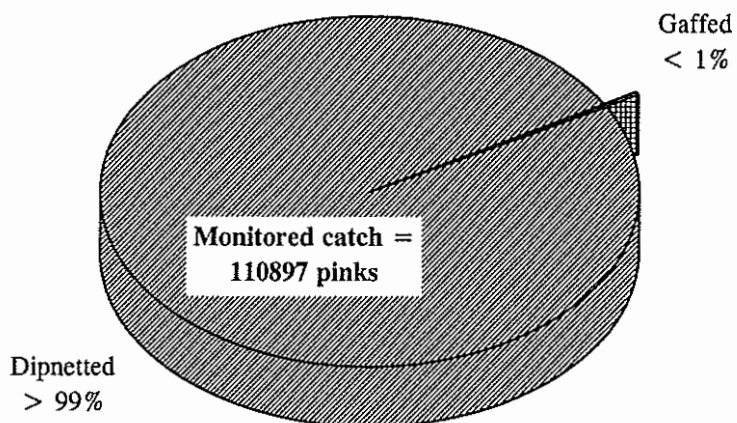


Figure 6. Monitored catch of sockeye by gear type, and monitored harvest and release of sockeye, at Moricetown Fishway 1995.

**MONITORED PINK SALMON CATCH BY GEAR TYPE AT
MORICETOWN 1995**



**MONITORED PINK SALMON HARVEST AND RELEASE AT
MORICETOWN 1995**

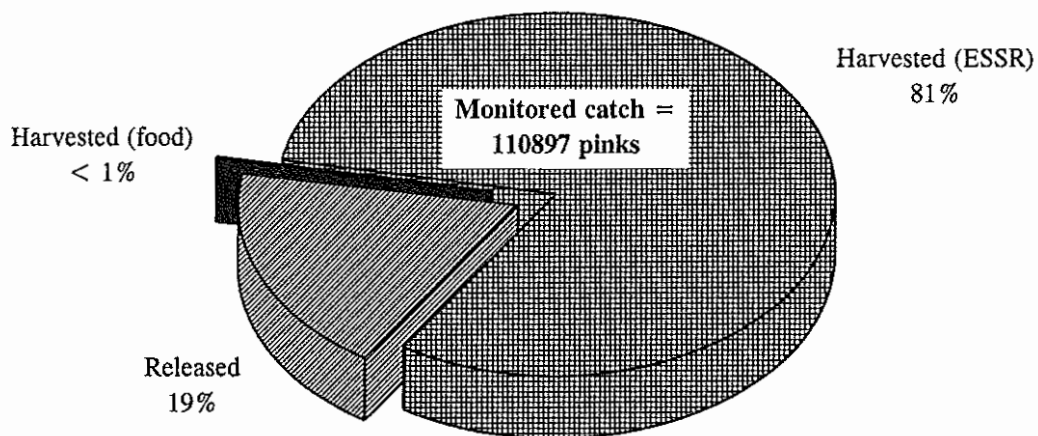


Figure 7. Monitored catch of pink salmon by gear type, and monitored harvest and release of pink salmon, at Moricetown Fishway 1995.

Moricetown Survey Effort vs Monitored CPUE

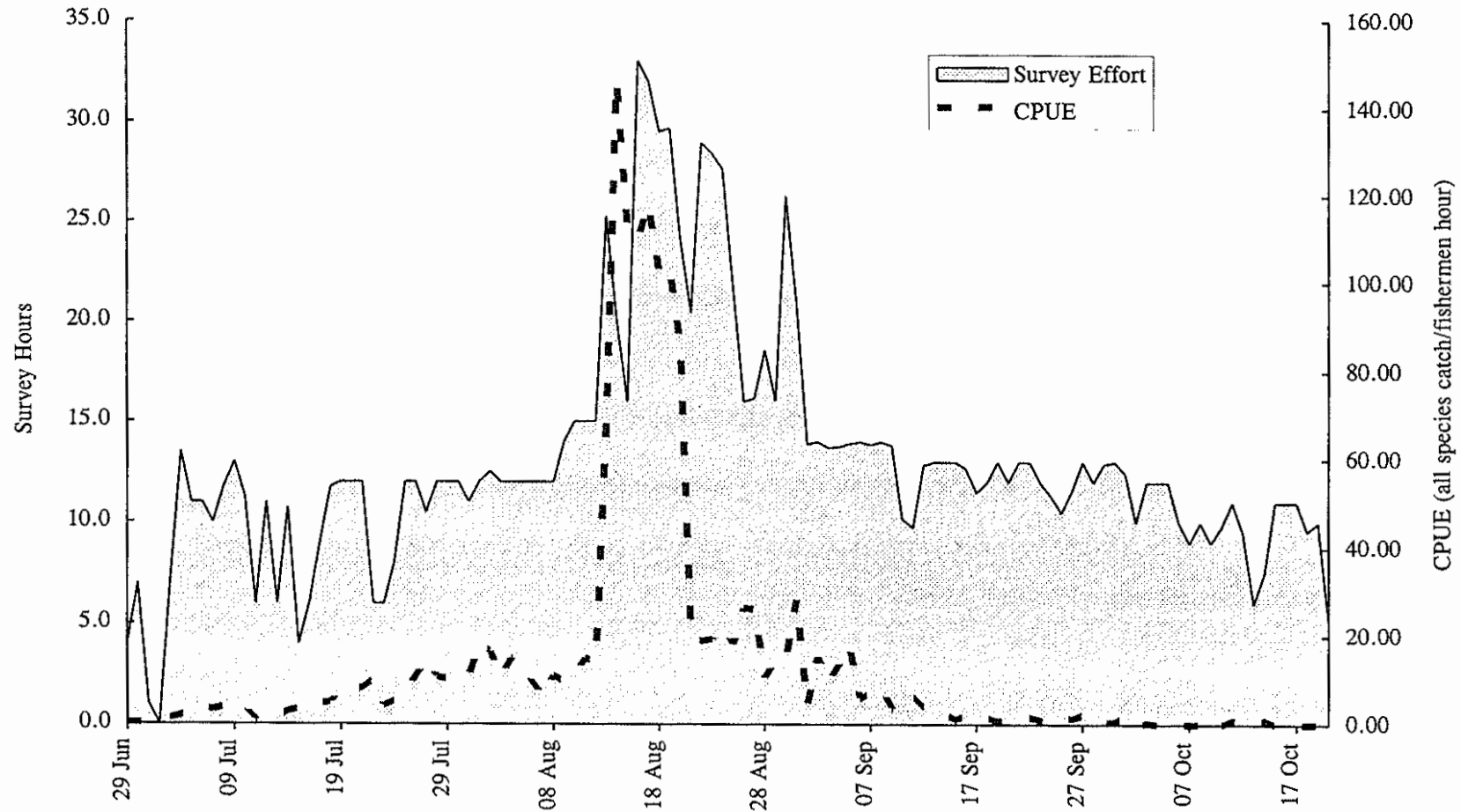


Figure 8. Monitored survey effort (hours) versus catch per unit effort (catch per fisherman hours) for all species, at Moricetown, 1995.

