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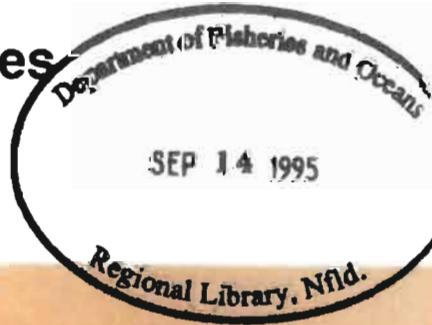
Juvenile Chinook Sampling Data, Chilcotin River System, British Columbia, 1994

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1995

**Canadian Data Report of Fisheries
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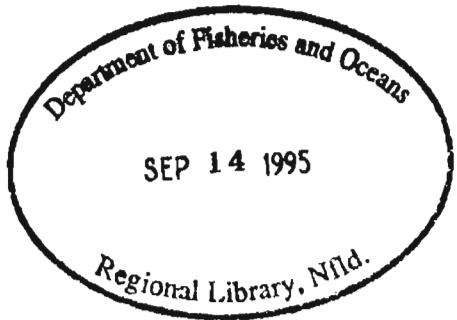
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JUVENILE CHINOOK SAMPLING DATA, CHILCOTIN RIVER SYSTEM, BRITISH
COLUMBIA, 1994

by

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ABSTRACT

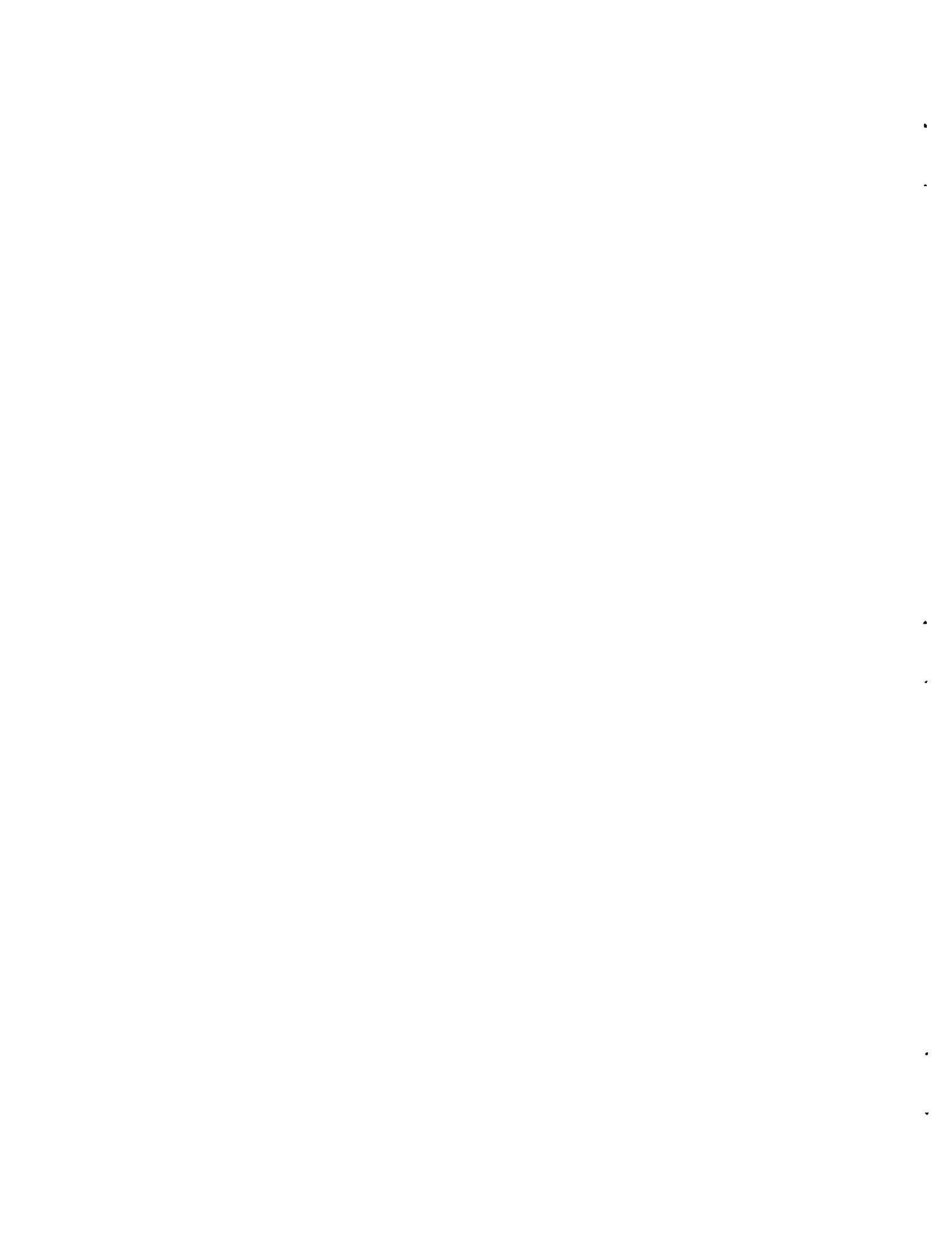
Taylor, G.C., J.A. Allan, and M.J. Bradford. 1995. Juvenile chinook sampling data, Chilcotin River system, British Columbia, 1994. Can. Data. Rep. Fish. Aquat. Sci. 952: 34p.

This report gives data from a study of the freshwater population biology of chinook salmon from the Chilcotin River system in central British Columbia. The outmigration of juvenile chinook salmon in 1994 was monitored with rotary auger and inclined plane traps in conjunction with extensive beach seining. Catches of chinook fry and smolts from both downstream trapping and seining are reported along with associated length and weight data. Incidental catches of other fish species are also included.

RÉSUMÉ

Taylor, G.C., J.A. Allan, and M.J. Bradford. 1995. Juvenile chinook sampling data, Chilcotin River system, British Columbia, 1994. Can. Data. Rep. Fish. Aquat. Sci. 952: 34p.

Le rapport fournit des données sur la biologie de la population d'eau douce de saumons quinnat fréquentant le bassin de la rivière Chilcotin, dans le centre de la Colombie-Britannique. La dévalaison du saumon quinnat juvénile a été suivie en 1994 à l'aide de vis sans fin et de pièges à plan incliné combinés à la pêche à la senne de rivage. On donne les prises d'alevins et de saumoneaux de quinnat par piégeage et pêche à la senne en aval, de même que les données sur la longueur et le poids. Les prises accidentelles d'autres espèces de poisson sont également indiquées.



INTRODUCTION

In the Fraser River watershed, the majority of chinook salmon (*Oncorhynchus tshawytscha*) populations have the 'stream-type' life history where juveniles spend 1 or more years rearing in freshwater (Taylor 1990). However, little is known about the details of the freshwater life history and habitat use for these stocks. Such information is required by habitat managers, to make decisions about land-use practices and development proposals that could impact freshwater habitats. In addition, knowledge of the population dynamics will aid fisheries managers in setting escapement targets to optimize production from these stocks.

In 1994, under the auspices of the Fraser River Action Plan, a detailed investigation of the juvenile chinook population of the Chilko and Chilcotin Rivers, B.C. was initiated to address these knowledge gaps. This system was chosen because it is large, and has a sizeable spawner population (1974-1991 mean 7617 spawners [Bradford 1994]). Data collected here will be eventually contrasted to those from a small system (Slim Creek, Taylor et al. 1994). The goals of the program were to estimate the timing of the juvenile chinook migration through the system in the spring and summer and to estimate the relative abundance and size of rearing chinook in various sections of the system during this period.

In this data report, the methods of the 1994 fry and smolt trapping program and rearing studies are provided, along with tables of catch data and fish size data from both downstream trapping and beach seining.

STUDY AREA

The Chilcotin River watershed is located approximately 40 km southwest of Williams Lake, B.C. Draining a total area of approximately 20,000 km², the Chilcotin River originates from headwaters near Itcha Lake and flows in a generally eastward direction for approximately 300 km to its confluence with the Fraser River (Figure 1). The Chilko River is the major tributary of the Chilcotin, flowing northward out of Chilko Lake (length 65 km; area 18,500 ha) for 67 km, joining the Chilcotin River 108 km upstream of the Fraser River. The mean annual discharge of the Chilcotin River below Big Creek (gauging station 08MB005) is 96.2 m³/s (Environment Canada 1989). There are two major populations of chinook salmon spawning in the watershed: 1) Chilcotin stock using the upper Chilcotin River, normally within 36 km upstream of the confluence of the Chilko River, and 2) the Chilko River stock that spawns immediately below Chilko Lake. Smaller populations use the Taseko drainage (Fish Habitat Inventory and Information Program 1990).

METHODS

Descriptions of variables and species codes presented in this report are shown in Tables 1 and 2.

DOWNSTREAM MIGRANT TRAPPING

Downstream trapping was conducted at three sites to monitor the outmigration of chinook juveniles from three distinct areas within the watershed. Individual inclined plane traps (IPT) were placed both below the main area of spawning downstream of Chilko Lake as well as on the upper Chilcotin River upstream of the Chilko River confluence (Figure 1). An IPT and a rotary auger trap were positioned in Farwell Canyon close to the Fraser confluence to monitor juvenile chinook leaving the system.

The trap located below Chilko Lake was a 2' x 3' IPT as described in Conlin and Tutty (1979). This trap was installed approximately 10 km downstream of the lake suspended from a bridge at Henry's Crossing and was operated as close to the left bank as possible. This trap was run every third night between April 27 and May 18 to index the outmigration from the main spawning area.

The single IPT on the upper Chilcotin River upstream of the Chilko confluence was used to determine the contribution of the upper Chilcotin to the juvenile chinook migration in the entire system. This trap was suspended from the Highway 20 bridge, 10 km east of the Redstone Indian Reservation and was fished as close as possible to the left streambank. Trapping was conducted every fourth night between April 28 and July 12.

The traps used at the Farwell Canyon site consisted of a 2' x 3' IPT and a 5' rotary auger trap as described in Duff et al. (1992). The rotary auger trap was installed first and run on alternate nights between April 14 and June 28. The IPT commenced operation on April 15 and was run every other night along side the rotary trap until July 11. Dangerously high water levels threatened the operation of the rotary trap and consequently it was removed before the IPT. Both traps were positioned in a sidechannel between a small island and the right bank. Early in the season when the water level was low, the rotary trap was fished next to the island with the IPT on the shoreline side of the rotary trap. As the water level increased, the current next to the island became too strong and both traps had to be fished closer to the shore.

Initially both traps were operated through the night and catches were analyzed the following morning. However, abundant floating debris associated with increasing discharge during freshet made it difficult to run the traps when field personnel were not present. After

April, the traps were operated for two consecutive hours immediately after dusk while being continuously attended by field personnel. On a few nights late in the sampling period, both traps were fished through the night to provide comparisons of total night catches with the two hour night catches.

At the end of the fishing period, the catch was removed and all fish were enumerated. Chinook juveniles were identified as fry or smolts based on fork length. Once a week, a subsample of chinook from each trap was measured (fork length) and weighed (wet weight) after being anaesthetized in a bucket using a solution of 5 g of Bromoseltzer in 5 L of river water. Sampled fish were measured to the nearest millimetre, weighed to the nearest 0.1 or 0.01 gram, then revived in a bucket of fresh river water before being released back into the river. Catch data are shown in Tables 3 to 5 and Figures 2 to 5. Length and weight data are shown in Tables 6 to 10.

Water temperatures were recorded at the Farwell Canyon trap site using an ACR Systems Smartreader 1 temperature logger. Daily means were calculated from observations recorded by the data logger at two minute intervals and are shown in Figure 6. Water temperatures and stream depths were also recorded at the upper Chilcotin River IPT site using a hand held thermometer and a stream gauge. Discharge data obtained from Environment Canada (unpubl. data) are illustrated in Figure 7.

BEACH SEINING

Beach seining was conducted throughout the watershed during the outmigration. Seining locations and their distances from the mouth of the Chilcotin River are shown in Table 11. The watershed was divided into eight areas with two or three seining sites within each area. Each site was sampled at irregular intervals between April 24 and October 13. As the water level rose, some sites were not used or altered in their location due to inaccessibility.

At each sample site, up to three sets were performed using a 15 m long by 2 m deep beach seine with 5 m wings of 12 mm stretched mesh and a 5 m bunt of 8 mm stretched mesh. Sets were made from the streambank on foot and individual sets were tabulated separately. The distance each set was made offshore depended upon the slope of the shoreline but was usually about 5 m. Fish caught in each set were enumerated to species and chinook juveniles were designated fry or smolts based on fork length and a subsample was measured and weighed using methods described above for downstream trapping. Results are shown in Tables 12 to 14. Water temperatures were recorded in each area using a hand-held thermometer.

ACKNOWLEDGEMENTS

Funding for this project was provided by the Fraser River Action Plan. We would like to thank F. Chan, B. Baxter, J. Grout, and P. Grout for their assistance with the field work. J. Alphonse, P. Harvey, M. Kendall, and J. Michie provided valuable information about the watershed.

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LIST OF FIGURES

- FIGURE 1. Downstream trapping and beach seining sites in the Chilcotin watershed.
- FIGURE 2. Two hour night catches of juvenile chinook salmon - Chilko River IPT 1994, showing the catch of 0+ chinook fry and smolts (presumed 1+).
- FIGURE 3. Two hour night catches of juvenile chinook salmon - upper Chilcotin River IPT 1994, showing the catch of 0+ chinook fry and smolts (presumed 1+).
- FIGURE 4. Two hour night catches of chinook salmon fry - Farwell Canyon 1994, showing catches from the IPT and rotary auger trap.
- FIGURE 5. Two hour night catches of chinook salmon fry - Farwell Canyon 1994, showing catches from the IPT and rotary auger trap.
- FIGURE 6. Daily mean water temperatures in the Chilcotin River at Farwell Canyon.
- FIGURE 7. Daily mean discharges at three locations in the Chilcotin watershed.