Moricetown Monitored Catch vs CPUE

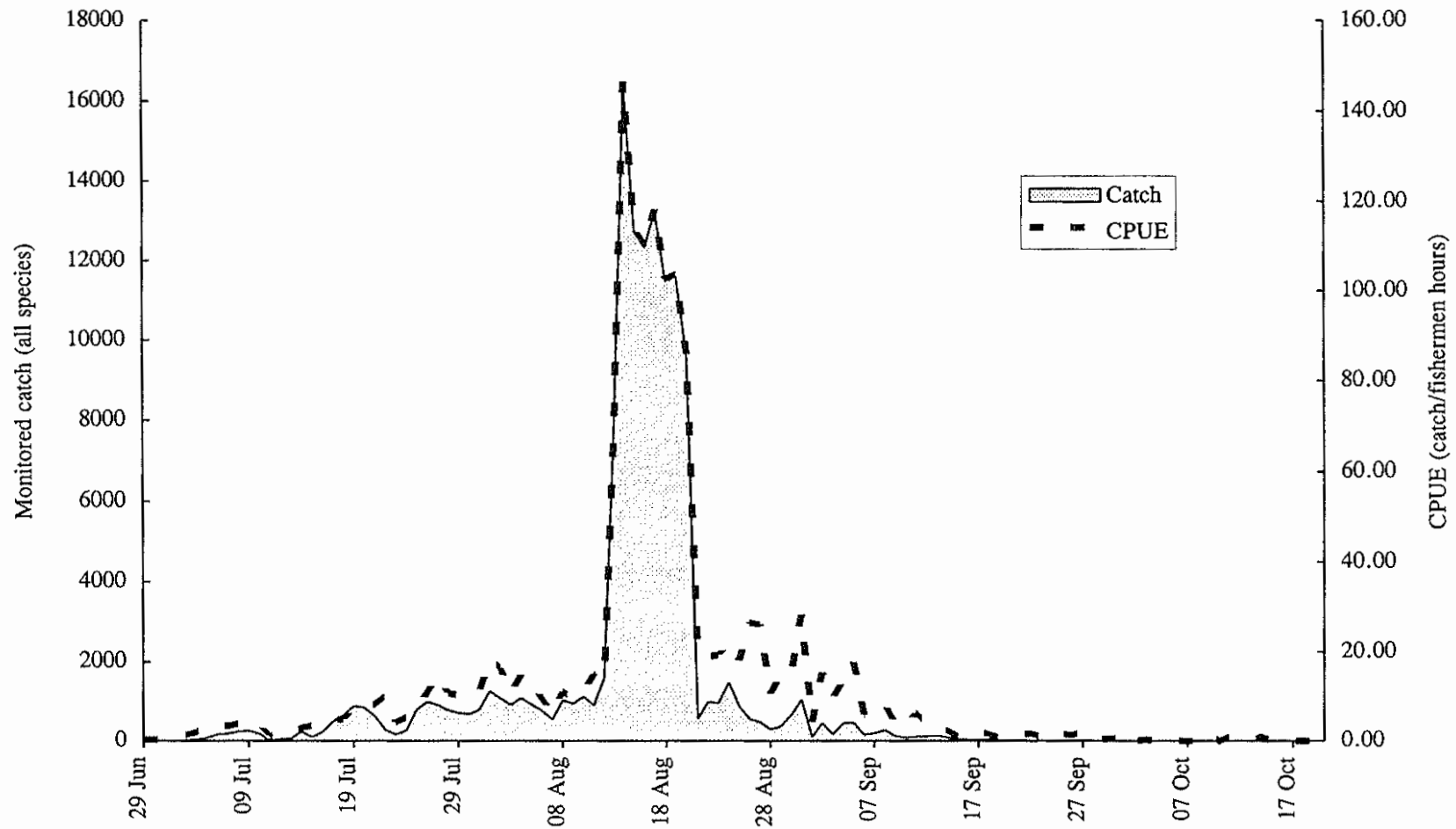


Figure 9. Monitored catch (all species) versus catch per unit effort (monitored catch per fisherman hours), at Moricetown, 1995.

APPENDICES

Appendix A. Water temperature and water level data for Morricetown fishway, by date, 1995.

Date	Water temperature (C)	Water level (m)
07/07/95	13.0	2.75
08/07/95	-	-
09/07/95	-	-
10/07/95	-	-
11/07/95	10.0	-
12/07/95	-	-
13/07/95	10.0	-
14/07/95	13.0	-
15/07/95	-	-
16/07/95	15.5	-
17/07/95	-	-
18/07/95	-	-
19/07/95	15.5	-
20/07/95	18.0	-
21/07/95	17.0	-
22/07/95	12.0	2.00
23/07/95	15.5	2.25
24/07/95	15.0	2.00
25/07/95	16.0	2.20
26/07/95	14.5	-
27/07/95	14.5	3.00
28/07/95	14.5	3.66
29/07/95	14.5	3.50
30/07/95	16.5	3.30
31/07/95	16.5	3.20
01/08/95	-	-
02/08/95	-	-
03/08/95	-	-
04/08/95	-	3.17
05/08/95	-	-
06/08/95	13.0	3.00
07/08/95	-	-
08/08/95	-	-
09/08/95	8.0	2.50
10/08/95	19.5	2.50
11/08/95	14.0	2.40
12/08/95	-	2.40
13/08/95	-	-
14/08/95	13.0	2.25
15/08/95	11.0	2.50
16/08/95	12.0	2.25
17/08/95	12.0	2.00

Appendix A. Water temperature and water level data for Morricetown fishway, by date, 1995.

Date	Water temperature (C)	Water level (m)
18/08/95	18.0	2.00
19/08/95	-	-
20/08/95	-	-
21/08/95	-	-
22/08/95	-	-
23/08/95	-	-
24/08/95	-	-
25/08/95	-	-
26/08/95	-	-
27/08/95	-	-
28/08/95	13.0	1.75
29/08/95	14.0	1.75
30/08/95	11.0	1.60
31/08/95	12.0	1.50
01/09/95	13.5	1.00
02/09/95	-	-
03/09/95	14.0	1.25
04/09/95	15.0	1.20
05/09/95	15.0	1.20
06/09/95	16.0	1.21
07/09/95	16.0	-
08/09/95	15.0	-
09/09/95	15.0	-
10/09/95	13.0	-
11/09/95	13.0	-
12/09/95	-	2.00
13/09/95	14.0	2.00
14/09/95	12.0	1.50
15/09/95	13.0	-
16/09/95	13.0	2.00
17/09/95	14.0	2.00
18/09/95	13.0	2.00
19/09/95	12.0	2.00
20/09/95	9.0	-
21/09/95	9.0	1.00
22/09/95	10.0	1.00
23/09/95	10.5	1.00
	Mean	2.09
	Maximum	3.66
	Minimum	1.00

Appendix B. Anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995.

Anchor tag No. (a)	Species	Nose-fork		Tagging date	Release		Scale		Vial No.	Scar code (b)	Health code (c)	Comments
		length (cm)	Sex		Time	Location	Book	No.				
47446	ST	70.0	NA	26/07/95	NA	fishway	NA	NA	NA	F	1	good shape
25976	ST	70.0	NA	01/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25996	ST	60.0	NA	01/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26704	ST	55.0	NA	02/08/95	NA	fishway	NA	NA	NA	E	2	bear claw mark
26708	ST	65.0	NA	02/08/95	NA	fishway	NA	NA	NA	E	2	scars on both sides
26713	ST	66.0	NA	02/08/95	NA	fishway	NA	NA	NA	E	2	damaged dorsal
26891	ST	50.0	NA	03/08/95	NA	fishway	NA	NA	NA	B	2	net mark
25471	ST	68.0	NA	08/08/95	NA	fishway	NA	NA	NA	F	1	
26201	ST	73.0	NA	08/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26825	ST	68.0	NA	11/08/95	NA	fishway	NA	NA	NA	F	1	
26361	ST	59.0	NA	13/08/95	NA	fishway	NA	NA	NA	F	1	
26363	ST	64.0	NA	13/08/95	NA	fishway	NA	NA	NA	B	2	net mark
26365	ST	51.0	NA	13/08/95	NA	fishway	NA	NA	NA	B	2	net mark
26366	ST	50.0	NA	13/08/95	NA	fishway	NA	NA	NA	B	2	net mark
26368	ST	51.0	NA	14/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26369	ST	55.0	NA	14/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26903	ST	63.0	NA	17/08/95	NA	fishway	NA	NA	NA	F	1	good shape
S05252	ST	57.0	NA	17/08/95	NA	fishway	NA	NA	NA	B	2	net mark
S05254	ST	60.0	NA	17/08/95	NA	fishway	NA	NA	NA	B	2	net mark
26459	ST	60.0	NA	18/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26475	ST	50.0	NA	19/08/95	NA	fishway	NA	NA	NA	B	2	net mark
25478	ST	53.0	NA	20/08/95	NA	fishway	NA	NA	NA	E	2	damaged dorsal
25479	ST	71.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25480	ST	63.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25482	ST	63.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25483	ST	70.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25484	ST	71.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25488	ST	73.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25489	ST	51.0	NA	20/08/95	NA	fishway	NA	NA	NA	E	2	damaged dorsal
25493	ST	50.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25494	ST	61.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25496	ST	72.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape

Appendix B. Anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995.

Anchor tag		Nose-fork		Tagging date	Release		Scale	Scale	Vial No.	Scar code (b)	Health code (c)	Comments
No. (a)	Species	length (cm)	Sex		Time	Location	Book	No.				
25497	ST	73.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25498	ST	74.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25499	ST	57.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25500	ST	53.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25880	ST	56.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25881	ST	53.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25882	ST	76.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25883	ST	56.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25885	ST	71.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25886	ST	55.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25887	ST	52.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25888	ST	53.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25889	ST	52.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25890	ST	59.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25891	ST	76.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26576	ST	64.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26577	ST	60.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26578	ST	62.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26579	ST	55.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26580	ST	49.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26583	ST	52.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26584	ST	50.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26928	ST	67.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26929	ST	66.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26935	ST	52.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26936	ST	57.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26938	ST	77.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26943	ST	50.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26944	ST	56.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26945	ST	60.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26947	ST	63.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26948	ST	67.0	NA	20/08/95	NA	fishway	NA	NA	NA	F	1	good shape

Appendix B. Anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995.

Anchor tag		Nose-fork		Tagging date	Release		Scale	Scale	Vial No.	Scar code (b)	Health code (c)	Comments
No. (a)	Species	length (cm)	Sex		Time	Location	Book	No.				
25893	ST	54.0	NA	21/08/95	NA	fishway	NA	NA	NA	F	1	good shape
25897	ST	55.0	NA	21/08/95	NA	fishway	NA	NA	NA	E	2	damaged caudal
25900	ST	83.0	NA	21/08/95	NA	fishway	NA	NA	NA	E	2	dorsal damage
26905	ST	62.0	NA	21/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26906	ST	67.0	NA	21/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26907	ST	69.0	NA	21/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26911	ST	52.0	NA	22/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26913	ST	60.0	NA	22/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26916	ST	52.0	NA	22/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26917	ST	56.0	NA	22/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26919	ST	67.0	NA	22/08/95	NA	fishway	NA	NA	NA	F	1	good shape
26923	ST	51.0	NA	24/08/95	13:25	fishway	NA	NA	NA	F	2	good shape
26924	ST	73.0	NA	24/08/95	13:35	fishway	NA	NA	312	F	2	heavy scale loss
26922	ST	68.0	NA	24/08/95	14:52	fishway	NA	NA	313	D	1	right hook damage
26921	ST	57.0	NA	24/08/95	15:25	fishway	NA	NA	316	F	2	good shape
26585	ST	87.0	NA	25/08/95	9:56	fishway	NA	NA	NA	F	2	good shape
26586	ST	54.0	NA	25/08/95	10:25	fishway	NA	NA	317	E	1	dorsal fin damage
26587	ST	53.0	NA	25/08/95	12:50	fishway	NA	NA	NA	F	1	good shape
26588	ST	?	NA	25/08/95	14:00	fishway	NA	NA	319	F	1	good shape
26589	ST	70.0	NA	26/08/95	7:50	fishway	NA	NA	NA	F	2	good shape
26590	ST	72.0	NA	26/08/95	7:55	fishway	NA	NA	NA	F	2	good shape
26591	ST	78.0	NA	26/08/95	8:30	fishway	NA	NA	NA	F	1	good shape
26592	ST	64.0	NA	26/08/95	9:22	fishway	NA	NA	322	F	1	good shape
26593	ST	71.0	NA	26/08/95	9:33	fishway	NA	NA	NA	F	1	good shape
26594	ST	71.0	NA	26/08/95	10:30	fishway	NA	NA	NA	F	3	good shape
26596	ST	82.0	NA	29/08/95	14:05	fishway	NA	NA	NA	F	4	dropped on rock
26597	ST	72.0	NA	30/08/95	11:45	fishway	NA	NA	NA	F	2	good shape
26598	ST	71.0	NA	30/08/95	11:50	fishway	NA	NA	NA	F	2	good shape
26599	ST	78.0	NA	30/08/95	11:52	fishway	NA	NA	NA	F	2	good shape
26600	ST	58.0	NA	30/08/95	12:23	fishway	NA	NA	NA	F	1	good shape
26601	ST	72.0	NA	30/08/95	12:35	fishway	NA	NA	NA	F	4	bleeding from gills
26477	ST	72.0	NA	30/08/95	12:45	fishway	NA	NA	NA	F	4	bleeding from gills

Appendix B. Anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995.

Anchor tag No. (a)	Species	Nose-fork		Tagging date	Release		Scale	Scale	Vial No.	Scar code (b)	Health code (c)	Comments
		length (cm)	Sex		Time	Location	Book	No.				
26478	ST	68.0	NA	30/08/95	13:00	fishway	NA	NA	NA	F	1	good shape
26479	ST	57.0	NA	30/08/95	13:02	fishway	NA	NA	NA	F	1	good shape
26480	ST	92.0	NA	30/08/95	13:15	fishway	NA	NA	NA	F	3	held in net too long
26481	ST	80.0	NA	30/08/95	13:15	fishway	NA	NA	NA	B	3	held in net too long
26482	ST	72.0	NA	30/08/95	13:25	fishway	NA	NA	NA	A	4	dropped on rocks
26483	ST	56.0	NA	30/08/95	14:15	fishway	NA	NA	NA	F	4	dropped on rocks
26485	ST	76.0	NA	30/08/95	14:20	fishway	NA	NA	NA	F	1	good shape
26486	ST	51.0	NA	30/08/95	14:25	fishway	NA	NA	NA	B	4	gilled in net
26487	ST	54.0	NA	30/08/95	14:30	fishway	NA	NA	NA	F	4	some bleeding
26488	ST	71.0	NA	30/08/95	14:31	fishway	NA	NA	NA	F	2	good shape
26489	ST	72.0	NA	30/08/95	14:46	fishway	NA	NA	NA	F	1	good shape
26491	ST	73.0	NA	30/08/95	15:25	fishway	NA	NA	NA	F	1	good shape
26492	ST	73.0	NA	30/08/95	15:35	fishway	NA	NA	NA	F	1	good shape
26493	ST	75.0	NA	30/08/95	15:40	fishway	NA	NA	NA	F	1	good shape
26494	ST	80.0	NA	30/08/95	15:45	fishway	NA	NA	NA	F	1	good shape
26495	ST	70.0	NA	30/08/95	15:50	fishway	NA	NA	NA	F	1	good shape
26496	ST	51.0	NA	30/08/95	16:00	fishway	NA	NA	NA	F	1	good shape
26497	ST	55.0	NA	30/08/95	16:13	fishway	NA	NA	NA	F	4	bleeding from gills
26498	ST	71.0	NA	30/08/95	16:20	fishway	NA	NA	NA	F	1	good shape
26499	ST	58.0	NA	31/08/95	10:50	fishway	NA	NA	NA	F	1	good shape
26500	ST	67.0	NA	31/08/95	10:52	fishway	NA	NA	NA	F	1	good shape
26376	ST	70.0	NA	31/08/95	11:00	fishway	NA	NA	326	F	1	good shape
26377	ST	50.0	NA	31/08/95	11:02	fishway	NA	NA	NA	F	3	heavy scale loss
26378	ST	87.0	NA	07/09/95	11:43	fishway	NA	NA	NA	F	2	prev. red anchor tag CF00908
26379	ST	81.0	NA	13/09/95	11:14	fishway	NA	NA	NA	F	1	good shape
26380	ST	57.0	NA	13/09/95	11:50	fishway	NA	NA	NA	F	4	bleeding from gills
26381	ST	86.0	NA	13/09/95	12:00	fishway	NA	NA	NA	F	3	damaged eye
26382	ST	65.0	NA	13/09/95	13:38	fishway	NA	NA	NA	F	1	good shape
26383	ST	73.0	NA	13/09/95	13:44	fishway	NA	NA	NA	F	1	good shape
26384	ST	57.0	NA	13/09/95	13:47	fishway	NA	NA	NA	F	1	good shape
26385	ST	55.0	NA	13/09/95	13:54	fishway	NA	NA	NA	D	2	snag mark
26386	ST	83.0	NA	13/09/95	14:18	fishway	NA	NA	NA	F	1	good shape