LIST OF TABLES

- TABLE 1. Description of the variables presented in the downstream trapping and beach seine data from the Chilcotin River system (Tables 3-14) 1994.
- TABLE 2. Scientific names, common names, and species codes of fishes collected from the Chilcotin River system 1994.
- TABLE 3. Catch data from Chilko River IPT 1994.
- TABLE 4. Catch data from upper Chilcotin River IPT 1994.
- TABLE 5. Catch data from Farwell Canyon rotary auger trap and IPT 1994.
- TABLE 6. Length data of chinook juveniles from Chilko River IPT 1994.
- TABLE 7. Length data of chinook juveniles from upper Chilcotin River IPT 1994.
- TABLE 8. Length data of chinook juveniles from Farwell Canyon rotary auger trap and IPT 1994.
- TABLE 9. Weight data of chinook juveniles from upper Chilcotin River IPT 1994.
- TABLE 10. Weight data of chinook juveniles from Farwell Canyon rotary auger trap and IPT 1994.
- TABLE 11. Chilcotin watershed beach seine sites, codes, and distances upstream from the confluence with the Fraser River 1994.
- TABLE 12. Catch data from Chilcotin watershed beach seining 1994.
- TABLE 13. Length data of salmonid juveniles from Chilcotin watershed beach seining 1994.
- TABLE 14. Weight data of salmonid juveniles from Chilcotin watershed beach seining 1994.

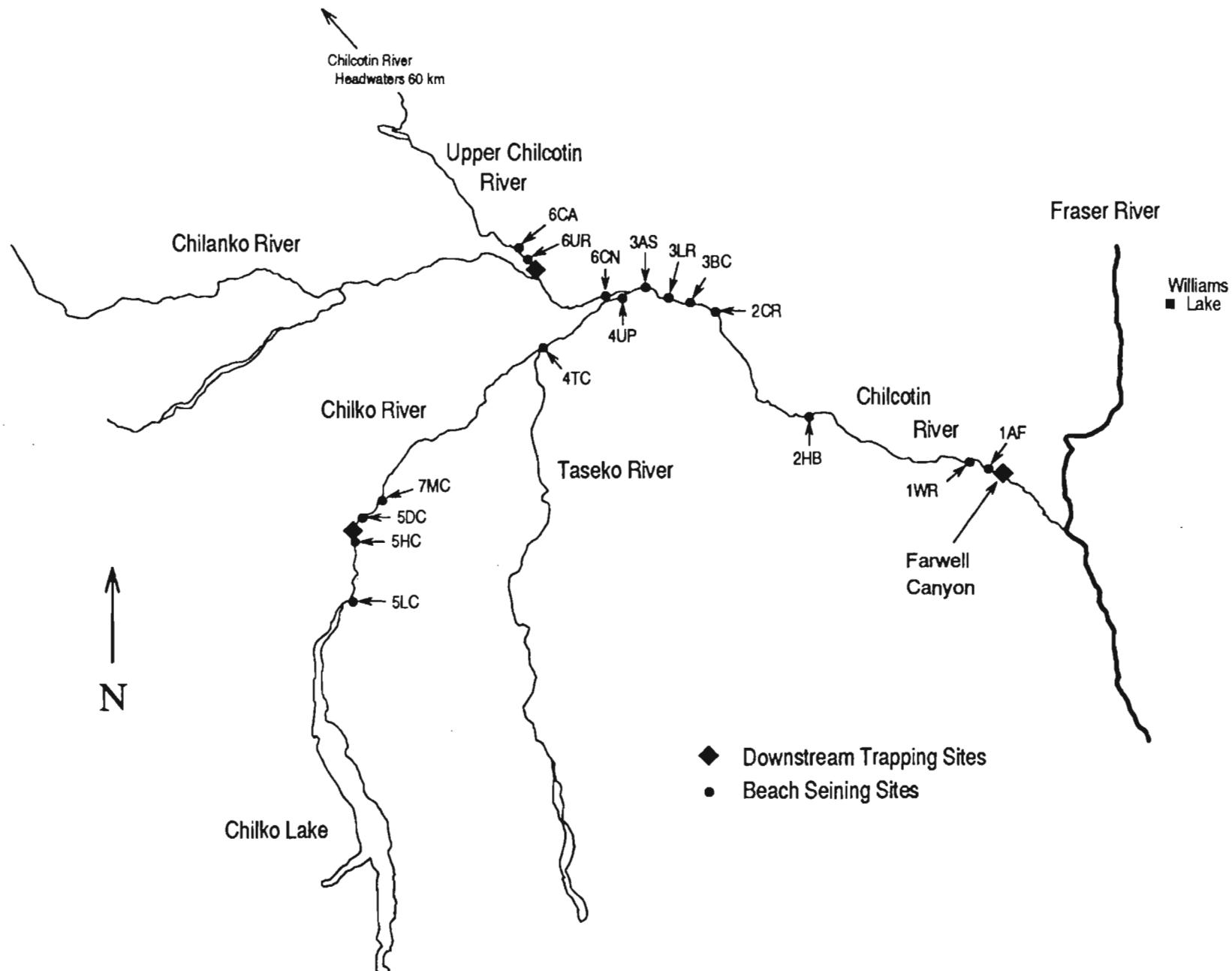


FIG. 1. Downstream trapping and beach seining sites in the Chilcotin watershed.

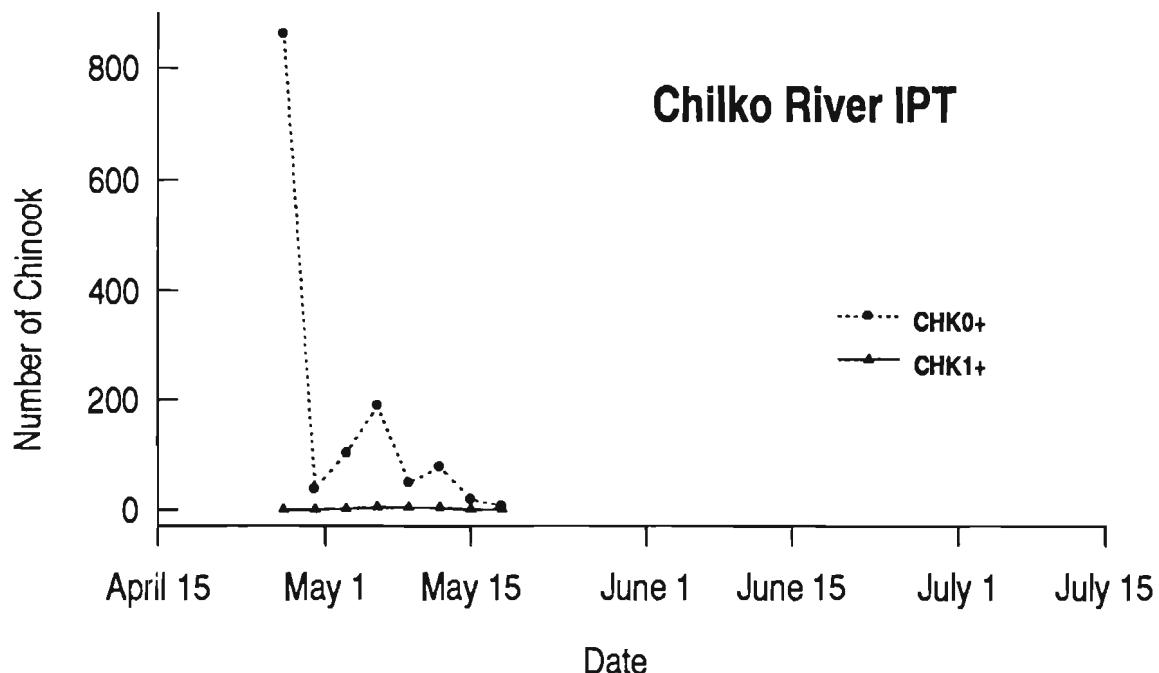


FIG. 2. Two hour night catches of juvenile chinook salmon - Chilko River IPT 1994, showing the catch of 0+ chinook fry and smolts (presumed 1+).

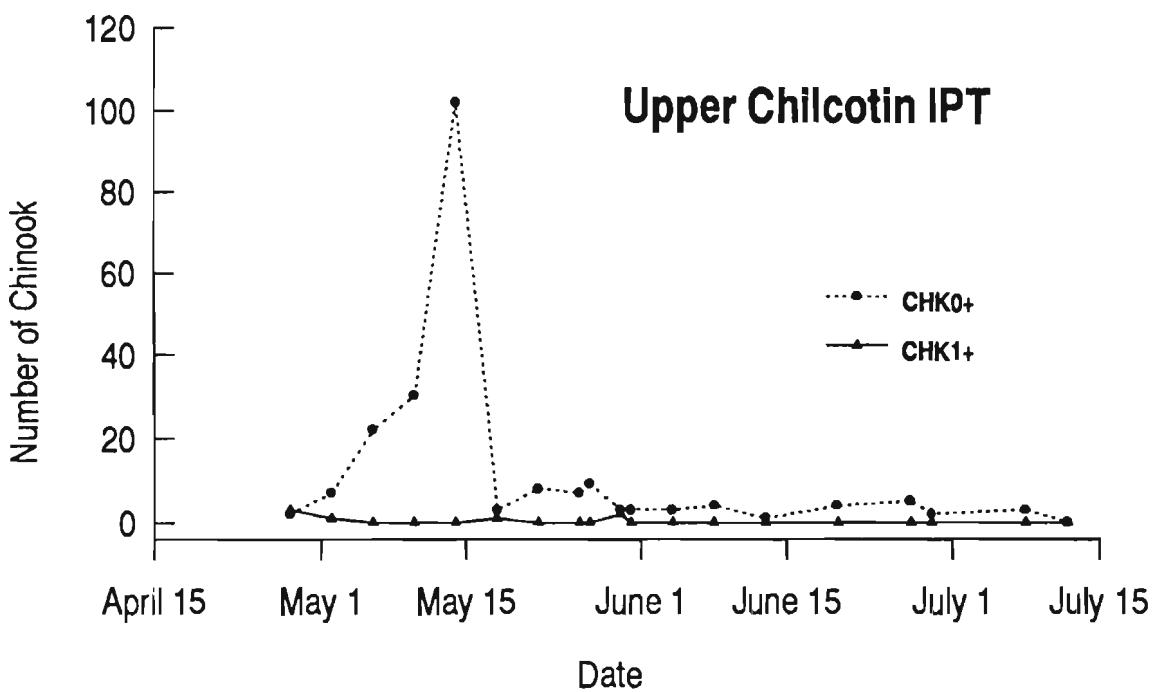


FIG. 3. Two hour night catches of juvenile chinook salmon - upper Chilcotin River IPT 1994, showing the catch of 0+ chinook fry and smolts (presumed 1+).

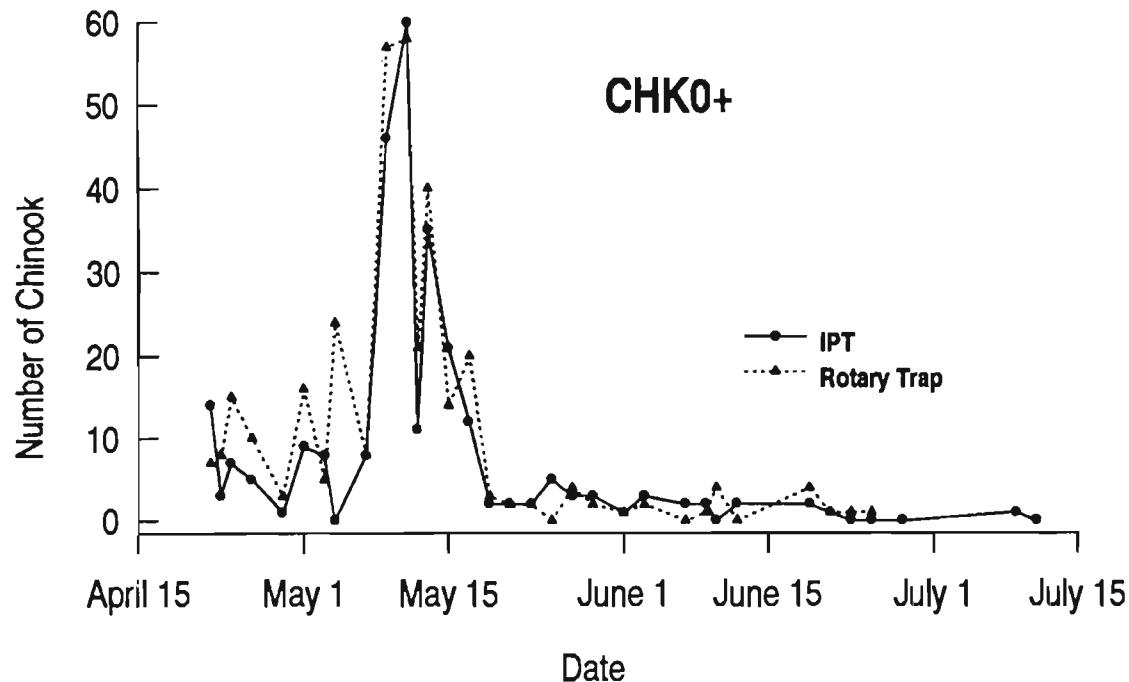


FIG. 4. Two hour night catches of chinook salmon fry - Farwell Canyon 1994, showing catches from the IPT and rotary auger trap.

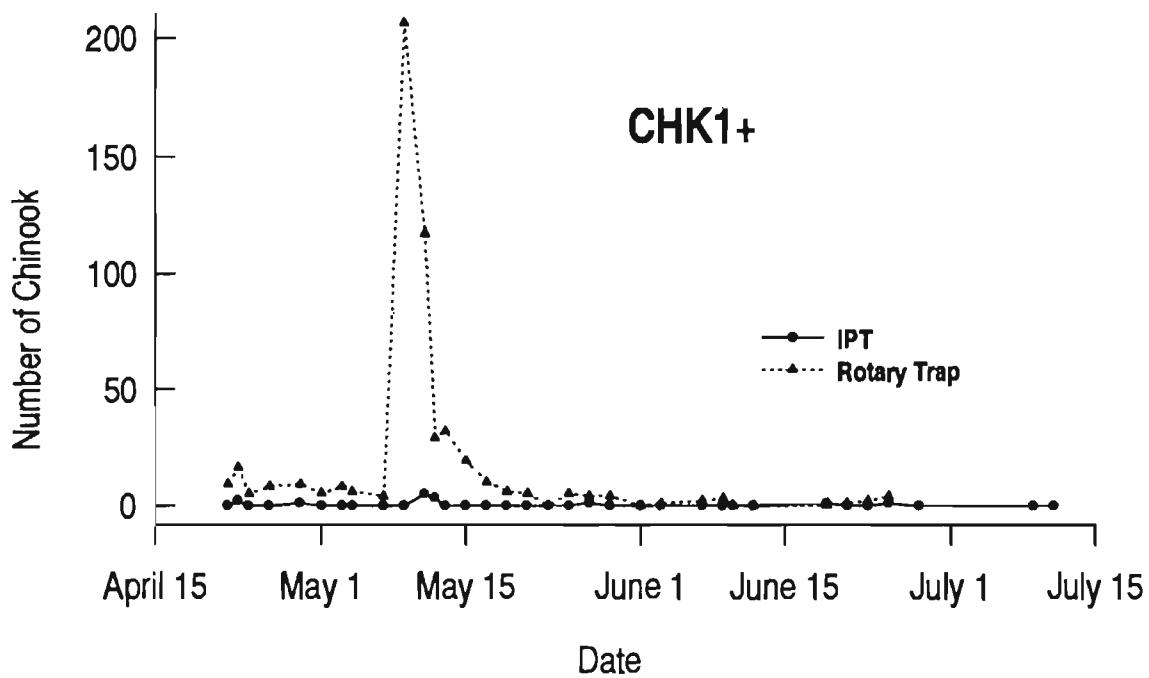


FIG. 5. Two hour night catches of chinook salmon smolts - Farwell Canyon 1994, showing catches from the IPT and rotary auger trap.

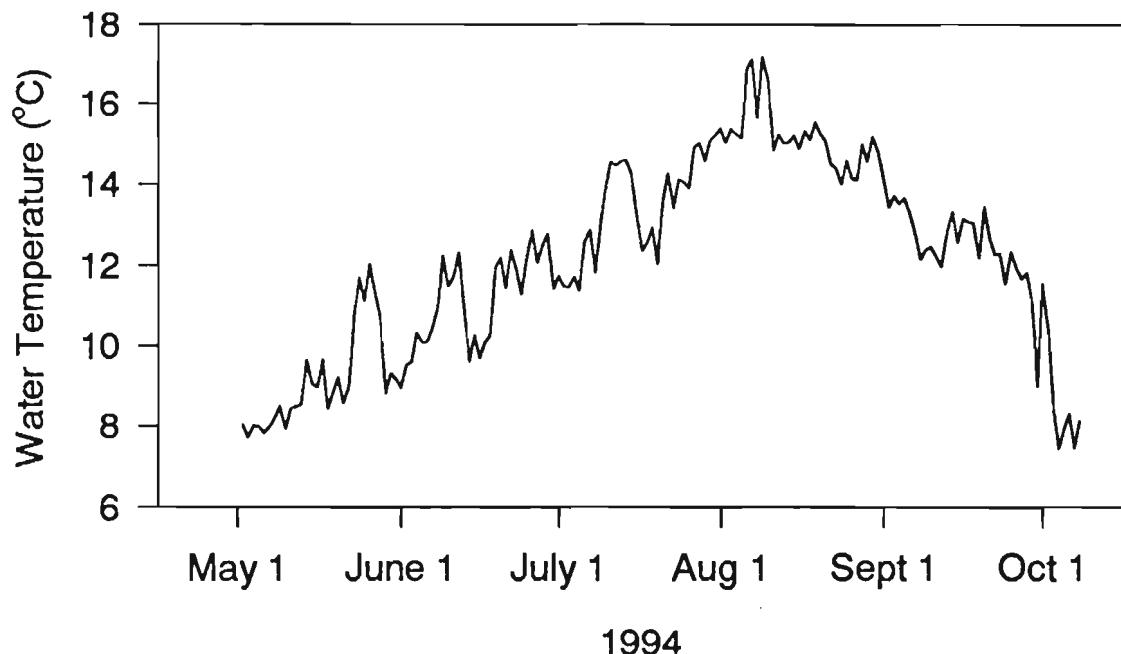


FIG. 6. Daily mean water temperatures in the Chilcotin River at Farwell Canyon.

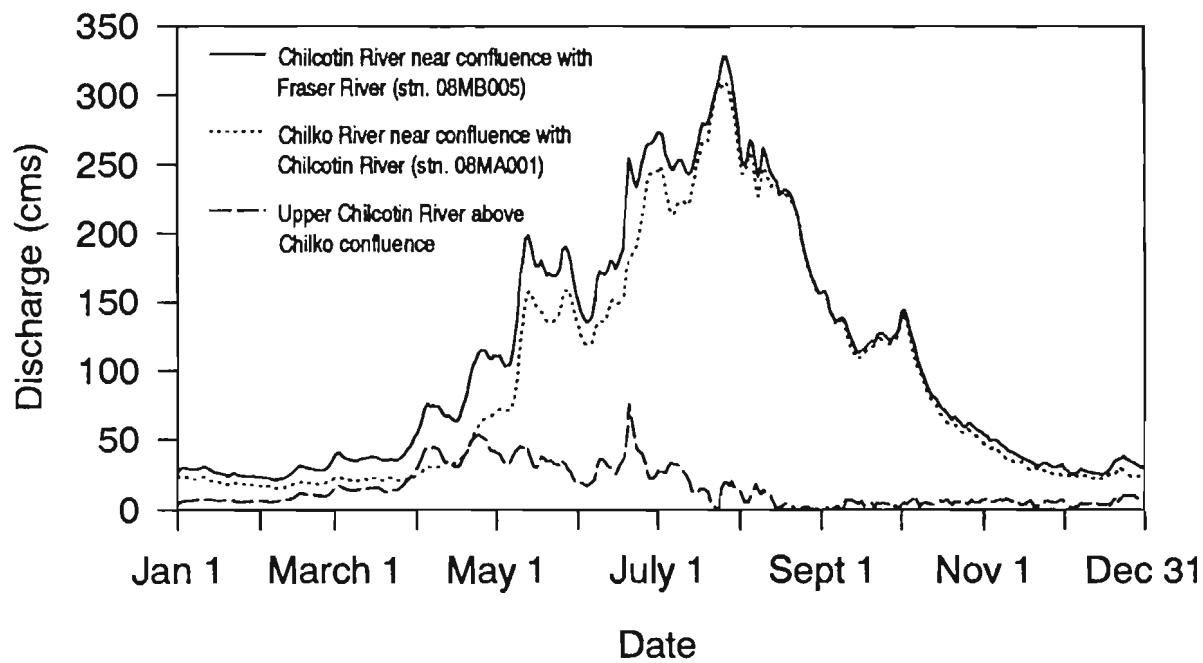


FIG. 7. Daily mean discharges at three locations in the Chilcotin watershed.

Note: upper Chilcotin River discharge values were obtained by subtraction of the Chilko River discharge from the Chilcotin River discharge.

TABLE 1. Description of the variables presented in the downstream trapping and beach seine data from the Chilcotin River system (Tables 3-14) 1994.

VARIABLE	VARIABLE DESCRIPTION
DATE	Date survey or sample was taken
TIME	Time of survey or sample collection (PDT)
TRAP	Trap identification (I = Inclined Plane Trap, R = Rotary Auger Trap, B = Both Traps)
TEMP	Water Temperature in degrees Celsius
DPTH	Water depth in centimeters
AREA	Beach seine area identification number
SITE	Beach seine site identification code
SPEC	Species identification code (from Table 2)

TABLE 2. Scientific names, common names and species codes of fishes collected from the Chilcotin River system 1994. Note: 0+, 1+ or 2+ associated with the species code denotes the age of the fish.

FAMILY AND SCIENTIFIC NAME	COMMON NAME	SPECIES CODE
SALMONIDAE		
<i>Oncorhynchus mykiss</i>	rainbow/steelhead trout	RBT
<i>O. kisutch</i>	coho salmon	COH
<i>O. nerka</i>	sockeye salmon	SOK
<i>O. tshawytscha</i>	chinook salmon	CHK
<i>Prosopium williamsoni</i>	rocky mountain whitefish	WTF
<i>Salvelinus confluentus</i>	bull trout	BT
CYPRINIDAE		
<i>Ptychocheilus oregonensis</i>	northern squawfish	SQU
<i>Richardsonius balteatus</i>	redside shiner	RSS
<i>Rhynichthys cataractae</i>	longnose dace	LOND
<i>Rhynichthys falcatus</i>	leopard dace	LEOD
CATOSTOMIDAE		
COTTIDAE		
PETROMYZONTIDAE		
UNIDENTIFIED	unidentified sucker	SUC
	unidentified sculpin	SCU
	lamprey	LAMP
	lamprey ammocoete	AMM
	unidentified fish	UNID

Table 3. Catch data from Chilko River IPT 1994.

DATE	IN	OUT	TEMP	CHK0+	CHK1+	SOK0+	SOK1+	LOND
TRAP	TRAP							
27-Apr-94	2100	2300	4.5	863	.	10	.	2
30-Apr-94	2058	2257	.	38	.	21	2	.
03-May-94	2100	2300	.	103	2	27	15	.
06-May-94	2100	2300	.	189	5	53	30	41
09-May-94	2115	2315	.	50	4	16	1	.
12-May-94	2115	2315	.	77	4	14	4	.
15-May-94	2115	2315	.	18	.	19	.	1
18-May-94	2115	2315	.	7	1	19	.	.

Table 4. Catch data from upper Chilcotin River IPT 1994.

DATE	IN	OUT	TEMP	DPTH	CHK0+	CHK1+	SOK0+	RBT0+	RSS	WTF0+	LAMP	LEOD	LOND	LARV.	CYP.
TRAP	TRAP														
28-Apr-94	2100	2300	.	58	2	3	.	.	.	.	.	.	.	4	.
02-May-94	2100	2300	.	52	7	1	.	.	.	5	.	.	.	.	.
06-May-94	2125	2330	13.5	50	22	.	.	.	.	1	.	.	.	.	.
10-May-94	2130	2330	12.5	52	30	.	.	.	.	.	.	.	.	.	.
14-May-94	2130	2330	11	50	102	.	.	2	1	.	.	.	.	.	.
18-May-94	2130	2330	11	.	3	1	.	.	.	.	.	.	.	.	.
22-May-94	2130	2330	14	.	8	.	.	.	.	.	.	.	.	.	.
26-May-94	2200	2400	12	.	7	.	6	.	.	.	.	.	.	1	3
27-May-94	.	1000	11	.	9	.	.	.	.	2	.	.	.	.	.
30-May-94	2200	2400	.	.	3	2	.	.	.	.	.	.	.	.	.
31-May-94	.	950	11	.	13	.	.	.	.	.	.	.	.	.	.
31-May-94	2205	2405	.	.	3	.	.	.	.	.	.	.	.	1	.
04-Jun-94	2210	2410	14.5	.	3	.	.	.	.	.	.	.	.	.	.
08-Jun-94	2200	2400	11.5	.	4	.	.	.	.	.	.	.	.	.	1
13-Jun-94	2215	2415	14	.	1	.	.	.	.	.	.	.	.	.	1
20-Jun-94	2225	2425	14	.	4	.	.	.	.	.	.	.	1	.	.
27-Jun-94	2225	2425	19	37	5	.	3	.	.	2	1	.	.	.	.
29-Jun-94	2215	2415	16.5	38	2	.	.	.	.	.	.	.	.	.	.
08-Jul-94	2200	2400	16	56	3	.	.	.	.	.	.	.	.	1	.
12-Jul-94	2210	2410	.	46	.	.	.	.	2	.	.	.	.	.	2

Table 5. Catch data from Farwell Canyon rotary auger trap and IPT 1994.

DATE	TRAP IN	TRAP OUT	UNID.										LARV.	COMMENTS	
			CHK0+	CHK1+	SOK0+	SOK1+	COH1+	RBT0+	RBT1+	RBT2+	WTF0+	SALM	LAMP	LOND	
14-Apr-94	.	1700	R	93	15	.	.	.	2	.	.	.	.	.	.
15-Apr-94	.	1100	R	213	38	.	7	3	.	.	.	.	.	.	.
16-Apr-94	.	1120	I	112	1	.	1	.	.	.	.	1	1	.	.
16-Apr-94	.	1120	R	67	29	.	3	.	.	.	.	.	.	.	.
17-Apr-94	.	1100	I	34	1	.	.	.	.	.	.	.	.	.	.
17-Apr-94	.	1100	R	21	14	.	.	.	.	.	.	.	.	.	.
18-Apr-94	.	930	I	32	4	1	2	.	.	.	.	.	.	.	.
18-Apr-94	.	930	R	18	26	.	6	.	1	.	.	.	.	.	.
18-Apr-94	.	1930	I	4	2	.	.	.	.	.	.	.	.	.	.
18-Apr-94	.	1930	R	7	16	.	.	.	.	.	.	.	.	.	.
19-Apr-94	.	950	I	18	.	2	.	.	.	.	.	.	2	.	.
19-Apr-94	.	950	R	32	17	1	2	.	1	1	.	.	.	.	.
20-Apr-94	.	947	I	18	.	2	.	.	.	.	.	.	1	.	.
20-Apr-94	.	947	R	1	10	.	1	.	.	.	.	.	.	.	JAMMED
21-Apr-94	.	930	I	13	.	2	.	.	.	.	.	.	.	.	.
21-Apr-94	.	930	R	12	7	.	.	.	.	.	.	.	.	.	JAMMED
22-Apr-94	.	730	I	27	1	1	.	.	.	.	.	1	.	12	.
22-Apr-94	.	730	R	4	3	.	1	.	.	.	.	.	.	.	JAMMED
22-Apr-94	.	2130	I	17	.	2	.	.	.	.	.	2	.	.	.
22-Apr-94	.	2130	R	25	21	.	.	.	.	.	.	.	.	.	JAMMED
22-Apr-94	2130	2330	I	14	.	.	.	.	.	.	.	.	.	4	.
22-Apr-94	2130	2330	R	7	9	.	51	1	.	.	.	.	.	1	.
23-Apr-94	2100	2300	I	3	2	.	.	.	.	.	.	.	.	1	.
23-Apr-94	2100	2300	R	8	16	.	29	.	.	.	.	.	.	1	.
24-Apr-94	2110	2310	I	7	.	.	.	.	.	.	.	.	.	1	.
24-Apr-94	2110	2310	R	15	5	2	6	.	.	.	.	.	.	.	.
26-Apr-94	2115	2315	I	5	.	.	.	.	.	.	.	.	.	1	.
26-Apr-94	2115	2315	R	10	8	.	4	.	1	.	.	.	.	.	.
29-Apr-94	2100	2300	I	1	1	.	1	.	.	.	.	.	.	.	.
29-Apr-94	2100	2300	R	3	9	.	.	1	.	2	.	.	.	.	.
01-May-94	2100	2300	I	9	.	2	.	.	.	.	.	.	.	.	.
01-May-94	2100	2300	R	16	5	.	5	.	2	.	.	.	1	.	.
03-May-94	2120	2320	I	8	.	.	.	.	.	.	.	.	.	.	.
03-May-94	2120	2320	R	5	8	.	20	.	.	.	.	.	.	.	.
04-May-94	.	1030	I	11	.	.	.	.	.	.	.	.	.	.	.
04-May-94	.	1030	R	24	6	.	26	.	.	.	.	.	.	.	.
07-May-94	2130	2330	I	8	.	.	.	.	.	.	.	2	.	.	.
07-May-94	2130	2330	R	8	4	.	1	.	.	3	.	.	.	.	.
09-May-94	2100	2300	I	46	.	5	.	.	2	.	.	.	.	.	.