Appendix B. Anchor tag release data for steelhead, by tag number and tagging date, at Moricetown fishway, 1995.

Anchor tag		Nose-fork		Tagging date	Release		Scale	Scale	Vial No.	Scar code (b)	Health code (c)	Comments
No. (a)	Species	length (cm)	Sex		Time	Location	Book	No.				
26387	ST	75.0	NA	13/09/95	15:30	fishway	NA	NA	NA	F	1	good shape
26388	ST	57.0	NA	13/09/95	16:00	fishway	NA	NA	NA	F	1	good shape
26389	ST	76.0	NA	14/09/95	10:00	fishway	NA	NA	NA	E	3	damaged nose
26390	ST	92.0	NA	14/09/95	12:13	fishway	NA	NA	NA	F	1	good shape
26391	ST	64.0	NA	14/09/95	16:39	fishway	NA	NA	NA	F	1	good shape
26393	ST	65.0	NA	15/09/95	11:03	fishway	NA	NA	NA	F	1	good shape
26394	ST	71.0	NA	15/09/95	11:52	fishway	NA	NA	NA	E	4	bleeding from eye
26395	ST	70.0	NA	15/09/95	14:51	fishway	NA	NA	NA	F	1	good shape
26396	ST	75.0	NA	15/09/95	15:00	fishway	NA	NA	NA	F	1	good shape
26397	ST	73.0	NA	15/09/95	15:43	fishway	NA	NA	NA	F	1	good shape

(a) Skeena Fish Commission (orange) anchor tags were used

(b) Scar code: A=seal; B=gillnet; C=troll; D=hook; E=other; F=none

(c) Health code: 1=excellent (little scale loss/extremely vigorous); 2=good (some scale loss/vigorous); 3=fair (mod. scale loss/sluggish);
4=poor (heavy scale loss/lethargic)

NA = not available or not applicable

Appendix C. Information regarding coho that were radio-tagged at Moricetown falls, 24 August - 15 September 1995.

Floy tag no.		Radio tag		Nose-fork length (cm)	Sex	Method of capture	Tagging date	Release		Vial no.	Scar code ^c	Health code ^d	Comments
First	Second	Channel ^a	Code					Time	Location				
8109	8108	20	46	61.0	?	Dipnet	25/08/95	10:10	Moricetown	NA	F	1	
8111	8110	20	47	66.0	m	Dipnet	25/08/95	11:33	Moricetown	NA	F	1	
8114	8115	13	36	73.0	m	Dipnet	26/08/95	08:00	Moricetown	NA	F	3	
8116	8117	13	31	65.0	f	Dipnet	26/08/95	10:45	Moricetown	NA	F	1	some bleeding from floy
8121	8122	20	38	63.0	m	Dipnet	30/08/95	16:11	Moricetown	NA	F	2	
8124	8125	13	33	70.0	m	Dipnet	05/09/95	15:32	Moricetown	NA	F	2	
8126	8127	13	32	65.0	f	Dipnet	05/09/95	15:40	Moricetown	NA	E	1	old scar, right side
8128	8129	20	51	67.0	m	Dipnet	07/09/95	10:55	Moricetown	NA	F	2	held in bag 30 min
8130	8131	13	37	69.0	m	Dipnet	07/09/95	14:16	Moricetown	NA	F	3	
8132	8133	20	45	66.0	f	Dipnet	07/09/95	14:28	Moricetown	NA	D	2	old hook scar on nose
8136	8137	20	23	68.0	m	Dipnet	12/09/95	17:10	Moricetown	245	E	3	net mark on head
8138	8139	20	42	66.0	f	Dipnet	12/09/95	17:26	Moricetown	246	F	2	
8140	8141	13	28	71.0	m	Dipnet	13/09/95	10:59	Moricetown	247	E	3	split dorsal fin
8142	8143	13	24	65.0	m	Dipnet	13/09/95	11:16	Moricetown	248	F	1	
8144	8145	20	48	72.0	m	Dipnet	13/09/95	14:05	Moricetown	249	F	3	held in bag 25 min.
8146	8147	20	43	71.0	m	Dipnet	13/09/95	15:05	Moricetown	250	F	1	
8148	8149	13	27	67.0	m	Dipnet	13/09/95	15:36	Moricetown	251	E	1	damaged left eye
8151	8152	13	35	66.0	m	Dipnet	14/09/95	13:36	Moricetown	252	E	1	old damage to left eye
8153	8155	20	44	67.0	m	Dipnet	14/09/95	16:10	Moricetown	254	F	2	

^a Two frequencies (MHz) were used: Channels 13=149.560 and 20=149.700.

^b Not available or not applicable.

^c Scar code: A=seal, B=gillnet, C=troll, D=hook, E=other, and F=none.

^d Health code: 1=excellent (little scale loss/extremely vigourous), 2=good (some scale loss/vigourous), 3=fair (mod. scale loss/sluggish), and 4=poor (heavy scale loss/lethargic).

Appendix D. Steelhead harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number steelhead gaffed			Number steelhead dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
29/06/95	6	0	0	0	0	0	0
30/06/95	3	0	0	0	0	0	0
01/07/95	0	0	0	0	0	0	0
02/07/95	0	0	0	0	0	0	0
03/07/95	9	0	0	0	0	0	0
04/07/95	17	0	0	0	0	0	0
05/07/95	22	0	0	0	0	0	0
06/07/95	46	0	0	0	0	0	0
07/07/95	55	0	0	0	0	0	0
08/07/95	63	0	0	0	0	0	0
09/07/95	90	0	0	0	0	0	0
10/07/95	49	0	0	0	0	0	0
11/07/95	6	0	0	0	0	0	0
12/07/95	27	0	0	0	0	0	0
13/07/95	38	0	0	0	0	0	0
14/07/95	81	0	0	0	0	0	0
15/07/95	29	0	0	0	0	0	0
16/07/95	66	0	0	0	0	0	0
17/07/95	105	0	0	0	0	0	0
18/07/95	130	0	0	0	1	2	3
19/07/95	117	0	0	0	1	0	1
20/07/95	109	0	0	0	0	0	0
21/07/95	76	0	0	0	2	0	2
22/07/95	28	0	0	0	0	0	0
23/07/95	38	0	0	0	0	0	0
24/07/95	51	0	0	0	0	0	0
25/07/95	112	0	0	0	0	0	0
26/07/95	90	0	0	0	0	0	0
27/07/95	63	0	0	0	0	1	1
28/07/95	73	0	0	0	1	0	1
29/07/95	69	0	0	0	1	0	1
30/07/95	69	0	0	0	0	1	1
31/07/95	73	0	0	0	3	2	5
01/08/95	68	1	0	1	1	4	5
02/08/95	65	0	0	0	2	3	5
03/08/95	86	0	0	0	1	0	1
04/08/95	72	0	0	0	2	0	2
05/08/95	71	3	0	3	12	0	12
06/08/95	82	1	0	1	0	1	1
07/08/95	91	0	1	1	2	0	2
08/08/95	93	1	0	1	7	9	16
09/08/95	97	0	0	0	9	8	17
10/08/95	100	0	1	1	4	3	7
11/08/95	60	0	0	0	1	11	12
12/08/95	112 (b)	0	0	0	0	12	12
13/08/95	112 (b)	3	0	3	4	11	15
14/08/95	112 (b)	0	0	0	0	25	25
15/08/95	112 (b)	0	0	0	0	22	22
16/08/95	112 (b)	0	0	0	2	14	16
17/08/95	112 (b)	0	0	0	0	39	39
18/08/95	112 (b)	0	0	0	0	26	26
19/08/95	112 (b)	0	1	1	0	38	38
20/08/95	112 (b)	0	0	0	1	47	48
21/08/95	28	0	0	0	5	26	31
22/08/95	52	0	0	0	18	21	39
23/08/95	50	0	0	0	25	16	41
24/08/95	68	0	0	0	21	14	35
25/08/95	48	1	1	2	7	9	16
26/08/95	21	0	0	0	8	9	17
27/08/95	18	0	0	0	11	3	14

Appendix D. Steelhead harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number steelhead gaffed			Number steelhead dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
28/08/95	28	0	0	0	11	7	18
29/08/95	25	0	0	0	3	2	5
30/08/95	44	0	0	0	18	27	45
31/08/95	37	0	0	0	14	13	27
01/09/95	23	0	0	0	10	10	20
02/09/95	29	0	0	0	12	4	16
03/09/95	18	1	0	1	1	2	3
04/09/95	33	0	0	0	23	9	32
05/09/95	26	0	0	0	14	14	28
06/09/95	26	0	0	0	4	9	13
07/09/95	28	0	0	0	4	23	27
08/09/95	32	0	0	0	7	19	26
09/09/95	35	1	0	1	14	4	18
10/09/95	23	0	0	0	10	5	15
11/09/95	16	0	1	1	6	4	10
12/09/95	28	0	0	0	7	5	12
13/09/95	37	0	0	0	3	13	16
14/09/95	39	0	0	0	9	9	18
15/09/95	34	0	0	0	11	5	16
16/09/95	16	0	0	0	6	1	7
17/09/95	13	0	0	0	7	0	7
18/09/95	23	0	0	0	6	2	8
19/09/95	24	1	0	1	6	0	6
20/09/95	15	0	0	0	2	0	2
21/09/95	14	0	0	0	3	0	3
22/09/95	5	0	0	0	1	0	1
23/09/95	10	0	0	0	1	2	3
24/09/95	8	0	0	0	0	0	0
25/09/95	9	0	0	0	3	0	3
26/09/95	7	0	0	0	4	0	4
27/09/95	11	0	0	0	12	0	12
28/09/95	10	0	0	0	4	0	4
29/09/95	9	0	0	0	3	0	3
30/09/95	9	0	0	0	4	0	4
01/10/95	1	0	0	0	2	0	2
02/10/95	1	0	0	0	0	0	0
03/10/95	3	0	0	0	0	1	1
04/10/95	2	0	0	0	0	0	0
05/10/95	4	0	0	0	0	0	0
06/10/95	4	0	0	0	0	0	0
07/10/95	3	0	0	0	0	0	0
08/10/95	1	0	0	0	0	0	0
09/10/95	2	0	0	0	0	3	3
10/10/95	2	0	0	0	0	0	0
11/10/95	1	0	0	0	0	1	1
12/10/95	2	0	0	0	0	1	1
13/10/95	0	0	0	0	0	0	0
14/10/95	1	0	0	0	0	1	1
15/10/95	2	0	0	0	0	0	0
16/10/95	2	0	0	0	0	0	0
17/10/95	0	0	0	0	0	0	0
18/10/95	0	0	0	0	0	0	0
19/10/95	0	0	0	0	0	0	0
20/10/95	0	0	0	0	0	0	0
Total	4759	13	5	18	397	573	970

(a) Fisherman hours represent total effort applied for all gear types

(b) Daily fisherman hours for 12 - 20 August are based on two 7-h shifts of fishing time for 8 persons per shift = 112 hours.

Appendix E. Chinook harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number chinook gaffed			Number chinook dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
29/06/95	6	1	1	2	0	0	0
30/06/95	3	1	0	1	0	0	0
01/07/95	0	0	0	0	0	0	0
02/07/95	0	0	0	0	0	0	0
03/07/95	9	1	1	2	0	0	0
04/07/95	17	1	0	1	2	0	2
05/07/95	22	2	1	3	5	0	5
06/07/95	46	8	2	10	2	0	2
07/07/95	55	9	1	10	4	0	4
08/07/95	63	13	4	17	5	1	6
09/07/95	90	7	5	12	2	0	2
10/07/95	49	6	4	10	1	0	1
11/07/95	6	0	0	0	2	0	2
12/07/95	27	0	0	0	1	1	2
13/07/95	38	0	0	0	0	0	0
14/07/95	81	4	0	4	1	0	1
15/07/95	29	5	0	5	0	0	0
16/07/95	66	8	1	9	2	0	2
17/07/95	105	12	1	13	3	0	3
18/07/95	130	22	1	23	2	0	2
19/07/95	117	24	5	29	3	0	3
20/07/95	109	13	2	15	8	0	8
21/07/95	76	6	2	8	2	0	2
22/07/95	28	18	1	19	2	0	2
23/07/95	38	11	1	12	1	0	1
24/07/95	51	6	1	7	1	0	1
25/07/95	112	4	0	4	1	0	1
26/07/95	90	11	3	14	6	1	7
27/07/95	63	18	2	20	5	0	5
28/07/95	73	6	2	8	1	0	1
29/07/95	69	15	1	16	0	0	0
30/07/95	69	14	1	15	5	1	6
31/07/95	73	8	3	11	6	1	7
01/08/95	68	10	9	19	8	0	8
02/08/95	65	8	2	10	13	0	13
03/08/95	86	13	4	17	4	1	5
04/08/95	72	20	5	25	12	0	12
05/08/95	71	25	13	38	13	2	15
06/08/95	82	7	5	12	4	3	7
07/08/95	91	15	8	23	6	1	7
08/08/95	93	14	9	23	9	1	10
09/08/95	97	12	5	17	29	1	30
10/08/95	100	6	2	8	7	2	9
11/08/95	60	13	2	15	2	0	2
12/08/95	112 (b)	1	0	1	5	0	5
13/08/95	112 (b)	3	0	3	10	1	11
14/08/95	112 (b)	0	0	0	13	2	15
15/08/95	112 (b)	0	0	0	5	0	5
16/08/95	112 (b)	0	0	0	20	1	21
17/08/95	112 (b)	0	0	0	30	5	35
18/08/95	112 (b)	0	0	0	19	4	23
19/08/95	112 (b)	0	0	0	20	4	24
20/08/95	112 (b)	0	3	3	16	5	21
21/08/95	28	0	0	0	2	8	10
22/08/95	52	0	0	0	15	2	17
23/08/95	50	0	0	0	14	2	16
24/08/95	68	1	0	1	10	1	11
25/08/95	48	6	1	7	3	2	5
26/08/95	21	0	0	0	2	3	5
27/08/95	18	0	0	0	1	0	1