Table 5. Catch data from Farwell Canyon rotary auger trap and IPT 1994.

DATE	TRAP	IN	OUT	TRAP	UNID.										LARV	CYP	COMMENTS
					CHK0+	CHK1+SOK0+	SOK1+	COH1+RBT0+	RBT1+	RBT2+	WTF0+	SALM	LAMP	LOND			
09-May-94	2100	2300	R	57	206	.	306	.	.	27	60	.	.	21	.	10	.
11-May-94	2135	2335	I	60	5	4	2	.	.	12	1	.	.	25	.	.	.
11-May-94	2135	2335	R	58	117	.	180	.	.	3	69	.	.	12	.	.	.
12-May-94	2130	2330	I	11	3	.	3	.	.	.	.	.	.	.	.	.	.
12-May-94	2130	2330	R	21	29	1	14	.	.	.	6	.	.	.	.	.	.
13-May-94	2130	2330	I	35	.	.	.	.	.	.	.	.	.	.	.	.	.
13-May-94	2130	2330	R	40	32	.	9	.	.	1	21	.	.	2	.	.	.
15-May-94	2135	2335	I	21	.	.	.	.	.	.	.	.	.	.	.	.	.
15-May-94	2135	2335	R	14	19	4	1	.	.	1	5	.	.	.	.	.	.
17-May-94	2135	2335	I	12	.	5	.	.	.	.	.	.	.	.	.	.	.
17-May-94	2135	2335	R	20	10	8	1	.	.	3	4	.	.	.	.	.	.
19-May-94	2130	2330	I	2	.	1	.	.	.	.	.	.	.	.	.	.	.
19-May-94	2130	2330	R	3	6	5	.	.	.	.	3	.	.	.	.	.	.
21-May-94	2140	2340	I	2	.	2	.	.	.	.	.	.	.	1	.	.	.
21-May-94	2140	2340	R	2	5	2	.	.	.	.	2	.	.	.	.	.	.
23-May-94	2150	2350	I	2	.	6	.	.	.	.	.	.	.	.	.	BRIGHT MOON	.
23-May-94	2150	2350	R	2	.	6	.	.	.	.	.	.	.	.	.	BRIGHT MOON	.
25-May-94	2200	2400	I	5	.	8	.	.	.	.	.	.	.	.	.	FULL MOON	.
25-May-94	2200	2400	R	.	5	10	.	.	.	2	.	.	.	.	.	FULL MOON	.
26-May-94	1015	2400	I	3	1	14	.	.	.	.	.	.	.	.	.	.	.
26-May-94	1015	2400	R	4	9	15	1	.	.	.	2	.	.	.	.	.	.
27-May-94	2200	2400	I	3	1	12	.	.	.	.	.	.	.	2	.	.	.
27-May-94	2200	2400	R	4	4	9	.	.	.	.	1	.	.	.	.	.	.
29-May-94	2200	2400	I	3	.	2	.	.	.	.	.	.	.	.	.	.	.
29-May-94	2200	2400	R	2	4	10	.	.	.	.	1	.	.	.	.	.	.
01-Jun-94	2210	2410	I	1	.	8	.	.	.	.	.	.	.	.	.	.	.
01-Jun-94	2210	2410	R	1	.	9	.	.	.	.	1	.	.	.	.	.	.
03-Jun-94	2205	2405	I	3	.	4	.	.	.	.	.	.	.	.	.	.	.
03-Jun-94	2205	2405	R	2	1	4	.	.	.	4	.	.	.	.	.	.	.
07-Jun-94	2200	2415	I	2	.	.	.	.	3	.	.	.	.	1	.	.	.
07-Jun-94	2200	2415	R	.	2	.	.	.	1	2	.	.	1	.	.	.	.
09-Jun-94	2215	2415	I	2	.	.	.	.	.	.	.	.	8	.	4	.	.
09-Jun-94	2215	2415	R	1	3	.	.	.	1	.	.	.	8	.	1	.	.
10-Jun-94	2200	2400	I	.	.	.	.	.	.	.	.	.	3	.	.	.	.
10-Jun-94	2200	2400	R	4	.	.	.	.	3	2	.	.	5	.	.	.	.
12-Jun-94	2215	2415	I	2	.	.	.	.	.	1	.	.	3	.	1	.	.
12-Jun-94	2215	2415	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19-Jun-94	2215	2415	I	2	1	1	.	.	.	7	.	.	2	.	1	.	.
19-Jun-94	2215	2415	R	4	.	.	.	.	.	.	.	.	5	.	.	.	.

Table 5. Catch data from Farwell Canyon rotary auger trap and IPT 1994.

DATE	TRAP	IN	OUT	TRAP	UNID.								LARV.	CYP.	COMMENTS	
					CHK0+	CHK1+	SOK0+	SOK1+	COH1+	RBT0+	RBT1+	RBT2+				
21-Jun-94	2200	2411	I	1	.	.	.	.	.	.	.	.	.	5	.	.
21-Jun-94	2200	2411	R	1	1	4	.	.	.	.	2	.	.	.	1	.
23-Jun-94	2230	2430	I	.	.	.	.	.	.	.	.	.	.	.	.	FLOODED OUT
23-Jun-94	2230	2430	R	1	2	7	.	.	2	.	.	.	.	3	.	.
25-Jun-94	2225	2425	I	.	1	1	.	.	.	.	.	.	1	.	.	.
25-Jun-94	2225	2425	R	1	4	6	.	.	.	.	.	.	.	.	.	.
28-Jun-94	2220	2420	I	.	.	.	.	.	.	.	.	.	.	.	.	.
28-Jun-94	2220	2420	R	.	.	1	.	.	.	1	1	.	.	.	.	.
09-Jul-94	2200	2400	I	1	.	1	.	.	.	.	.	.	.	.	.	.
11-Jul-94	2200	2400	I	.	.	1	.	.	.	.	.	.	.	.	.	.

Table 6. Length data of chinook juveniles from Chilko River IPT 1994.

DATE	TIME	SPEC.	LENGTHS (mm)									
			35	35	38	38	37	37	37	38	34	40
27-Apr-94	2300	CHK0+	35	35	38	38	37	37	37	38	34	40
06-May-94	2300	CHK1+	32	30	35	37	37	35	35	34	33	32
15-May-94	2315	CHK0+	37	36	41	43	43	37	36	37	40	37

Table 7. Length data of chinook juveniles from upper Chilcotin River IPT 1994.

DATE	TIME	SPEC.	LENGTHS (mm)									
			34	35	36	36	36	36	.	.	.	.
02-May-94	2300	CHK0+	34	35	36	36	36	36	.	.	.	.
02-May-94	2300	CHK1+	101	.	.	.	.	.	.	.	.	.
10-May-94	2315	CHK0+	37	36	32	34	37	31	34	33	34	35
18-May-94	2330	CHK0+	35	36	37	.	.	.	.	.	.	.
18-May-94	2330	CHK1+	90	.	.	.	.	.	.	.	.	.
27-May-94	1000	CHK0+	41	32	36	43	44	38	36	43	38	.
04-Jun-94	2410	CHK0+	35	42	33	.	.	.	.	.	.	.
08-Jun-94	2400	CHK0+	38	47	45	45	.	.	.	.	.	.
20-Jun-94	2425	CHK0+	32	49	49	64	.	.	.	.	.	.
27-Jun-94	2425	CHK0+	60	52	50	52	55	.	.	.	.	.
29-Jun-94	2415	CHK0+	67	60	.	.	.	.	.	.	.	.
08-Jul-94	2400	CHK0+	56	54	42	.	.	.	.	.	.	.

Table 8. Length data of chinook juveniles from Farwell Canyon rotary auger trap and IPT 1994.

Table 9. Weight data of chinook juveniles from upper Chilcotin River IPT 1994.

DATE	TIME	SPEC.	WEIGHT (g)								
02-May-94	2300	CHK0+	0.44	0.18	0.23	0.43	0.54	0.31	.	.	.
02-May-94	2300	CHK1+	12.39	.	.	.	.	.	.	.	.
10-May-94	2315	CHK0+	0.44	0.33	0.27	0.27	0.38	0.24	0.30	0.27	0.32
18-May-94	2330	CHK0+	0.35	0.40	0.28	.	.	.	.	.	.
18-May-94	2330	CHK1+	9.59	.	.	.	.	.	.	.	.
27-May-94	1000	CHK0+	0.76	0.27	0.37	0.78	1.02	0.56	0.42	0.84	0.65
04-Jun-94	2410	CHK0+	0.69	0.82	0.33	.	.	.	.	.	.
08-Jun-94	2400	CHK0+	0.75	1.20	0.92	1.20	.	.	.	.	.
20-Jun-94	2425	CHK0+	0.29	1.19	1.35	2.95	.	.	.	.	.
27-Jun-94	2425	CHK0+	2.76	1.77	1.32	2.69	2.03	.	.	.	.
29-Jun-94	2415	CHK0+	3.56	2.50	.	.	.	.	.	.	.
08-Jul-94	2400	CHK0+	2.30	2.00	0.94	.	.	.	.	.	.

Table 10. Weight data of chinook juveniles from Farwell Canyon rotary auger trap and IPT 1994.

TABLE 11. Chilcotin watershed beach seine sites, codes, and distances upstream from the confluence with the Fraser River 1994.

SITE	CODE	DISTANCE FROM FRASER RIVER (km)
Area 1: Lower Chilcotin		
Above Farwell Canyon	1AF	19.0
Wineglass Ranch	1WR	28.2
Area 2: Middle Chilcotin		
Hanceville Bridge	2HB	66.4
Christie Road Bridge	2CR	92.5
Area 3: Chilcotin/Chilko Confluence		
Bull Canyon	3BC	103.5
Young Rd./Hwy 20	3LR	106.2
Young Rd./X from Sprinklers	3AS	107.8
Area 4: Lower Chilko		
3 km u/s of Chilcotin Confluence	4UP	110.9
Taseko Confluence	4TC	129.3
Area 5: Upper Chilko		
Lingfield Creek	5LC	187.3
Henry's Crossing	5HC	182.7
5 km d/s of Henry's Xing	5DH	177.5
Area 6: Upper Chilcotin		
Chilko-Newton Rd./Young Rd.	6CN	114.4
5 km u/s of Redstone Bridge	6UR	136.7
7 km u/s of Redstone Bridge	6CA	138.9
Area 7: Middle Chilko		
8.5 km down River Road	7MC	172.2