Appendix E. Chinook harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number chinook gaffed			Number chinook dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
28/08/95	28	2	0	2	4	2	6
29/08/95	25	0	0	0	4	4	8
30/08/95	44	0	0	0	13	4	17
31/08/95	37	0	0	0	4	4	8
01/09/95	23	0	0	0	0	2	2
02/09/95	29	0	0	0	6	2	8
03/09/95	18	0	0	0	1	0	1
04/09/95	33	0	0	0	5	3	8
05/09/95	26	1	0	1	4	8	12
06/09/95	26	1	0	1	1	4	5
07/09/95	28	1	1	2	3	4	7
08/09/95	32	0	0	0	4	6	10
09/09/95	35	0	0	0	6	1	7
10/09/95	23	0	0	0	1	1	2
11/09/95	16	0	0	0	3	2	5
12/09/95	28	0	0	0	4	5	9
13/09/95	37	1	0	1	3	16	19
14/09/95	39	0	0	0	8	5	13
15/09/95	34	0	0	0	0	5	5
16/09/95	16	0	0	0	1	1	2
17/09/95	13	0	0	0	0	0	0
18/09/95	23	0	0	0	0	2	2
19/09/95	24	0	0	0	0	1	1
20/09/95	15	0	0	0	0	1	1
21/09/95	14	0	0	0	0	0	0
22/09/95	5	0	0	0	0	0	0
23/09/95	10	0	0	0	0	1	1
24/09/95	8	0	0	0	0	0	0
25/09/95	9	0	0	0	0	0	0
26/09/95	7	0	0	0	0	0	0
27/09/95	11	0	0	0	0	0	0
28/09/95	10	0	0	0	0	0	0
29/09/95	9	0	0	0	0	0	0
30/09/95	9	0	0	0	0	0	0
01/10/95	1	0	0	0	0	0	0
02/10/95	1	0	0	0	0	0	0
03/10/95	3	0	0	0	0	0	0
04/10/95	2	0	0	0	0	0	0
05/10/95	4	0	0	0	0	0	0
06/10/95	4	0	0	0	0	0	0
07/10/95	3	0	0	0	0	0	0
08/10/95	1	0	0	0	0	0	0
09/10/95	2	0	0	0	0	0	0
10/10/95	2	0	0	0	0	0	0
11/10/95	1	0	0	0	0	0	0
12/10/95	2	0	0	0	0	0	0
13/10/95	0	0	0	0	0	0	0
14/10/95	1	0	0	0	0	0	0
15/10/95	2	0	0	0	0	0	0
16/10/95	2	0	0	0	0	0	0
17/10/95	0	0	0	0	0	0	0
18/10/95	0	0	0	0	0	0	0
19/10/95	0	0	0	0	0	0	0
20/10/95	0	0	0	0	0	0	0
Total	4759	414	115	529	440	140	580

(a) Fisherman hours represent total effort applied for all gear types

(b) Daily fisherman hours for 12 - 20 August are based on two 7-h shifts of fishing time for 8 persons per shift = 112 hours.

Appendix F. Coho harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number coho gaffed			Number coho dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
29/06/95	6	0	0	0	0	0	0
30/06/95	3	0	0	0	0	0	0
01/07/95	0	0	0	0	0	0	0
02/07/95	0	0	0	0	0	0	0
03/07/95	9	0	0	0	0	0	0
04/07/95	17	0	0	0	0	0	0
05/07/95	22	0	0	0	0	0	0
06/07/95	46	0	0	0	0	0	0
07/07/95	55	0	0	0	0	0	0
08/07/95	63	0	0	0	0	0	0
09/07/95	90	0	0	0	0	0	0
10/07/95	49	0	0	0	0	0	0
11/07/95	6	0	0	0	0	0	0
12/07/95	27	0	0	0	0	0	0
13/07/95	38	0	0	0	0	0	0
14/07/95	81	0	0	0	0	0	0
15/07/95	29	0	0	0	0	0	0
16/07/95	66	0	0	0	0	0	0
17/07/95	105	0	0	0	0	3	3
18/07/95	130	0	0	0	0	0	0
19/07/95	117	0	0	0	0	0	0
20/07/95	109	0	0	0	0	0	0
21/07/95	76	0	0	0	0	0	0
22/07/95	28	0	0	0	0	0	0
23/07/95	38	0	0	0	0	0	0
24/07/95	51	0	0	0	0	0	0
25/07/95	112	0	0	0	0	0	0
26/07/95	90	0	0	0	0	0	0
27/07/95	63	0	0	0	1	0	1
28/07/95	73	0	0	0	0	0	0
29/07/95	69	0	0	0	0	0	0
30/07/95	69	0	0	0	0	0	0
31/07/95	73	0	0	0	7	0	7
01/08/95	68	0	0	0	1	0	1
02/08/95	65	0	0	0	2	0	2
03/08/95	86	0	0	0	2	0	2
04/08/95	72	1	0	1	2	0	2
05/08/95	71	1	0	1	10	0	10
06/08/95	82	1	0	1	1	0	1
07/08/95	91	0	0	0	1	0	1
08/08/95	93	6	0	6	6	1	7
09/08/95	97	0	0	0	13	1	14
10/08/95	100	0	0	0	11	1	12
11/08/95	60	1	0	1	8	9	17
12/08/95	112 (b)	0	0	0	1	5	6
13/08/95	112 (b)	1	0	1	3	9	12
14/08/95	112 (b)	0	0	0	0	3	3
15/08/95	112 (b)	0	0	0	0	17	17
16/08/95	112 (b)	0	0	0	2	12	14
17/08/95	112 (b)	0	0	0	0	23	23
18/08/95	112 (b)	0	0	0	1	7	8
19/08/95	112 (b)	0	0	0	1	34	35
20/08/95	112 (b)	0	0	0	2	16	18
21/08/95	28	0	0	0	9	13	22
22/08/95	52	0	0	0	42	6	48
23/08/95	50	0	0	0	33	4	37
24/08/95	68	0	0	0	27	1	28
25/08/95	48	0	0	0	20	9	29
26/08/95	21	0	0	0	3	4	7
27/08/95	18	0	0	0	5	0	5