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV												LARV.				COMMENTS
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID	BT	LOND	SQU	SUC	AMM	
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF												
23-Apr-94	. 7.0	2 HB	1 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	2 3	1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	3 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	4 .	4	.	2	.	.	.	.	2	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	5 3	13	.	3	.	.	.	11	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	6 3	1	.	64	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	7 11	3	.	7	.	.	.	2	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	. 7.0	2 HB	8 1	1	.	2	.	.	1	1	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	1612	2 CR	1 1	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	1612	2 CR	2 20	3	.	6	.	.	.	1	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	1612	2 CR	3 2	.	.	.	.	.	.	7	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	1612	2 CR	4 65	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	Non-salmonids not recorded
23-Apr-94	1612	2 CR	5 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 7.0	3 AS	1 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 7.0	3 AS	2 57	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 7.0	3 AS	3 26	1	.	.	.	.	1	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 7.0	3 AS	4 42	.	.	.	.	.	8	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 4.0	5 HC	1 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 4.0	5 HC	2 1	1	.	9	.	.	2	.	.	.	.	.	.	.	.	.	Non-salmonids not recorded
25-Apr-94	. 4.0	5 HC	3 1	.	.	6	.	.	.	.	.	.	.	.	.	.	.	.	.
29-Apr-94	1520 10.0	1 WR	1 2	34	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
29-Apr-94	1520 10.0	1 WR	2 2	72	.	.	2	.	3	2	.	.	1	.	.	.	1	.	
29-Apr-94	1520 10.0	1 WR	3 .	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.
29-Apr-94	1800 .	1 AF	1 .	8	.	.	.	2	.	.	1	.	.	.	.	.	.	.
29-Apr-94	1800 .	1 AF	2 .	11	.	.	.	.	.	1	.	.	.	.	.	.	.	.
29-Apr-94	1800 .	1 AF	3 .	5	.	.	1	.	.	.	.	.	.	.	.	.	.	.
29-Apr-94	1800 .	1 AF	4 .	8	.	.	2	.	.	.	.	.	.	.	.	.	.	.
30-Apr-94	1430 .	3 BC	1 77	6	1	.	.	.	.	.	.	.	1	.	.	.	.	.
30-Apr-94	1430 .	3 BC	2 174	.	.	.	.	.	.	.	.	.	10	.	.	.	.	.
30-Apr-94	1430 .	3 BC	3 12	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.
30-Apr-94	1600 .	3 LR	1 1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30-Apr-94	1600 .	3 LR	2 31	1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	
30-Apr-94	1600 .	3 LR	3 30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
01-May-94	1425 .	2 HB	1 6	14	.	7	.	.	.	2	.	.	.	.	.	.	.	.
01-May-94	1425 .	2 HB	2 13	6	.	.	.	.	1	.	.	1	.	.	.	.	5	.	
01-May-94	1425 .	2 HB	3 5	8	.	2	.	.	2	.	.	.	.	.	.	.	.	.
01-May-94	1425 .	2 HB	4 1	.	1	1	.	.	2	.	.	.	.	.	.	.	.	.
01-May-94	1547 9.0	2 CR	1 8	.	.	.	.	.	1	.	.	2	.	.	.	.	.	.
01-May-94	1547 9.0	2 CR	2 4	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.						LARV.						COMMENTS
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID		
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LOND	SQU	SUC	AMM			
01-May-94	1547	9.0	2	CR	3	4	.	.	.	.	.	.	.	.	.
01-May-94	1547	9.0	2	CR	4	42	1	.	.	.	.	.	.	.	.
04-May-94	1340	.	5	LC	1	15	.	2	.	.	.	.	.	.	.
04-May-94	1340	.	5	LC	2	171	.	48	.	.	.	.	.	.	.
04-May-94	1340	.	5	LC	3	36	.	59	.	.	.	.	.	.	.
04-May-94	1440	.	5	HC	1	258	2	30	47	.	.	.	.	.	.
04-May-94	1440	.	5	HC	2	200	.	48	1	.	.	.	.	.	.
04-May-94	1440	.	5	HC	3	73	.	28	1	.	1	.	.	.	.
04-May-94	1700	8.0	5	DH	1	25	.	.	.	.	.	.	.	.	.
04-May-94	1700	8.0	5	DH	2	2	.	.	.	1	.	.	.	.	.
04-May-94	1700	8.0	5	DH	3	5	.	.	.	.	.	.	.	.	.
08-May-94	1710	10.0	4	TC	1	15	.	2	.	.	2	.	.	.	.
08-May-94	1710	10.0	4	TC	2	9	.	2	.	.	1	.	.	.	.
08-May-94	1710	10.0	4	TC	3	2	.	.	.	.	.	.	.	.	.
08-May-94	1710	10.0	4	TC	4	.	.	.	.	.	1	.	.	.	.
09-May-94	1500	10.0	4	UP	1	1	.	.	.	1	1	.	.	1	.
09-May-94	1500	10.0	4	UP	2	.	.	.	.	1	1	2	.	.	.
09-May-94	1500	10.0	4	UP	3	14	9	.	2	.	14	.	.	120	.
11-May-94	.	11.0	6	UR*	1	102	1	.	.	2	.	.	10	.	*3.5 km u/s of Redstone Br.
11-May-94	.	11.0	6	UR*	2	137	2	.	.	.	.	.	.	8	*3.5 km u/s of Redstone Br.
11-May-94	.	11.0	6	UR*	3	36	.	.	.	.	.	.	3	.	*3.5 km u/s of Redstone Br.
11-May-94	.	.	6	UR	1	3	.	.	.	.	.	.	2	.	.
11-May-94	.	.	6	UR	2	10	.	.	.	.	.	.	200	.	.
11-May-94	1500	.	6	CA	1	26	.	.	.	.	.	30	35	50	.
11-May-94	.	.	6	CN	1	23	1	.	.	.	.	.	.	.	.
11-May-94	.	.	6	CN	1	.	3	.	.	.	.	.	.	.	.
11-May-94	.	11.0	3	AS	1	115	1	.	.	.	.	.	.	.	.
11-May-94	.	11.0	3	AS	2	68	.	.	.	.	.	.	1	.	.
11-May-94	.	11.0	3	AS	3	.	.	6	2	.	.	.	.	.	.
13-May-94	1230	.	1	WR	1	6	8	.	.	.	1	.	.	.	.
13-May-94	1230	.	1	WR	2	10	8	.	.	.	3	.	.	.	.
13-May-94	1230	.	1	WR	3	5	10	.	.	.	.	.	.	.	.
13-May-94	1430	.	2	HB	1	83	6	1	.	1	5	3	.	1	.
13-May-94	1430	.	2	HB	2	12	1	.	.	1	.	1	.	.	.
13-May-94	1430	.	2	HB	3	32	5	.	.	1	.	1	.	.	.
13-May-94	1630	.	2	CR	1	27	9	.	.	1	2	.	.	50	.
13-May-94	1630	.	2	CR	2	14	1	.	.	.	1	.	.	.	.
13-May-94	1630	.	2	CR	3	30	15	.	.	.	2	3	.	.	.
13-May-94	1930	10.0	1	AF	1	2	5	.	.	.	1	.	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LARV.			LARV.			COMMENTS						
									CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LEOD	RSS	CYP.	LAMP	UNID		
TIME	AREA	SET#							1	2	2										
13-May-94	1930	10.0	1	AF	2	7	5	.	.	.	.	1	2	2	.	.	.	.	.	.
13-May-94	1930	10.0	1	AF	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14-May-94	1442	.	3	AS	1	25	.	.	.	.	.	.	.	.	.	.	80	.	.	.	
14-May-94	1442	.	3	AS	2	299	.	.	.	.	.	.	.	.	.	2	.	100	.	.	.
14-May-94	1442	.	3	AS	3	183	.	.	.	.	.	1	4	.	.	3	.	200	.	.	.
17-May-94	1130	6.0	5	LC	1	.	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1130	6.0	5	LC	2	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1130	6.0	5	LC	3	7	.	722	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1210	6.0	5	HC	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1210	6.0	5	HC	2	17	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1210	6.0	5	HC	3	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1315	7.0	5	DH	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1315	7.0	5	DH	2	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1315	7.0	5	DH	3	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1400	.	7	MC	1	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1400	.	7	MC	2	131	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17-May-94	1400	.	7	MC	3	1015	1	3	1	.	.	.	.	.	1	.	.	.	.	.	.
18-May-94	1330	.	3	LR	1	23	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18-May-94	1330	.	3	LR	2	5	.	.	.	.	.	.	.	.	.	15	.	.	.	.	.
18-May-94	1330	.	3	LR	3	3	.	1	.	.	.	.	1	.	.	.	.	.	.	.	.
18-May-94	1430	.	3	BC	1	12	.	.	.	.	.	.	1	.	.	.	25	.	.	.	.
18-May-94	1430	.	3	BC	2	2	5	.	.	.	.	2	.	.	.	50	.	.	.	.	.
18-May-94	1430	.	3	BC	3	5	1	.	.	.	3	.	.	.	.	.	.	.	.	.	.
22-May-94	1500	8.5	4	TC	1	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22-May-94	1500	8.5	4	TC	2	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22-May-94	1500	8.5	4	TC	3	12	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
22-May-94	1600	10.0	4	UP	1	.	.	.	.	.	.	7	.	.	.	.	.	.	.	.	.
22-May-94	1600	10.0	4	UP	2	.	.	.	.	.	2	.	1	.	.	3	.	.	.	.	.
22-May-94	1600	10.0	4	UP	3	4	2	.	.	.	.	.	.	.	.	100	.	.	.	.	.
25-May-94	.15.5	6	CN	1	5	.	2	.	.	.	.	.	.	1	.	.	.	.	.	.	.
25-May-94	.15.5	6	CN	2	1	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25-May-94	.15.5	6	CN	3	21	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.
25-May-94	1500	14.5	6	UR	1	115	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.
25-May-94	1500	14.5	6	UR	2	58	.	.	.	.	.	21	.	.	.	1	.	2	.	.	.
25-May-94	1500	14.5	6	UR	3	84	.	.	.	.	.	2	.	.	2	.	2	.	.	.	.
25-May-94	1600	.	6	CA	1	17	.	.	.	.	.	.	.	9	.	15	.	2	.	1	.
26-May-94	1100	11.0	1	AF	1	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.
26-May-94	1100	11.0	1	AF	2	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.
26-May-94	1100	11.0	1	AF	3	2	.	.	.	.	2	.	1	.	.	.	.	.	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.						LARV.						COMMENTS
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID		
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LOND	SQU	SUC	AMM			
26-May-94	1220	11.0	1	WR	1	145	7	.	.	.	1	3	.	.	.
26-May-94	1220	11.0	1	WR	2	7	.	.	.	.	.	.	.	.	.
26-May-94	1220	11.0	1	WR	3	22	8	.	.	.	.	.	.	.	.
26-May-94	1435	11.0	2	HB	1	6	.	.	.	.	.	37	.	.	.
26-May-94	1435	11.0	2	HB	2	.	.	.	.	1	2	3	.	.	.
26-May-94	1435	11.0	2	HB	3	5	2	.	.	1	.	1	.	.	.
26-May-94	1600	10.5	2	CR	1	.	.	.	.	.	.	22	.	.	.
26-May-94	1600	10.5	2	CR	2	.	.	.	.	.	.	100	.	.	.
26-May-94	1600	10.5	2	CR	3	.	.	.	.	3	.	1	300	.	1
31-May-94	1225	8.5	5	LC	1	12	.	16	.	.	.	.	.	.	.
31-May-94	1225	8.5	5	LC	2	10	.	3	.	.	.	.	.	.	.
31-May-94	1225	8.5	5	LC	3	32	.	400	.	.	.	.	.	.	.
31-May-94	1340	.	5	HC	1	6	.	.	.	.	.	.	.	.	.
31-May-94	1340	.	5	HC	2	5	.	1	.	.	.	.	.	.	.
31-May-94	1340	.	5	HC	3	.	.	.	.	.	.	.	.	.	.
31-May-94	.	9.5	5	DH	1	1	.	.	.	.	.	.	.	.	.
31-May-94	.	.	5	DH	2	73	.	.	1	.	.	.	.	.	.
31-May-94	.	.	5	DH	3	4	.	.	.	.	.	.	.	.	.
31-May-94	.	.	7	MC	1	15	.	.	1	.	.	.	.	.	.
31-May-94	.	.	7	MC	2	18	.	.	.	.	.	.	.	.	.
31-May-94	.	.	7	MC	3	206	.	1	2	.	.	.	.	.	.
02-Jun-94	.	.	3	AS	1	46	.	1	.	1	.	1	.	.	.
02-Jun-94	.	.	3	AS	2	13	.	.	.	1	.	6	.	.	.
02-Jun-94	.	.	3	AS	3	13	1	.	.	1	.	3	.	.	.
02-Jun-94	1450	10.5	3	LR	1	20	.	5	.	.	.	2	.	.	.
02-Jun-94	1450	10.5	3	LR	2	2	.	.	.	.	29	.	.	.	.
02-Jun-94	.	10.5	3	BC	1	1	.	.	.	.	150	.	.	.	.
02-Jun-94	.	10.5	3	BC	2	2	.	.	.	.	75	.	.	.	.
02-Jun-94	.	10.5	3	BC	3	8	.	.	.	.	40	.	.	.	.
09-Jun-94	.	11.0	4	UP	1	9	.	.	.	.	300	.	.	.	.
09-Jun-94	.	11.0	4	UP	2	2	.	.	.	.	51	.	.	.	.
10-Jun-94	1450	.	2	CR	1	1	.	.	.	1	.	.	.	.	.
10-Jun-94	1450	.	2	CR	2	2	.	.	.	.	.	.	.	.	.
10-Jun-94	1450	.	2	CR	3	10	.	.	1	2	.	.	.	.	.
10-Jun-94	1550	.	2	HB	1	3	.	.	1	2	51	.	.	.	* 1 steelhead kelt ~75 cm.
10-Jun-94	1550	.	2	HB	2	19	.	.	.	.	50	.	.	.	.
10-Jun-94	1550	.	2	HB	3	10	.	.	.	.	30	.	.	.	.
10-Jun-94	1700	.	1	WR	1	45	.	.	.	.	.	.	.	.	.
10-Jun-94	1920	.	1	AF	1	5	.	.	2	.	.	.	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.				LARV.				COMMENTS						
			TIME	AREA	SET#	CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID	
10-Jun-94	1920	.	1	AF	2	.	.	.	.	.	1	.	.	.	.	.	.
10-Jun-94	1920	.	1	AF	3	1	.	.	.	.	.	.	.	.	.	.	.
12-Jun-94	1600	10.5	3	BC	1	13	.	.	.	.	.	10	.	.	.	.	.
12-Jun-94	1600	10.5	3	BC	2	4	.	.	.	.	.	31	.	.	.	.	.
12-Jun-94	1600	10.5	3	BC	3	1	.	.	.	.	.	1	.	.	.	.	.
12-Jun-94	1640	.	3	AS	1	.	.	.	.	.	.	.	.	.	.	.	.
12-Jun-94	1640	.	3	AS	2	70	.	.	.	.	2	102	.	.	.	1	.
12-Jun-94	1640	.	3	AS	3	13	.	.	.	.	.	.	.	1	.	.	.
12-Jun-94	1730	14.5	6	UR	1	101	.	.	.	.	5	.	.	1	2	1	.
12-Jun-94	1730	14.5	6	UR	2	87	.	.	.	.	4	.	.	6	.	.	.
13-Jun-94	. 10.0	5 LC	1	71	.	.	.	.	.	.	12	.	.	.	.	.	.
13-Jun-94	. 10.0	5 LC	2	33	.	.	.	.	.	.	10	.	.	.	.	.	.
13-Jun-94	. 10.0	5 LC	3	6	.	.	.	.	.	.	15	.	.	.	.	.	.
13-Jun-94	1620	.	5	HC	1	25	.	.	.	.	.	.	.	.	.	.	.
13-Jun-94	1620	.	5	HC	2	5	.	.	.	.	.	.	.	.	.	.	.
13-Jun-94	. 10.0	5 DH	1	42	.	.	.	.	.	.	.	.	.	1	.	.	.
13-Jun-94	. 10.0	5 DH	2	40	.	.	.	.	1	.	.	.	.	.	.	.	.
13-Jun-94	. 10.0	5 DH	3	27	.	.	.	.	1	.	1	.	.	.	.	.	.
13-Jun-94	1745	10.5	7 MC	1	31	.	.	.	10	.	8	.	.	.	.	.	.
13-Jun-94	1745	10.5	7 MC	2	13	.	.	.	3	1	1	.	.	1	.	.	.
13-Jun-94	1745	10.5	7 MC	3	.	1	.	.	.	.	.	.	.	.	.	.	.
20-Jun-94	1620	.	6	UR	1	29	.	.	.	.	1	.	.	12	.	.	.
20-Jun-94	1620	.	6	UR	2	41	.	.	.	.	3	.	1	3	7	.	.
20-Jun-94	1620	.	6	UR	3	18	.	.	.	.	9	.	3	1	.	.	.
20-Jun-94	. 18.0	6 CN	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20-Jun-94	. 18.0	6 CN	2	25	.	.	.	.	.	.	.	.	.	.	.	.	.
20-Jun-94	. 18.0	6 CN	3	23	.	.	.	.	.	3	.	.	29	.	.	.	.
20-Jun-94	1740	16.0	3 AS	1	.	.	.	.	.	.	.	.	.	1	.	.	.
20-Jun-94	1740	16.0	3 AS	2	8	.	.	.	.	.	.	.	1	.	.	.	.
20-Jun-94	1740	16.0	3 AS	3	22	.	.	.	.	.	23	.	.	1	.	.	.
21-Jun-94	1113	.	3 BC	1	2	.	.	.	.	.	8	.	.	.	.	.	.
21-Jun-94	1113	.	3 BC	2	6	.	.	.	.	1	97	.	.	.	.	.	.
21-Jun-94	1113	.	3 BC	3	3	.	.	.	.	.	95	.	.	.	.	.	.
21-Jun-94	. 10.0	4 TC	1	1	.	.	.	.	.	2	.	.	.	.	.	.	.
21-Jun-94	. 10.0	4 TC	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21-Jun-94	. 10.0	4 TC	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21-Jun-94	. 11.0	4 UP	1	6	.	.	.	.	.	.	13	.	.	.	.	.	.
21-Jun-94	. 11.0	4 UP	2	3	.	.	.	.	.	1	29	.	.	.	.	.	.
21-Jun-94	. 11.0	4 UP	3	10	.	.	.	.	.	3	9	.	.	.	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.						LARV.						COMMENTS
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID		
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LOND	SQU	SUC	AMM			
21-Jun-94	. 14.0	2 HB	1 4	.	.	.	.	.	17	.	.	.	.	.	.
21-Jun-94	. 14.0	2 HB	2 13	.	.	.	.	4	76	1	.	.	.	.	.
21-Jun-94	. 14.0	2 HB	3 15	.	.	.	.	1	.	17	.	.	1	.	.
21-Jun-94	. 13.5	2 CR	1 23	.	.	.	.	.	3	2	.	.	.	.	.
21-Jun-94	. 13.5	2 CR	2 16	.	.	.	.	.	5	.	1	.	1	.	.
21-Jun-94	. 13.5	2 CR	3 22	.	.	.	.	.	14	.	.	1	.	.	.
23-Jun-94	1250 13.5	5 LC	1 2	.	.	.	.	.	2	.	.	.	.	.	.
23-Jun-94	1250 13.5	5 LC	2 8	.	.	.	.	.	.	.	.	.	.	.	.
23-Jun-94	1250 13.5	5 LC	3 17	.	4	.	.	.	5	.	.	.	.	.	.
23-Jun-94	. 13.0	5 DH	1 78	.	2	.	.	.	.	.	.	.	.	.	.
23-Jun-94	. 13.0	5 DH	2 5	.	.	.	1	.	.	.	.	.	.	.	.
23-Jun-94	1455 13.0	7 MC	1 79	.	.	.	2	.	.	.	2	.	.	.	.
23-Jun-94	1455 13.0	7 MC	2 4	.	.	.	.	.	.	.	.	.	.	.	.
25-Jun-94	1200 14.5	1 WR	1 71	.	.	.	.	2	.	6	.	1	.	.	* one steelhead?
25-Jun-94	1200 14.5	1 WR	2 4	.	.	.	.	1	.	4	.	.	.	.	.
08-Jul-94	. 14.5	2 HB	1 11	.	.	.	.	1	.	8	.	.	.	.	.
08-Jul-94	. 14.5	2 HB	2 8	.	.	.	.	.	2	.	.	.	.	.	.
08-Jul-94	. 14.5	2 HB	3 1	.	.	.	.	.	3	.	.	.	.	.	.
08-Jul-94	. 13.5	2 CR	1 77	.	.	.	2	.	20	.	.	.	.	.	.
08-Jul-94	. 13.5	2 CR	2 5	.	.	.	.	.	10	.	.	.	.	.	.
08-Jul-94	. 13.5	2 CR	3 1	.	.	.	.	.	1	.	.	1	.	.	.
09-Jul-94	. .	5 LC	1	.	.	.	.	.	.	.	.	.	.	.	high/clr H2O no bank/fish
09-Jul-94	. .	5 LC	2	.	.	.	.	.	.	.	.	.	.	.	high/clr H2O no bank/fish
09-Jul-94	. .	5 LC	3	.	.	.	.	.	.	.	.	.	.	.	high/clr/H2O no bank/fish
09-Jul-94	. 13.0	5 DH	1 48	.	1	.	.	.	2	.	.	.	.	.	.
09-Jul-94	. 13.0	5 DH	2	.	.	.	.	.	.	.	.	.	.	.	no fish
09-Jul-94	. 13.0	5 DH	3	.	.	.	.	.	.	.	.	.	.	.	no fish
09-Jul-94	. 13.0	7 MC	1 28	.	.	8	.	.	.	.	.	.	.	.	.
09-Jul-94	. 13.0	7 MC	2 2	.	.	.	.	.	.	.	.	.	.	.	.
09-Jul-94	. 13.0	7 MC	3 4	.	.	.	.	.	.	.	.	.	.	.	.
11-Jul-94	. 12.0	4 UP	1 5	.	.	.	.	3	.	3	.	.	.	.	.
11-Jul-94	. 12.0	4 UP	2 1	.	1	.	.	.	5	.	.	.	.	.	.
11-Jul-94	. 12.0	4 UP	3 5	.	.	.	.	1	.	7	.	.	.	.	.
11-Jun-94	. 16.0	6 CN	1	.	.	.	.	.	1	.	.	1	.	.	.
11-Jul-94	. 16.0	6 CN	2 8	.	.	.	.	.	4	.	.	.	.	.	.
11-Jul-94	. 16.0	6 CN	3 2	.	.	.	.	.	.	.	1	.	.	.	.
11-Jul-94	. 16.5	6 UR	1 1	.	.	.	.	.	.	2	.	2	.	.	.
11-Jul-94	. 16.5	6 UR	2 2	.	.	.	.	.	1	.	7	.	10	.	.
11-Jul-94	. 16.5	6 UR	3 16	.	.	.	.	.	1	.	5	.	1	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.				LARV.				COMMENTS		
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LOND	SQU	SUC	AMM	
11-Jul-94	. 11.0	3 AS	1	.	.	.	.	.	3	.	.	.	.
11-Jul-94	. 11.0	3 AS	2	.	.	.	.	.	.	.	.	.	one adult rainbow trout
11-Jul-94	. 11.0	3 AS	3	.	.	.	.	.	2	.	.	.	.
12-Jul-94	945 13.0	3 BC	1	.	.	.	1	.	.	.	.	.	.
12-Jul-94	945 13.0	3 BC	2	.	2	.	.	.	2	.	.	.	.
12-Jul-94	945 13.0	3 BC	3	15	.	.	.	.	63	.	.	.	.
12-Jul-94	1135	1 WR	1	58	.	.	.	4	1	2	.	.	1
12-Jul-94	1135	1 WR	2	14	.	.	.	3	.	2	.	.	.
15-Sep-94	1100	2 HB	1	5	.	.	.	1	.	2	.	.	2
15-Sep-94	1100	2 HB	2	4	.	.	.	1	.	3	.	.	1
15-Sep-94	1100	2 HB	3	5	.	.	.	2	.	2	.	.	.
15-Sep-94	1200	2 CR	1	13	.	.	.	.	2	.	.	.	.
15-Sep-94	1200	2 CR	2	29	.	.	.	4	.	4	.	.	.
15-Sep-94	1200	2 CR	3	77	.	.	.	6	.	12	.	1	.
15-Sep-94	1400	3 AS	1	1	.	.	.	1	.	.	.	.	.
15-Sep-94	1400	3 AS	2	.	1	.	.	.	.	.	.	.	.
15-Sep-94	1400	3 AS	3	.	.	.	.	.	.	.	1	.	.
15-Sep-94	1440	3 LR	1	.	.	.	.	1	.	.	1	.	2
15-Sep-94	1440	3 LR	2	24	.	.	.	1	7	.	12	.	.
15-Sep-94	1440	3 LR	3	4	.	.	.	1	.	7	.	.	.
15-Sep-94	1520	3 BC	1	4	.	11	.	1	.	23	.	1	1
15-Sep-94	1520	3 BC	2	1	.	1	.	.	12	.	.	.	1
15-Sep-94	1520	3 BC	3	13	.	.	.	.	69	.	.	.	.
15-Sep-94	1605	6 CN	1	.	.	.	.	.	.	.	1	.	.
15-Sep-94	1605	6 CN	2	3	.	.	.	.	.	.	9	.	.
15-Sep-94	1605	6 CN	3	.	.	.	.	.	.	.	4	2	.
15-Sep-94	1650	6 UR	1	.	.	.	.	.	.	.	1	5	.
15-Sep-94	1650	6 UR	2	.	.	.	.	.	20	24	.	.	.
16-Sep-94	1000	5 LC	1	.	.	.	71	.	.	.	.	.	.
16-Sep-94	1000	5 LC	2	.	.	.	23	.	1	.	.	.	.
16-Sep-94	1000	5 LC	3	.	.	.	5	.	.	.	1	.	.
16-Sep-94	1110	5 HC	1	.	.	.	.	.	.	.	.	.	.
16-Sep-94	1110	5 HC	2	.	.	.	.	.	.	.	.	.	.
16-Sep-94	1135	5 DH	1	6	.	.	3	.	3	.	.	.	.
16-Sep-94	1135	5 DH	2	.	.	1	.	.	.	.	.	.	.
16-Sep-94	1250	7 MC	1	.	.	.	1	.	.	.	.	.	.
16-Sep-94	1250	7 MC	2	19	.	.	4	.	1	.	.	.	.
16-Sep-94	1500	4 TC	1	3	.	.	.	.	.	.	.	.	.
16-Sep-94	1500	4 TC	2	.	.	.	.	.	.	1	.	.	.

Table 12. Catch data from Chilcotin watershed beach seining 1994.

DATE	TEMP	SITE	LARV.						LARV.						COMMENTS
			CHK0+	SOK0+	COH0+	RBT0+	RBT2+	WTF	LEOD	RSS	CYP.	LAMP	UNID		
TIME	AREA	SET#	CHK1+	SOK1+	COH1+	RBT1+	WTF	BT	LOND	SQU	SUC	AMM			
16-Sep-94	1500	.	4	TC	3	1	.	.	.	1	.	.	.	.	.
16-Sep-94	1550	.	4	UP	1	2	.	.	.	.	.	.	.	.	.
16-Sep-94	1550	.	4	UP	2	9	.	.	.	.	.	2	.	.	.
16-Sep-94	1550	.	4	UP	3	37	.	.	.	.	5	.	.	.	.
17-Sep-94	940	.	1	WR	1	6	.	.	.	.	.	.	.	.	.
17-Sep-94	940	.	1	WR	2	68	.	.	.	.	1	.	.	.	.
12-Oct-94	930	7	4	UP	1	.	.	.	.	.	.	.	.	.	.
12-Oct-94	930	7	4	UP	2	1	.	.	.	2	.	.	.	.	.
12-Oct-94	930	7	4	UP	3	1	.	.	.	40	.	.	.	.	.
12-Oct-94	930	7	4	UP	4	1	.	.	.	30	.	.	.	.	.
12-Oct-94	1045	7	4	TC	1	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1045	7	4	TC	2	.	.	.	1	1	.	.	.	.	.
12-Oct-94	1300	.	7	MC	1	2	.	.	2	1	.	.	.	.	.
12-Oct-94	1300	.	7	MC	2	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1930	.	7	MC	1	46	.	2	.	17	3	.	.	.	night sampling
12-Oct-94	1930	.	7	MC	2	.	.	.	1	5	1	.	.	.	night sampling
12-Oct-94	1930	.	7	MC	3	3	.	.	3	.	.	.	.	.	night sampling
12-Oct-94	2100	.	5	HC	1	2	.	.	5	.	.	.	.	.	night sampling
12-Oct-94	2100	.	5	HC	2	4	.	.	3	.	.	.	.	.	night sampling
12-Oct-94	2100	.	5	HC	3	5	.	.	6	2	.	.	1	.	night sampling
12-Oct-94	2100	.	5	HC	4	1	.	.	3	1	.	.	.	.	night sampling
12-Oct-94	2130	.	5	LC	1	.	.	.	4	.	1	.	.	.	night sampling
12-Oct-94	2130	.	5	LC	2	.	.	.	1	.	1	.	.	.	night sampling
12-Oct-94	2130	.	5	LC	3	.	.	.	9	.	1	.	.	.	night sampling
13-Oct-94	1830	7	3	LR	1	4	.	.	.	8	.	.	.	.	night sampling
13-Oct-94	1830	7	3	LR	2	7	.	.	.	2	12	.	.	.	night sampling
13-Oct-94	1830	7	3	LR	3	10	.	.	4	.	12	1	.	1	night sampling
13-Oct-94	2100	7	2	CR	1	.	.	.	10	.	42	2	.	.	night sampling
13-Oct-94	2100	7	2	CR	2	8	.	.	.	6	46	.	.	.	night sampling
13-Oct-94	2100	7	2	CR	3	24	.	.	.	6	45	1	.	2	night sampling
13-Oct-94	2145	.	2	HB	1	.	.	.	14	.	10	1	.	.	night sampling
13-Oct-94	2145	.	2	HB	2	11	.	.	10	.	3	.	.	.	night sampling

Table 13. Length data of salmonid juveniles from Chilcotin watershed beach seining 1994.