Appendix F. Coho harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number coho gaffed			Number coho dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
28/08/95	28	0	0	0	18	2	20
29/08/95	25	0	0	0	13	1	14
30/08/95	44	0	0	0	22	2	24
31/08/95	37	0	0	0	19	1	20
01/09/95	23	0	0	0	11	0	11
02/09/95	29	0	0	0	26	2	28
03/09/95	18	4	0	4	7	2	9
04/09/95	33	0	0	0	17	1	18
05/09/95	26	0	0	0	23	2	25
06/09/95	26	6	0	6	11	0	11
07/09/95	28	4	2	6	6	4	10
08/09/95	32	0	0	0	20	3	23
09/09/95	35	2	0	2	7	0	7
10/09/95	23	0	0	0	13	1	14
11/09/95	16	4	2	6	13	1	14
12/09/95	28	2	1	3	11	2	13
13/09/95	37	0	0	0	10	9	19
14/09/95	39	1	0	1	0	3	3
15/09/95	34	0	0	0	2	0	2
16/09/95	16	0	0	0	3	2	5
17/09/95	13	0	0	0	6	1	7
18/09/95	23	0	0	0	6	0	6
19/09/95	24	0	0	0	0	1	1
20/09/95	15	0	0	0	2	0	2
21/09/95	14	0	0	0	2	0	2
22/09/95	5	0	0	0	1	0	1
23/09/95	10	0	0	0	1	0	1
24/09/95	8	0	0	0	1	0	1
25/09/95	9	0	0	0	2	0	2
26/09/95	7	0	0	0	1	0	1
27/09/95	11	0	0	0	6	0	6
28/09/95	10	0	0	0	1	0	1
29/09/95	9	0	0	0	1	0	1
30/09/95	9	0	0	0	1	0	1
01/10/95	1	0	0	0	0	0	0
02/10/95	1	0	0	0	0	0	0
03/10/95	3	0	0	0	0	0	0
04/10/95	2	0	0	0	0	0	0
05/10/95	4	0	0	0	0	0	0
06/10/95	4	0	0	0	0	0	0
07/10/95	3	0	0	0	0	0	0
08/10/95	1	0	0	0	0	0	0
09/10/95	2	0	0	0	0	0	0
10/10/95	2	0	0	0	0	0	0
11/10/95	1	0	0	0	0	0	0
12/10/95	2	0	0	0	0	0	0
13/10/95	0	0	0	0	0	0	0
14/10/95	1	0	0	0	0	0	0
15/10/95	2	0	0	0	0	0	0
16/10/95	2	0	0	0	0	0	0
17/10/95	0	0	0	0	0	0	0
18/10/95	0	0	0	0	0	0	0
19/10/95	0	0	0	0	0	0	0
20/10/95	0	0	0	0	0	0	0
Total	4759	34	5	39	497	218	715

(a) Fisherman hours represent total effort applied for all gear types

(b) Daily fisherman hours for 12 - 20 August are based on two 7-h shifts of fishing time for 8 persons per shift = 112 hours.

Appendix G. Sockeye harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number sockeye gaffed			Number sockeye dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
29/06/95	6	0	0	0	0	0	0
30/06/95	3	0	0	0	0	0	0
01/07/95	0	0	0	0	0	0	0
02/07/95	0	0	0	0	0	0	0
03/07/95	9	2	0	2	8	0	8
04/07/95	17	3	2	5	23	1	24
05/07/95	22	10	0	10	61	1	62
06/07/95	46	19	0	19	127	2	129
07/07/95	55	23	2	25	145	4	149
08/07/95	63	8	1	9	205	5	210
09/07/95	90	2	1	3	239	1	240
10/07/95	49	2	1	3	163	3	166
11/07/95	6	0	0	0	4	0	4
12/07/95	27	1	1	2	44	1	45
13/07/95	38	1	0	1	62	0	62
14/07/95	81	1	0	1	231	3	234
15/07/95	29	3	0	3	91	0	91
16/07/95	66	4	2	6	207	3	210
17/07/95	105	11	0	11	445	19	464
18/07/95	130	20	2	22	594	2	596
19/07/95	117	13	3	16	766	58	824
20/07/95	109	10	17	27	773	3	776
21/07/95	76	4	0	4	582	0	582
22/07/95	28	5	0	5	228	4	232
23/07/95	38	1	0	1	123	0	123
24/07/95	51	2	0	2	219	0	219
25/07/95	112	9	0	9	625	0	625
26/07/95	90	8	0	8	664	63	727
27/07/95	63	3	2	5	459	67	526
28/07/95	73	6	0	6	406	4	410
29/07/95	69	12	2	14	439	4	443
30/07/95	69	4	0	4	358	4	362
31/07/95	73	6	1	7	420	4	424
01/08/95	68	13	0	13	673	58	731
02/08/95	65	7	1	8	586	64	650
03/08/95	86	4	1	5	561	31	592
04/08/95	72	4	2	6	607	8	615
05/08/95	71	6	1	7	444	19	463
06/08/95	82	3	1	4	344	1	345
07/08/95	91	17	3	20	248	1	249
08/08/95	93	19	3	22	405	22	427
09/08/95	97	6	6	12	407	43	450
10/08/95	100	6	0	6	291	2	293
11/08/95	60	23	3	26	351	1	352
12/08/95	112 (b)	13	0	13	122	1	123
13/08/95	112 (b)	3	0	3	275	25	300
14/08/95	112 (b)	0	0	0	323	70	393
15/08/95	112 (b)	0	0	0	138	28	166
16/08/95	112 (b)	0	0	0	168	18	186
17/08/95	112 (b)	0	0	0	179	11	190
18/08/95	112 (b)	0	0	0	204	14	218
19/08/95	112 (b)	0	0	0	192	15	207
20/08/95	112 (b)	0	0	0	126	3	129
21/08/95	28	0	0	0	16	21	37
22/08/95	52	0	0	0	39	5	44
23/08/95	50	0	0	0	9	38	47
24/08/95	68	0	0	0	42	12	54
25/08/95	48	0	0	0	40	4	44
26/08/95	21	0	0	0	17	0	17
27/08/95	18	0	0	0	15	1	16

Appendix G. Sockeye harvest and release data, by gear type and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number sockeye gaffed			Number sockeye dipnetted		
		Harvested	Released	Total	Harvested	Released	Total
28/08/95	28	0	0	0	14	0	14
29/08/95	25	0	0	0	2	0	2
30/08/95	44	0	0	0	20	2	22
31/08/95	37	0	0	0	6	1	7
01/09/95	23	0	0	0	1	0	1
02/09/95	29	0	0	0	1	1	2
03/09/95	18	0	0	0	8	0	8
04/09/95	33	0	0	0	7	0	7
05/09/95	26	0	0	0	4	3	7
06/09/95	26	0	0	0	0	0	0
07/09/95	28	0	0	0	1	1	2
08/09/95	32	0	0	0	1	2	3
09/09/95	35	1	0	1	1	1	2
10/09/95	23	0	0	0	0	0	0
11/09/95	16	0	0	0	0	0	0
12/09/95	28	0	0	0	0	3	3
13/09/95	37	0	0	0	0	4	4
14/09/95	39	0	0	0	0	4	4
15/09/95	34	0	0	0	0	0	0
16/09/95	16	0	0	0	0	1	1
17/09/95	13	0	0	0	0	0	0
18/09/95	23	0	0	0	0	0	0
19/09/95	24	0	0	0	0	0	0
20/09/95	15	0	0	0	0	0	0
21/09/95	14	0	0	0	0	0	0
22/09/95	5	0	0	0	0	0	0
23/09/95	10	0	0	0	0	1	1
24/09/95	8	0	0	0	0	0	0
25/09/95	9	0	0	0	0	0	0
26/09/95	7	0	0	0	0	0	0
27/09/95	11	0	0	0	0	0	0
28/09/95	10	0	0	0	0	0	0
29/09/95	9	0	0	0	0	0	0
30/09/95	9	0	0	0	0	0	0
01/10/95	1	0	0	0	0	0	0
02/10/95	1	0	0	0	0	0	0
03/10/95	3	0	0	0	0	0	0
04/10/95	2	0	0	0	0	0	0
05/10/95	4	0	0	0	0	0	0
06/10/95	4	0	0	0	0	0	0
07/10/95	3	0	0	0	0	0	0
08/10/95	1	0	0	0	0	0	0
09/10/95	2	0	0	0	0	0	0
10/10/95	2	0	0	0	0	0	0
11/10/95	1	0	0	0	0	0	0
12/10/95	2	0	0	0	0	0	0
13/10/95	0	0	0	0	0	0	0
14/10/95	1	0	0	0	0	0	0
15/10/95	2	0	0	0	0	0	0
16/10/95	2	0	0	0	0	0	0
17/10/95	0	0	0	0	0	0	0
18/10/95	0	0	0	0	0	0	0
19/10/95	0	0	0	0	0	0	0
20/10/95	0	0	0	0	0	0	0
Total	4759	318	58	376	15599	796	16395

(a) Fisherman hours represent total effort applied for all gear types

(b) Daily fisherman hours for 12 - 20 August are based on two 7-h shifts of fishing time for 8 persons per shift = 112 hours.