DATE	TIME	SITE	SPECIES	LENGTH (mm)											
				37	38	41	40	39	43	43	44	40	35	.	.
25-May-94	.	6CN	CHK0+	37	38	41	40	39	43	43	44	40	35	.	.
25-May-94	.	6CN	CHK1+	96	91	110	104	.	.	.	.	.	.	.	.
25-May-94	1500	6UR	CHK0+	34	41	33	43	38	44	37	47	47	37	.	.
26-May-94	1100	1AF	CHK0+	50	.	.	.	.	.	.	.	.	.	.	.
26-May-94	1220	1WR	CHK0+	52	36	43	45	48	41	48	40	46	38	.	.
26-May-94	1220	1WR	CHK1+	106	92	86	94	91	93	96	101	88	87	.	.
26-May-94	1435	2HB	CHK0+	38	39	41	44	39	40	49	39	44	47	.	.
31-May-94	1225	5LC	CHK0+	35	34	39	40	36	34	34	36	35	33	.	.
31-May-94	1340	5HC	CHK0+	43	45	41	45	51	44	48	40	44	42	.	.
31-May-94	.	5DH	CHK0+	34	37	43	44	41	37	36	42	45	41	.	.
31-May-94	.	7MC	CHK0+	52	46	41	48	51	48	38	42	45	40	.	.
02-Jun-94	.	3AS	CHK0+	38	37	46	41	56	41	45	36	45	42	.	.
02-Jun-94	1450	3LR	CHK0+	53	39	45	37	38	35	38	42	40	35	.	.
02-Jun-94	.	3BC	CHK0+	53	43	52	46	45	33	40	47	43	40	.	.
09-Jun-94	.	4UP	CHK0+	52	41	42	48	44	41	46	47	36	43	44	.
10-Jun-94	1450	2CR	CHK0+	48	42	44	44	44	43	48	61	48	44	40	43
10-Jun-94	1550	2HB	CHK0+	63	49	41	45	45	49	64	45	46	42	56	.
10-Jun-94	1700	1WR	CHK0+	45	46	62	40	50	45	43	43	57	54	33	45
10-Jun-94	1700	1WR	CHK0+	65	.	.	.	.	.	.	.	.	.	46	.
10-Jun-94	1920	1AF	CHK0+	58	68	66	57	60	58	.	.	.	.	.	.
12-Jun-94	1600	3BC	CHK0+	53	47	42	44	41	47	46	42	41	44	41	49
12-Jun-94	1600	3BC	CHK0+	49	.	.	.	.	.	.	.	.	.	37	.
12-Jun-94	1640	3AS	CHK0+	42	50	48	51	55	55	42	60	50	69	47	38
12-Jun-94	1640	3AS	CHK0+	46	44	44	44	44	40	42	44	50	.	.	.
12-Jun-94	1730	6UR	CHK0+	54	58	50	47	42	45	44	42	53	42	43	54
12-Jun-94	1730	6UR	CHK0+	47	59	63	48	55	43	48	47	.	.	.	43
13-Jun-94	.	5LC	CHK0+	42	40	42	39	42	41	44	47	45	40	43	42
13-Jun-94	.	5LC	CHK0+	42	40	46	46	.	.	.	.	.	.	.	40
13-Jun-94	1620	5HC	CHK0+	38	44	42	43	38	35	44	40	43	42	43	.
13-Jun-94	1745	7MC	CHK0+	47	44	38	47	41	42	53	41	51	36	39	49
20-Jun-94	1620	6UR	CHK0+	47	57	49	55	53	51	50	41	48	58	.	.
20-Jun-94	.	6CN	CHK0+	47	62	47	54	60	43	41	55	41	44	.	.
20-Jun-94	.	3AS	CHK0+	53	46	47	52	44	42	47	43	67	68	.	.
21-Jun-94	1113	3BC	CHK0+	45	51	53	50	48	46	50	41	67	51	.	.
21-Jun-94	.	4TC	CHK0+	59	.	.	.	.	.	.	.	.	.	.	.
21-Jun-94	.	4UP	CHK0+	43	63	50	47	60	57	51	53	57	47	.	.
21-Jun-94	.	2HB	CHK0+	68	53	52	61	41	50	45	40	45	44	.	.
21-Jun-94	.	2CR	CHK0+	69	49	67	49	49	57	55	47	45	43	.	.
23-Jun-94	1250	5LC	CHK0+	42	49	41	42	51	51	43	49	44	.	.	.
23-Jun-94	.	5DH	CHK0+	38	45	42	42	41	38	41	49	52	42	.	.
23-Jun-94	1455	7MC	CHK0+	55	56	56	58	61	55	51	51	52	46	.	.
25-Jun-94	1200	1WR	CHK0+	59	65	52	56	67	64	58	52	46	56	.	.
08-Jul-94	.	2HB	CHK0+	68	73	77	63	53	68	49	56	52	60	52	54
08-Jul-94	.	2HB	CHK0+	55	51	59	52	49	52	44	.	.	.	.	.
08-Jul-94	.	2CR	CHK0+	65	55	67	50	56	46	46	66	56	62	64	70
08-Jul-94	.	2CR	CHK0+	52	64	62	71	72	75	67	64	67	65	67	62
08-Jul-94	.	2CR	CHK0+	66	62	66	.	.	.	.	.	.	.	.	.
09-Jul-94	.	5DH	CHK0+	52	42	45	50	43	32	41	43	60	41	42	60
09-Jul-94	.	5DH	CHK0+	45	31	33	41	56	46	45	50	57	52	32	46
09-Jul-94	.	5DH	CHK0+	53	45	46	43	.	.	.	.	.	.	.	45
09-Jul-94	.	SDH	SOK0+	31	.	.	.	.	.	.	.	.	.	.	.
09-Jul-94	.	7MC	CHK0+	47	45	47	48	46	47	52	46	50	46	44	52
09-Jul-94	.	7MC	CHK0+	47	45	47	48	46	47	52	46	50	46	44	48

Table 13. Length data of salmonid juveniles from Chilcotin watershed beach seining 1994.

DATE	TIME	SITE	SPECIES	LENGTH (mm)															
				49	50	40	48	50	42	53	50	32	46	45	45	40			
09-Jul-94	.	7MC	CHK0+	49	50	40	48	.	.	.	.	.	.	.	.	.	.	.	.
09-Jul-94	.	7MC	CHK0+	48	38	46	51	.	.	.	.	.	.	.	.	.	.	.	.
11-Jul-94	.	4UP	CHK0+	75	80	77	69	61	68	60	79	61	62	.	.	.	.	.	.
11-Jul-94	.	6CN	CHK0+	68	70	69	68	58	65	69	57	66	62	.	.	.	.	.	.
11-Jul-94	.	6UR	CHK0+	64	65	71	71	58	54	55	58	62	61	.	.	.	.	.	.
12-Jul-94	945	3BC	CHK0+	81	75	71	82	75	73	76	72	75	53	.	.	.	.	.	.
12-Jul-94	1135	1WR	CHK0+	64	68	47	67	68	63	62	68	49	65	.	.	.	.	.	.
15-Sep-94	1100	2HB	CHK0+	75	58	73	83	87	74	77	70	73	74	64	76	75	.	.	.
15-Sep-94	1100	2HB	CHK0+	76	72	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-Sep-94	1200	2CR	CHK0+	72	74	90	88	75	70	73	71	79	72	64	74	76	.	.	.
15-Sep-94	1200	2CR	CHK0+	67	74	66	79	82	73	82	63	78	82	79	80	69	.	.	.
15-Sep-94	1200	2CR	CHK0+	77	82	79	65	.	.	.	.	.	.	.	.	.	.	.	.
15-Sep-94	1400	3AS	CHK0+	72	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-Sep-94	1440	3LR	CHK0+	75	73	70	65	79	64	74	72	61	75	75	72	78	.	.	.
15-Sep-94	1440	3LR	CHK0+	68	68	76	71	64	68	69	72	61	80	76	69	72	.	.	.
15-Sep-94	1440	3LR	CHK0+	64	65	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-Sep-94	1520	3BC	CHK0+	71	64	59	68	72	60	73	79	65	64	72	63	53	.	.	.
15-Sep-94	1520	3BC	CHK0+	72	62	67	70	59	.	.	.	.	.	.	.	.	.	.	.
15-Sep-94	1605	6CN	CHK0+	87	68	78	.	.	.	.	.	.	.	.	.	.	.	.	.
16-Sep-94	1135	5DH	CHK0+	76	69	62	67	68	65	54	.	.	.	.	.	.	.	.	.
16-Sep-94	1250	7MC	CHK0+	77	69	74	76	64	67	57	78	79	74	76	70	72	.	.	.
16-Sep-94	1250	7MC	CHK0+	64	71	71	87	65	68	.	.	.	.	.	.	.	.	.	.
16-Sep-94	1500	4TC	CHK0+	67	65	68	67	.	.	.	.	.	.	.	.	.	.	.	.
16-Sep-94	1550	4UP	CHK0+	72	81	73	75	64	78	70	78	63	72	74	66	79	.	.	.
16-Sep-94	1550	4UP	CHK0+	88	68	76	77	78	65	73	77	69	75	67	68	64	.	.	.
16-Sep-94	1550	4UP	CHK0+	66	77	67	68	64	66	77	67	64	.	.	.	.	.	.	.
17-Sep-94	940	1WR	CHK0+	77	72	76	67	78	75	76	69	72	76	73	66	76	.	.	.
17-Sep-94	940	1WR	CHK0+	67	81	66	82	73	88	66	67	74	86	78	88	72	.	.	.
17-Sep-94	940	1WR	CHK0+	64	61	72	74	.	.	.	.	.	.	.	.	.	.	.	.
12-Oct-94	930	4UP	CHK0+	72	65	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1300	7MC	CHK0+	85	82	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1930	7MC	CHK0+	81	82	88	90	83	80	90	78	76	82	94	86	78	.	.	.
12-Oct-94	1930	7MC	CHK0+	91	68	77	88	87	84	90	90	83	70	85	79	90	.	.	.
12-Oct-94	1930	7MC	CHK0+	85	77	88	70	84	77	82	76	70	87	73	84	84	.	.	.
12-Oct-94	1930	7MC	CHK0+	72	85	83	68	72	83	76	.	.	.	.	.	.	.	.	.
12-Oct-94	2100	SHC	CHK0+	80	83	74	79	78	79	90	87	82	79	78	77	76	.	.	.
13-Oct-94	1830	3LR	CHK0+	68	78	85	87	79	80	84	77	82	69	87	87	75	67	.	.
13-Oct-94	1830	3LR	CHK0+	79	71	83	72	77	76	81	86	.	.	.	.	.	.	.	.
13-Oct-94	2100	2CR	CHK0+	71	78	68	80	77	84	84	88	80	83	78	78	75	75	75	.
13-Oct-94	2100	2CR	CHK0+	66	77	81	80	88	70	71	77	69	76	67	69	68	68	68	.
13-Oct-94	2100	2CR	CHK0+	82	73	80	86	81	76	69	78	68	83	71	80	72	.	.	.
13-Oct-94	2145	2HB	CHK0+	85	67	80	79	85	75	73	63	71	68	76	68	74	.	.	.
13-Oct-94	2145	2HB	CHK0+	62	72	75	80	77	69	75	78	67	71	85	71	62	.	.	.

Table 14. Weight data of salmonid juveniles from Chilcotin watershed beach seining 1994.

DATE	TIME	SITE	SPECIES	WEIGHTS (g)									
23-Apr-94	.	2HB	CHK0+	0.50	0.40	0.90							
23-Apr-94	.	2HB	CHK1+	3.80	5.80	5.60	8.30	.	.	.	.	.	.
23-Apr-94	.	2HB	RBT	1.80	.	.	.	.	.	.	.	.	.
25-Apr-94	.	3AS	CHK0+	0.46	0.52	0.72	0.46	0.45	0.29	0.73	0.43	0.44	0.49
25-Apr-94	.	3AS	CHK0+	0.54	.	.	.	.	.	.	.	.	.
25-Apr-94	1520	1WR	CHK0+	0.65	0.55	0.61	0.95	.	.	.	.	.	.
25-Apr-94	1520	1WR	CHK1+	6.72	5.05	6.35	4.85	4.68	7.40	6.49	6.35	8.16	.
29-Apr-94	1800	1AF	CHK1+	5.73	4.28	4.31	6.65	6.23	4.67	5.39	5.85	6.52	8.02
29-Apr-94	1800	1AF	CHK1+	3.83	11.06	5.86	10.88	5.78	6.02	.	.	.	.
30-Apr-94	1430	3BC	CHK0+	0.48	0.55	0.45	0.20	0.62	0.48	0.48	0.55	0.46	0.62
30-Apr-94	1430	3BC	CHK1+	4.79	3.90	3.86	8.06	4.68	5.50	.	.	.	.
30-Apr-94	1600	3LR	CHK0+	0.42	.	.	.	.	.	.	.	.	.
30-Apr-94	1600	3LR	CHK1+	5.58	.	.	.	.	.	.	.	.	.
01-May-94	1425	2HB	CHK0+	0.94	0.67	0.56	0.48	1.16	2.04	0.71	0.57	0.50	1.73
01-May-94	1425	2HB	CHK0+	0.65	.	.	.	.	.	.	.	.	.
01-May-94	1425	2HB	CHK1+	6.11	7.70	5.60	5.12	6.60	6.68	5.85	7.19	5.84	.
04-May-94	1340	5LC	CHK0+	0.46	0.44	0.45	0.43	0.31	0.48	0.61	0.46	0.44	0.38
04-May-94	1440	5HC	CHK0+	0.69	0.55	0.56	0.49	0.60	0.61	0.47	0.78	0.53	0.37
04-May-94	1440	5HC	CHK1+	8.60	8.50	.	.	.	.	.	.	.	.
04-May-94	1700	5DH	CHK0+	0.40	0.49	1.12	0.49	0.59	0.48	0.42	0.41	0.42	0.50
08-May-94	1710	4TC	CHK0+	1.31	0.91	0.57	0.91	1.13	0.57	0.55	0.57	0.77	0.87
09-May-94	1500	4UP	CHK0+	0.79	0.74	0.84	0.57	0.65	0.70	0.69	0.48	0.42	0.41
09-May-94	1500	4UP	CHK1+	9.40	5.80	11.60	7.00	3.90	4.30	5.10	9.00	6.20	7.80
11-May-94	.	6UR	CHK0+	0.30	0.51	0.50	.	.	.	.	.	.	.
11-May-94	.	6CN	CHK0+	0.33	0.31	0.37	0.35	0.34	0.17	0.46	0.37	0.46	0.36
11-May-94	.	6CN	CHK1+	6.20	.	.	.	.	.	.	.	.	.
11-May-94	.	3AS	CHK0+	0.69	0.91	1.06	0.50	0.45	0.65	0.62	.	.	.
11-May-94	.	3AS	CHK1+	5.00	.	.	.	.	.	.	.	.	.
13-May-94	1230	1WR	CHK0+	0.86	1.00	0.56	0.77	1.25	0.82	0.83	0.62	0.61	0.48
13-May-94	1230	1WR	CHK1+	5.60	3.50	4.20	6.50	4.80	6.00	3.50	3.50	3.50	2.90
13-May-94	1430	2HB	CHK0+	0.36	0.47	0.56	0.85	0.42	0.74	0.36	0.37	0.58	0.34
13-May-94	1430	2HB	CHK1+	9.80	3.10	8.00	6.80	8.90	10.20	5.30	6.20	6.20	4.80
13-May-94	1630	2CR	CHK0+	0.77	0.34	1.60	1.20	0.49	0.58	0.54	1.10	0.50	0.95
13-May-94	1630	2CR	CHK1+	5.90	6.70	6.40	8.10	6.00	5.90	4.40	9.30	4.80	.
13-May-94	1930	1AF	CHK0+	0.79	0.86	0.61	0.91	1.30	0.45	0.77	1.20	1.30	.
13-May-94	1930	1AF	CHK1+	7.90	14.00	7.90	11.20	11.20	6.20	8.20	.	.	.
14-May-94	1442	3AS	CHK0+	0.39	0.47	0.22	0.47	0.62	0.39	0.32	0.66	0.53	0.35
17-May-94	1130	5LC	CHK0+	0.53	0.42	0.48	0.62	0.61	0.36	0.64	.	.	.
17-May-94	1210	5HC	CHK0+	0.61	0.49	0.46	0.56	0.38	1.05	0.79	0.78	0.63	0.69
17-May-94	1315	5DH	CHK0+	1.14	0.44	0.62	0.45	0.97	0.56	0.49	0.90	0.40	0.55
17-May-94	1400	7MC	CHK0+	0.45	0.78	1.08	0.95	0.53	0.38	0.53	1.10	0.61	0.77
18-May-94	1330	3LR	CHK0+	0.42	0.96	0.47	0.42	0.88	0.54	0.27	0.43	0.52	0.43
18-May-94	1430	3BC	CHK0+	0.56	0.61	0.48	0.47	0.85	0.53	0.28	0.51	0.73	0.69
18-May-94	1430	3BC	CHK1+	5.40	4.00	6.00	6.40	7.40	5.40	.	.	.	.
22-May-94	1500	4TC	CHK0+	1.56	0.66	0.66	1.17	0.42	0.26	0.40	1.39	0.72	0.72
22-May-94	1600	4UP	CHK0+	0.53	0.43	0.80	0.42	.	.	.	.	.	.
22-May-94	1600	4UP	CHK1+	5.90	13.40	.	.	.	.	.	.	.	.
25-May-94	.	6CN	CHK0+	0.48	0.52	0.92	0.72	0.60	0.99	1.20	0.93	0.53	0.44
25-May-94	.	6CN	CHK1+	11.30	9.70	20.10	13.70	.	.	.	.	.	.
25-May-94	1500	6UR	CHK0+	0.37	0.60	0.50	0.75	0.55	0.85	0.44	1.15	1.02	0.38
26-May-94	1100	1AF	CHK0+	0.46	1.00	.	.	.	.	.	.	.	.
26-May-94	1220	1WR	CHK0+	1.38	0.48	1.03	1.09	1.32	0.89	1.30	0.82	1.13	0.61

Table 14. Weight data of salmonid juveniles from Chilcotin watershed beach seining 1994.