Appendix H. Pink salmon harvest and release data, by gear type, harvest type (for dipnet only; food or ESSR) and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number pink salmon dipnetted						
		Number pink salmon gaffed			Harvested			
		Harvested	Released	Total	Food	ESSR	Released	Total
29/06/95	6	0	0	0	0	0	0	0
30/06/95	3	0	0	0	0	0	0	0
01/07/95	0	0	0	0	0	0	0	0
02/07/95	0	0	0	0	0	0	0	0
03/07/95	9	0	0	0	0	0	0	0
04/07/95	17	0	0	0	0	0	0	0
05/07/95	22	0	0	0	0	0	0	0
06/07/95	46	0	0	0	0	0	0	0
07/07/95	55	0	0	0	0	0	0	0
08/07/95	63	0	0	0	0	0	0	0
09/07/95	90	0	0	0	0	0	0	0
10/07/95	49	0	0	0	0	0	0	0
11/07/95	6	0	0	0	0	0	0	0
12/07/95	27	0	0	0	0	0	0	0
13/07/95	38	0	0	0	0	0	0	0
14/07/95	81	0	0	0	0	0	0	0
15/07/95	29	0	0	0	0	0	0	0
16/07/95	66	0	0	0	0	0	0	0
17/07/95	105	0	0	0	0	0	1	1
18/07/95	130	0	0	0	0	0	6	6
19/07/95	117	0	0	0	0	0	10	10
20/07/95	109	0	0	0	1	0	15	16
21/07/95	76	0	0	0	0	0	32	32
22/07/95	28	0	0	0	0	0	23	23
23/07/95	38	0	0	0	1	0	23	24
24/07/95	51	0	0	0	31	0	10	41
25/07/95	112	0	0	0	18	0	136	154
26/07/95	90	0	2	2	4	0	224	228
27/07/95	63	0	0	0	1	0	354	355
28/07/95	73	0	0	0	12	0	344	356
29/07/95	69	0	0	0	0	0	237	237
30/07/95	69	0	6	6	0	0	285	285
31/07/95	73	0	0	0	0	0	337	337
01/08/95	68	0	0	0	46	0	426	472
02/08/95	65	3	0	3	1	0	381	382
03/08/95	86	0	0	0	0	0	295	295
04/08/95	72	1	0	1	0	0	412	412
05/08/95	71	0	0	0	10	0	368	378
06/08/95	82	0	2	2	0	0	399	399
07/08/95	91	3	11	14	2	0	230	232
08/08/95	93	3	4	7	0	0	511	511
09/08/95	97	4	3	7	41	0	353	394
10/08/95	100	12	4	16	0	0	764	764
11/08/95	60	0	9	9	2	0	464	466
12/08/95	112 (b)	2	4	6	0	1000	406	1406
13/08/95	112 (b)	6	1	7	0	7432	21	7453
14/08/95	112 (b)	1	0	1	0	15968	0	15968
15/08/95	112 (b)	0	0	0	0	11606	925	12531
16/08/95	112 (b)	0	0	0	0	10400	1702	12102
17/08/95	112 (b)	0	0	0	0	11400	1552	12952
18/08/95	112 (b)	0	0	0	0	10280	929	11209
19/08/95	112 (b)	0	0	0	0	10580	721	11301
20/08/95	112 (b)	0	0	0	0	9080	334	9414
21/08/95	28	0	0	0	0	88	374	462
22/08/95	52	0	0	0	0	264	577	841
23/08/95	50	0	0	0	0	15	802	817
24/08/95	68	0	0	0	0	481	869	1350
25/08/95	48	0	3	3	0	318	447	765
26/08/95	21	0	0	0	0	282	228	510
27/08/95	18	0	0	0	0	204	230	434

Appendix H. Pink salmon harvest and release data, by gear type, harvest type (for dipnet only; food or ESSR) and date, at Moricetown fishway from 29 July - 20 October 1995.

Date	Fisherman hours (a)	Number pink salmon dipnetted						
		Number pink salmon gaffed			Harvested			
		Harvested	Released	Total	Food	ESSR	Released	Total
28/08/95	28	0	0	0	0	0	233	233
29/08/95	25	0	0	0	0	1	340	341
30/08/95	44	0	0	0	0	1	544	545
31/08/95	37	0	0	0	0	600 (c)	389	989
01/09/95	23	0	0	0	0	0	62	62
02/09/95	29	0	0	0	44	0	349	393
03/09/95	18	0	0	0	63	0	83	146
04/09/95	33	0	0	0	1	0	382	383
05/09/95	26	0	0	0	0	0	388	388
06/09/95	26	0	1	1	0	0	119	119
07/09/95	28	0	0	0	0	0	142	142
08/09/95	32	0	0	0	0	0	209	209
09/09/95	35	0	1	1	0	0	89	89
10/09/95	23	0	0	0	0	0	48	48
11/09/95	16	0	1	1	0	0	66	66
12/09/95	28	0	0	0	0	0	76	76
13/09/95	37	0	0	0	0	0	72	72
14/09/95	39	0	0	0	2	0	52	54
15/09/95	34	0	0	0	0	0	16	16
16/09/95	16	0	0	0	0	0	17	17
17/09/95	13	0	0	0	0	0	15	15
18/09/95	23	0	0	0	0	0	19	19
19/09/95	24	0	0	0	1	0	8	9
20/09/95	15	0	0	0	0	0	9	9
21/09/95	14	0	0	0	4	0	11	15
22/09/95	5	0	0	0	0	0	6	6
23/09/95	10	0	0	0	0	0	4	4
24/09/95	8	0	0	0	1	0	0	1
25/09/95	9	0	0	0	0	0	9	9
26/09/95	7	0	0	0	0	0	4	4
27/09/95	11	0	0	0	0	0	6	6
28/09/95	10	0	0	0	0	0	0	0
29/09/95	9	0	0	0	0	0	0	0
30/09/95	9	0	0	0	0	0	0	0
01/10/95	1	0	0	0	0	0	0	0
02/10/95	1	0	0	0	0	0	0	0
03/10/95	3	0	0	0	0	0	0	0
04/10/95	2	0	0	0	0	0	0	0
05/10/95	4	0	0	0	0	0	0	0
06/10/95	4	0	0	0	0	0	0	0
07/10/95	3	0	0	0	0	0	0	0
08/10/95	1	0	0	0	0	0	0	0
09/10/95	2	0	0	0	0	0	0	0
10/10/95	2	0	0	0	0	0	0	0
11/10/95	1	0	0	0	0	0	0	0
12/10/95	2	0	0	0	0	0	0	0
13/10/95	0	0	0	0	0	0	0	0
14/10/95	1	0	0	0	0	0	0	0
15/10/95	2	0	0	0	0	0	0	0
16/10/95	2	0	0	0	0	0	0	0
17/10/95	0	0	0	0	0	0	0	0
18/10/95	0	0	0	0	0	0	0	0
19/10/95	0	0	0	0	0	0	0	0
20/10/95	0	0	0	0	0	0	0	0
Total	4759	35	52	87	286	90000	20524	110810

(a) Fisherman hours represent total effort applied for all gear types

(b) Daily fisherman hours for 12 - 20 August are based on two 7-h shifts of fishing time for 8 persons per shift = 112 hours.

(c) Approximately 600 pink salmon were harvested under ESSR from 20 - 31 August