DATE	TIME	SITE	SPECIES	WEIGHTS (g)											
26-May-94	1220	1WR	CHK1+	13.80	10.20	6.50	10.90	10.20	10.50	10.40	12.40	8.00	8.70	.	.
26-May-94	1435	2HB	CHK0+	0.52	0.61	0.61	1.03	0.55	0.61	1.46	0.51	0.92	1.09	.	.
31-May-94	1225	5LC	CHK0+	0.23	0.35	0.38	0.67	0.44	0.31	0.34	0.44	0.38	0.22	.	.
31-May-94	1340	5HC	CHK0+	0.90	1.05	0.72	0.90	1.41	0.93	1.16	0.66	0.94	0.79	.	.
31-May-94	.	5DH	CHK0+	0.37	0.48	0.78	0.93	0.71	0.39	0.46	0.72	0.85	0.61	.	.
31-May-94	.	7MC	CHK0+	1.45	0.98	0.68	1.11	1.57	1.26	0.45	0.66	0.91	0.60	.	.
02-Jun-94	.	3AS	CHK0+	0.62	0.60	1.02	0.79	2.00	0.69	0.88	0.51	1.02	0.81	.	.
02-Jun-94	1450	3LR	CHK0+	1.33	0.66	0.90	0.54	0.49	0.99	0.51	0.87	0.58	0.40	.	.
02-Jun-94	.	3BC	CHK0+	0.96	0.91	1.78	1.34	0.94	0.31	0.72	1.24	0.84	0.74	.	.
10-Jun-94	1450	2CR	CHK0+	1.10	0.67	0.97	1.00	0.98	0.87	1.30	2.90	1.10	0.83	.	.
10-Jun-94	1450	2CR	CHK0+	0.50	.	.	.	.	.	.	.	.	.	.	.
10-Jun-94	1550	2HB	CHK0+	2.80	1.20	0.60	0.90	0.98	1.30	2.80	0.90	1.00	0.60	.	.
10-Jun-94	1550	2HB	CHK0+	1.80	.	.	.	.	.	.	.	.	.	.	.
10-Jun-94	1700	1WR	CHK0+	0.83	1.00	2.80	0.70	1.50	0.90	0.85	0.92	2.30	1.70	.	.
10-Jun-94	1700	1WR	CHK0+	0.25	0.95	0.95	3.20	.	.	.	.	.	.	.	.
10-Jun-94	1920	1AF	CHK0+	2.30	4.30	3.60	2.20	2.30	2.20	.	.	.	.	.	.
12-Jun-94	1600	3BC	CHK0+	1.70	1.20	0.73	0.93	0.66	1.00	1.19	0.76	0.80	0.93	.	.
12-Jun-94	1600	3BC	CHK0+	0.75	.	1.40	0.51	1.20	.	.	.	.	.	.	.
12-Jun-94	1640	3AS	CHK0+	0.77	1.50	1.20	1.50	2.00	1.90	0.88	2.60	1.50	3.90	.	.
12-Jun-94	1640	3AS	CHK0+	1.10	0.48	1.20	0.95	0.95	0.85	0.91	2.00	0.72	0.77	.	.
12-Jun-94	1640	3AS	CHK0+	0.96	1.40	.	.	.	.	.	.	.	.	.	.
12-Jun-94	1730	6UR	CHK0+	1.70	2.20	1.40	1.30	7.30	0.93	0.85	0.73	1.60	0.74	.	.
12-Jun-94	1730	6UR	CHK0+	0.85	1.90	0.92	1.20	2.40	3.20	0.93	2.10	0.90	1.30	.	.
12-Jun-94	1730	6UR	CHK0+	1.00	.	.	.	.	.	.	.	.	.	.	.
13-Jun-94	.	5DH	CHK0+	0.68	0.68	0.72	0.68	0.83	0.80	0.93	1.20	0.99	0.75	.	.
13-Jun-94	.	5DH	CHK0+	0.88	0.78	0.66	0.82	0.66	0.97	1.00	.	.	.	.	.
13-Jun-94	1620	5HC	CHK0+	0.53	0.91	0.64	0.78	0.48	0.35	0.90	0.65	0.73	0.62	.	.
13-Jun-94	1620	5HC	CHK0+	0.85	0.70	.	.	.	.	.	.	.	.	.	.
13-Jun-94	1745	7MC	CHK0+	1.40	0.55	0.61	0.97	0.62	0.63	1.40	0.53	1.20	0.39	.	.
13-Jun-94	1745	7MC	CHK0+	0.54	1.20	0.73	.	.	.	.	.	.	.	.	.
20-Jun-94	1620	6UR	CHK0+	0.90	2.19	1.36	1.88	1.90	1.45	1.36	1.13	1.25	1.67	.	.
20-Jun-94	.	6CN	CHK0+	1.02	2.51	0.92	1.83	2.40	0.76	0.74	2.01	1.12	0.91	.	.
20-Jun-94	.	3AS	CHK0+	1.67	1.06	1.00	1.47	0.90	0.84	1.12	0.84	2.17	2.08	.	.
21-Jun-94	1113	3BC	CHK0+	0.95	2.02	1.55	1.24	1.15	0.97	1.28	0.80	3.29	1.30	.	.
21-Jun-94	.	4TC	CHK0+	1.84	.	.	.	.	.	.	.	.	.	.	.
21-Jun-94	.	4UP	CHK0+	0.77	2.78	1.36	1.10	2.23	2.04	1.40	1.39	1.85	1.00	.	.
21-Jun-94	.	2HB	CHK0+	4.80	2.11	1.48	2.50	0.95	1.31	0.94	0.73	0.86	0.88	.	.
21-Jun-94	.	2CR	CHK0+	3.70	1.20	3.90	1.07	1.22	2.07	1.64	1.06	0.86	0.80	.	.
23-Jun-94	1250	5LC	CHK0+	0.64	1.04	0.69	0.65	1.34	1.23	0.75	1.25	0.88	.	.	.
23-Jun-94	.	5DH	CHK0+	0.58	0.93	0.78	0.64	0.64	0.62	0.69	1.12	1.57	0.71	.	.
23-Jun-94	1455	7MC	CHK0+	2.08	1.80	1.78	2.34	2.58	1.99	1.45	1.39	1.52	0.96	.	.
25-Jun-94	1200	1WR	CHK0+	0.81	3.19	1.61	2.35	4.05	3.21	2.29	1.75	1.25	1.82	.	.
08-Jul-94	.	2HB	CHK0+	3.30	5.10	5.30	2.80	1.90	3.90	1.20	2.30	2.30	2.30	.	.
08-Jul-94	.	2HB	CHK0+	2.20	1.90	1.40	1.80	1.50	2.50	1.80	1.30	2.20	0.85	.	.
08-Jul-94	.	2CR	CHK0+	3.20	2.00	3.70	1.50	2.00	1.10	1.30	3.40	2.00	2.90	.	.
08-Jul-94	.	2CR	CHK0+	3.40	4.30	3.45	1.80	3.10	3.00	4.20	4.30	5.30	3.20	.	.
08-Jul-94	.	2CR	CHK0+	2.80	3.40	3.00	3.60	2.50	3.50	3.30	2.80	3.40	1.75	.	.
09-Jul-94	.	5DH	CHK0+	1.75	1.13	1.04	1.64	0.99	0.42	0.76	1.45	3.11	1.23	.	.
09-Jul-94	.	5DH	CHK0+	1.25	2.23	1.00	1.16	0.44	1.44	1.29	2.25	1.21	1.22	.	.
09-Jul-94	.	5DH	CHK0+	1.50	2.48	1.76	0.32	1.40	1.13	2.00	1.20	1.40	0.83	.	.
09-Jul-94	.	5DH	SOK0+	0.43	.	.	.	.	.	.	.	.	.	.	.
11-Jul-94	.	4UP	CHK0+	5.05	5.93	4.10	3.69	2.46	3.86	2.46	3.49	2.77	2.51	.	.

Table 14. Weight data of salmonid juveniles from Chilcotin watershed beach seining 1994.

DATE	TIME	SITE	SPECIES	WEIGHTS (g)											
11-Jul-94	.	6CN	CHK0+	3.30	4.03	3.73	3.78	2.31	3.45	4.11	2.08	3.33	2.81	.	.
11-Jul-94	.	6UR	CHK0+	2.74	3.06	4.40	4.43	2.61	1.80	1.92	2.28	2.71	2.54	.	.
12-Jul-94	945	3BC	CHK0+	6.20	5.00	4.30	6.90	5.30	4.40	5.30	4.40	5.10	1.80	.	.
12-Jul-94	1135	1WR	CHK0+	2.80	4.10	1.20	3.60	3.80	2.70	3.10	3.90	1.30	3.60	.	.
15-Sep-94	1100	2HB	CHK0+	5.00	2.30	4.70	6.90	8.50	4.40	4.80	4.20	4.70	4.70	.	.
15-Sep-94	1100	2HB	CHK0+	3.20	5.40	4.30	5.40	.	.	.	.	.	.	.	.
15-Sep-94	1200	2CR	CHK0+	4.70	4.80	8.50	8.30	5.20	3.90	4.10	4.00	5.10	4.70	.	.
15-Sep-94	1200	2CR	CHK0+	3.20	4.90	5.10	3.60	4.90	3.30	6.20	6.50	4.40	6.10	.	.
15-Sep-94	1200	2CR	CHK0+	3.10	5.70	6.10	6.20	5.80	3.90	5.50	6.20	6.20	2.90	.	.
15-Sep-94	1400	3AS	CHK0+	4.70	4.70	4.70	3.50	6.40	2.90	4.60	.	.	.	.	.
16-Sep-94	1135	5DH	CHK0+	5.30	3.40	2.80	3.30	3.80	3.30	1.80	.	.	.	.	.
16-Sep-94	1250	7MC	CHK0+	5.20	4.00	4.30	5.00	2.80	3.80	2.50	5.40	6.30	4.40	.	.
16-Sep-94	1250	7MC	CHK0+	5.20	4.30	4.50	3.20	4.30	4.60	7.60	3.30	3.40	.	.	.
16-Sep-94	1500	4TC	CHK0+	3.50	3.30	3.80	3.40	.	.	.	.	.	.	.	.
16-Sep-94	1550	4UP	CHK0+	4.20	5.80	4.60	4.80	3.20	5.50	4.00	5.30	2.80	5.30	.	.
16-Sep-94	1550	4UP	CHK0+	4.60	2.90	5.20	6.90	3.70	.	.	.	.	.	.	.
12-Oct-94	930	4UP	CHK0+	4.60	3.00	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1300	7MC	CHK0+	8.00	6.70	.	.	.	.	.	.	.	.	.	.
12-Oct-94	1930	7MC	CHK0+	7.10	7.00	8.90	10.30	7.00	6.50	8.70	6.40	5.10	7.00	.	.
12-Oct-94	1930	7MC	CHK0+	10.20	8.10	6.10	9.50	3.80	6.00	8.40	8.10	7.60	10.00	.	.
12-Oct-94	1930	7MC	CHK0+	9.80	6.80	5.90	7.50	6.20	8.70	7.40	6.00	8.40	4.00	.	.
12-Oct-94	1930	7MC	CHK0+	6.90	6.20	6.50	5.40	3.80	8.90	5.50	7.20	7.50	4.50	.	.
12-Oct-94	1930	7MC	CHK0+	8.00	7.60	3.30	5.00	7.10	6.60	.	.	.	.	.	.
12-Oct-94	2100	5HC	CHK0+	5.20	6.70	4.80	5.40	5.20	5.50	7.60	7.80	6.40	5.70	.	.
12-Oct-94	2100	5HC	CHK0+	5.10	5.20	4.80	.	.	.	.	.	.	.	.	.
13-Oct-94	1830	3LR	CHK0+	3.90	5.40	6.40	7.90	5.80	6.00	6.50	6.50	3.90	7.60	.	.
13-Oct-94	1830	3LR	CHK0+	4.60	3.20	6.50	4.00	6.50	3.90	5.30	5.40	6.80	8.10	.	.
13-Oct-94	2100	2CR	CHK0+	4.30	5.60	3.30	6.20	5.10	7.40	6.80	8.50	5.50	6.30	.	.
13-Oct-94	2100	2CR	CHK0+	5.30	5.50	4.70	3.30	5.30	6.20	5.40	8.40	3.80	5.00	.	.
13-Oct-94	2100	2CR	CHK0+	3.70	4.80	3.20	3.60	3.30	6.40	3.90	5.20	7.70	6.60	.	.
13-Oct-94	2100	2CR	CHK0+	5.20	3.60	5.30	3.50	6.60	3.90	5.80	.	.	.	.	.
13-Oct-94	2145	2HB	CHK0+	7.10	4.30	5.70	5.30	6.90	4.50	4.50	2.80	3.90	3.70	.	.
13-Oct-94	2145	2HB	CHK0+	3.90	3.50	4.70	2.70	4.30	4.60	5.00	5.20	3.60	4.80	.	.
13-Oct-94	2145	2HB	CHK0+	5.40	3.30	4.30	7.20	3.80	2.80	.	.	.	.	.	.